

# CAPACITORS



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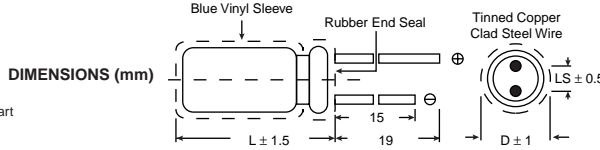
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# Radial Aluminum Electrolytic Capacitors

### Specifications:

- Operating temperature range: 10V to 250V: -40°C to +85°C; 350V to 450V: -25°C to +85°C
- Dissipation factor: (Tan δ, @ 20°C, 120Hz)
- (Tangent of the loss angle): see chart
- Tolerance: ±20%



WVDC	10	16	25	35	50	63	100	160	250	350	450
DF (tanδ)	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.17	0.20	0.25

### 10 VOLT (13 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL25V1.0	1.0	5 x 11	2.0	.07	.06	.05
140-XRL16V2.2	2.2	5 x 11	2.0	.07	.06	.05
140-XRL16V4.7	4.7	5 x 11	2.0	.07	.06	.05
140-XRL10V10	10	5 x 11	2.0	.07	.06	.05
140-XRL10V47	47	5 x 11	2.0	.07	.06	.05
140-XRL10V100	100	5 x 11	2.0	.08	.07	.06
140-XRL10V220	220	6.3 x 11	2.5	.08	.07	.06
140-XRL10V330	330	8 x 11	3.5	.12	.08	.07
140-XRL10V470	470	8 x 11	3.5	.18	.12	.11
140-XRL10V1000	1000	10 x 13	5.0	.25	.22	.20
140-XRL10V2200	2200	13 x 21	5.0	.52	.39	.30
140-XRL10V3300	3300	13 x 26	5.0	.67	.57	.47
140-XRL10V4700	4700	16 x 27	7.5	.86	.67	.58
140-XRL10V6800	6800	16 x 36	7.5	1.30	1.10	.98
140-XRL10V10000	10000	18 x 41	7.5	1.74	1.65	1.50

### 35 VOLT (44 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL50V0.22	.22	5 x 11	2.0	.07	.06	.05
140-XRL50V.47	.47	5 x 11	2.0	.07	.06	.05
140-XRL50V1.0	1.0	5 x 11	2.0	.07	.06	.05
140-XRL50V2.2	2.2	5 x 11	2.0	.07	.06	.05
140-XRL50V3.3	3.3	5 x 11	2.0	.07	.06	.05
140-XRL35V4.7	4.7	5 x 11	2.0	.07	.06	.05
140-XRL35V10	10	5 x 11	2.0	.07	.06	.05
140-XRL35V22	22	5 x 11	2.0	.08	.07	.06
140-XRL35V33	33	6.3 x 11	2.5	.08	.07	.06
140-XRL35V47	47	6.3 x 11	2.5	.08	.07	.06
140-XRL35V100	100	8 x 11	3.5	.17	.11	.10
140-XRL35V220	220	10 x 13	5.0	.21	.17	.16
140-XRL35V330	330	10 x 20	5.0	.24	.21	.19
140-XRL35V470	470	10 x 20	5.0	.39	.32	.25
140-XRL35V680	680	13 x 26	5.0	.59	.46	.37
140-XRL35V1000	1000	13 x 26	5.0	.68	.58	.48
140-XRL35V2200	2200	16 x 32	7.5	1.32	1.15	.96
140-XRL35V3300	3300	18 x 37	7.5	1.81	1.75	1.50
140-XRL35V4700	4700	22 x 36	10	2.71	2.01	1.62
140-XRL35V6800	6800	22 x 41	10	4.41	3.67	3.34

### 100 VOLT (125 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL100V0.1	.1	5 x 11	2.0	.07	.06	.05
140-XRL100V0.47	.47	5 x 11	2.0	.07	.06	.05
140-XRL100V1.0	1.0	5 x 11	2.0	.07	.06	.05
140-XRL100V2.2	2.2	5 x 11	2.0	.07	.06	.05
140-XRL100V3.3	3.3	5 x 11	2.0	.07	.06	.05
140-XRL100V4.7	4.7	5 x 11	2.0	.07	.06	.05
140-XRL100V10	10	6.3 x 11	2.5	.12	.08	.07
140-XRL100V22	22	8 x 11	3.5	.18	.12	.11
140-XRL100V33	33	10 x 16	5.0	.22	.19	.17
140-XRL100V47	47	10 x 16	5.0	.22	.19	.17
140-XRL100V100	100	10 x 20	5.0	.59	.46	.37
140-XRL100V220	220	13 x 21	5.0	1.04	.85	.70
140-XRL100V330	330	16 x 32	7.5	1.22	.96	.92
140-XRL100V470	470	18 x 37	7.5	1.57	1.17	.96

### 16 VOLT (20 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL50V0.22	.22	5 x 11	2.0	.07	.06	.05
140-XRL25V0.47	.47	5 x 11	2.0	.07	.06	.05
140-XRL25V1.0	1.0	5 x 11	2.0	.07	.06	.05
140-XRL16V2.2	2.2	5 x 11	2.0	.07	.06	.05
140-XRL16V3.3	3.3	5 x 11	2.0	.07	.06	.05
140-XRL16V4.7	4.7	5 x 11	2.0	.07	.06	.05
140-XRL16V10	10	5 x 11	2.0	.07	.06	.05
140-XRL16V22	22	5 x 11	2.0	.07	.06	.05
140-XRL16V33	33	5 x 11	2.0	.07	.06	.05
140-XRL16V47	47	5 x 11	2.0	.07	.06	.05
140-XRL16V100	100	6.3 x 11	2.5	.12	.08	.07
140-XRL16V220	220	8 x 11	3.5	.14	.10	.09
140-XRL16V330	330	8 x 11	3.5	.18	.12	.11
140-XRL16V470	470	10 x 13	5.0	.22	.19	.17
140-XRL16V680	680	10 x 16	5.0	.25	.22	.20
140-XRL16V1000	1000	10 x 16	5.0	.39	.32	.25
140-XRL16V1500	1500	13 x 21	5.0	.59	.46	.37
140-XRL16V2200	2200	13 x 21	5.0	.68	.58	.48
140-XRL16V3300	3300	16 x 27	7.5	.93	.74	.65
140-XRL16V4700	4700	16 x 32	7.5	1.32	1.15	1.06
140-XRL16V6800	6800	16 x 32	7.5	1.96	1.78	1.46
140-XRL16V10000	10000	22 x 41	10	2.83	2.10	1.72

### 50 VOLT (63 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL50V0.22	.22	5 x 11	2.0	.07	.06	.05
140-XRL50V.47	.47	5 x 11	2.0	.07	.06	.05
140-XRL50V1.0	1.0	5 x 11	2.0	.07	.06	.05
140-XRL50V2.2	2.2	5 x 11	2.0	.07	.06	.05
140-XRL50V3.3	3.3	5 x 11	2.0	.07	.06	.05
140-XRL50V4.7	4.7	5 x 11	2.0	.07	.06	.05
140-XRL50V10	10	5 x 11	2.0	.07	.06	.05
140-XRL50V15	15	5 x 11	2.0	.07	.06	.05
140-XRL50V22	22	6.3 x 11	2.5	.08	.07	.06
140-XRL50V33	33	6.3 x 11	2.5	.08	.07	.06
140-XRL50V47	47	8 x 11	3.5	.12	.08	.07
140-XRL50V100	100	8 x 11	3.5	.19	.13	.12
140-XRL50V220	220	10 x 16	5.0	.30	.25	.22
140-XRL50V330	330	13 x 21	5.0	.39	.32	.25
140-XRL50V470	470	13 x 21	5.0	.52	.39	.30
140-XRL50V1000	1000	16 x 27	7.5	.98	.79	.69
140-XRL50V2200	2200	18 x 41	7.5	2.10	1.60	1.32
140-XRL50V3300	3300	22 x 41	10	3.52	2.74	2.19
140-XRL50V4700	4700	25 x 41	12.5	4.38	3.65	3.51

### 63 VOLT (79 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL63V1.0	1.0	5 x 11	2.0	.07	.06	.05
140-XRL63V2.2	2.2	5 x 11	2.0	.07	.06	.05
140-XRL63V4.7	4.7	5 x 11	2.0	.07	.06	.05
140-XRL63V6.8	6.8	5 x 11	2.0	.07	.06	.05
140-XRL63V10	10	5 x 11	2.0	.07	.06	.05
140-XRL63V22	22	6.3 x 11	2.5	.08	.07	.06
140-XRL63V33	33	8 x 11	3.5	.12	.08	.07
140-XRL63V47	47	8 x 11	3.5	.17	.11	.10
140-XRL63V68	68	10 x 16	5.0	.19	.13	.12
140-XRL63V100	100	10 x 13	5.0	.25	.22	.20
140-XRL63V220	220	10 x 20	5.0	.42	.34	.28
140-XRL63V470	470	16 x 27	7.5	.84	.63	.54
140-XRL63V1000	1000	16 x 32	7.5	1.57	1.17	.96
140-XRL63V2200	2200	22 x 41	10	3.21	2.67	2.43

### 250 VOLT (300 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL250V1.0	1.0	6.3 x 11	2.5	.20	.14	.13
140-XRL250V2.2	2.2	8 x 13	3.5	.20	.14	.13
140-XRL250V3.3	3.3	10 x 13	5.0	.24	.21	.19
140-XRL250V4.7	4.7	8 x 14	5.0	.24	.21	.19
140-XRL250V6.8	6.8	10 x 16	5.0	.30	.25	.22
140-XRL250V10	10	10 x 20	5.0	.37	.29	.24
140-XRL250V22	22	13 x 21	5.0	.65	.56	.45
140-XRL250V33	33	13 x 26	5.0	.82	.60	.51
140-XRL250V47	47	16 x 26	7.5	.93	.74	.64
140-XRL250V100	100	16 x 36	7.5	1.85	1.25	1.18
140-XRL250V220	220	22 x 41	10	4.41	3.68	3.55

### 350 VOLT (400 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL350V1.0	1.0	8 x 13	3.5	.21	.17	.16
140-XRL350V2.2	2.2	10 x 12	5.0	.21	.17	.16
140-XRL350V3.3	3.3	10 x 16	5.0	.30	.25	.22
140-XRL350V4.7	4.7	10 x 20	5.0	.36	.27	.23
140-XRL350V10	10	13 x 21	5.0	.61	.39	.35
140-XRL350V22	22	13 x 26	5.0	.86	.67	.58
140-XRL350V47	47	16 x 33	7.5	1.85	1.25	1.15
140-XRL350V100	100	22 x 41	10	2.94	2.51	2.09

### 450 VOLT (500 Volt Surge)

For quantities greater than listed, call for quote.

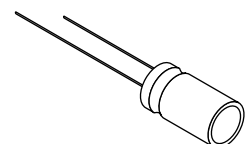
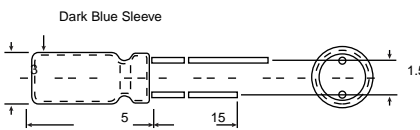
MOUSER STOCK NO.	Value (µF)	Case DxL (mm) Max.	LS (mm)	Price Each		
				1	10	100
140-XRL450V1.0	1.0	8 x 12	5.0	.25	.18	.15
140-XRL450V2.2	2.2	10 x 15	5.0	.30	.25	.22
140-XRL450V3.3	3.3	10 x 20	5.0	.61	.39	.35
140-XRL450V4.7	4.7	13 x 21	5.0	.80	.58	.48
140-XRL450V10	10	13 x 26	5.0	.82	.60	.51
140-XRL450V22	22	16 x 26	7.5	1.56	1.16	.96
140-XRL450V47	47	22 x 41	10	2.33	2.12	1.92
140-XRL450V100	100	25 x 50	12.5	4.92	4.08	3.71

## 3mm x 5mm ULTRA-MINIATURE ELECTROLYTIC CAPACITORS

### Specifications:

- Operating temperature range: -40°C to +85°C
- Capacitance tolerance: ±20% (@ 20°C, 120Hz)
- Leakage current: I = 0.01 CV or 3 (µA), whichever is greater

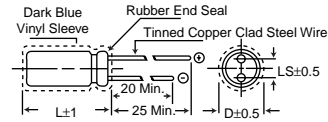
DIMENSIONS (mm)



## SUB-MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

- Meets tight board space requirements
- Capacitance tolerance:  $\pm 20\%$
- Operating temperature range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

- DC leakage current: (after 3 minutes application of DC working voltage at  $25^{\circ}\text{C}$ )  $I = 0.02\text{CV} + 3\mu\text{A max}$



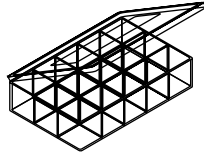
**DIMENSIONS (mm)**

### 10 Volt (13V Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-MLRL50V.1	.1	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.22	.22	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.33	.33	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.47	.47	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V1.0	1.0	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V2.2	2.2	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V3.3	3.3	4 x 7	1.5	.30	.15	.13	.12
140-MLRL35V4.7	4.7	4 x 7	1.5	.30	.15	.13	.12
140-MLRL16V10	10	4 x 7	1.5	.39	.20	.18	.16
140-MLRL10V22	22	4 x 7	1.5	.30	.15	.13	.12
140-MLRL10V33	33	4 x 7	1.5	.30	.15	.13	.12
140-MLRL10V47	47	5 x 7	2.0	.39	.20	.18	.16
140-MLRL10V100	100	6.3 x 7	2.5	.39	.20	.18	.16
140-MLRL10V220	220	8 x 9	3.5	.39	.20	.18	.16

### Sub-Minature Electrolytic Capacitor Kit



- Radial lead
- 150 pieces
- 15 different values
- Fully assembled and keyed for easy use

#### Contains:

10 Each: .1μF, .22μF, .33μF, .47μF, 1.0μF, 2.2μF, 3.3μF, 4.7μF, 10μF (50V), 4.7μF, 22μF (35V), 33μF (25V), 47μF, 100μF (16V), 220μF (10V)

- .1μF - 220μF
- $\pm 20\%$
- $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

MOUSER STOCK NO.	Price Each
370-140MLR-1	49.95

### 16 Volt (20V Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-MLRL50V.1	.1	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.22	.22	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.33	.33	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.47	.47	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V1.0	1.0	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V2.2	2.2	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V3.3	3.3	4 x 7	1.5	.30	.15	.13	.12
140-MLRL35V4.7	4.7	4 x 7	1.5	.30	.15	.13	.12
140-MLRL16V10	10	4 x 7	1.5	.39	.20	.18	.16
140-MLRL16V22	22	4 x 7	1.5	.39	.20	.18	.16
140-MLRL16V33	33	5 x 7	2.0	.39	.20	.18	.16
140-MLRL16V47	47	6.3 x 7	2.5	.39	.20	.18	.16
140-MLRL16V100	100	6.3 x 7	2.5	.39	.20	.18	.16

### 25 Volt (32V Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-MLRL50V.1	.1	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.22	.22	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.33	.33	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.47	.47	4 x 7	1.5	.30	.15	.13	.12

### 25 Volt (32V Surge) (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-MLRL50V1.0	1.0	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V2.2	2.2	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V3.3	3.3	4 x 7	1.5	.30	.15	.13	.12
140-MLRL35V4.7	4.7	4 x 7	1.5	.30	.15	.13	.12
140-MLRL35V10	10	5 x 7	2.0	.32	.16	.14	.13
140-MLRL35V22	22	6.3 x 7	2.5	.35	.18	.16	.15
140-MLRL25V33	33	6.3 x 7	2.5	.35	.18	.16	.15

### 35 Volt (44V Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-MLRL50V.1	.1	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.22	.22	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.33	.33	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.47	.47	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V1.0	1.0	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V2.2	2.2	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V3.3	3.3	4 x 7	1.5	.30	.15	.13	.12
140-MLRL35V4.7	4.7	4 x 7	1.5	.30	.15	.13	.12
140-MLRL35V10	10	5 x 7	2.0	.32	.16	.14	.13
140-MLRL35V22	22	6.3 x 7	2.5	.35	.18	.16	.15

### 50 Volt (63V Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-MLRL50V.1	.1	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.22	.22	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.33	.33	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V.47	.47	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V1.0	1.0	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V2.2	2.2	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V3.3	3.3	4 x 7	1.5	.30	.15	.13	.12
140-MLRL50V4.7	4.7	5 x 7	2.0	.32	.16	.14	.13
140-MLRL50V10	10	6.3 x 7	2.5	.35	.18	.16	.15

## LOW LEAKAGE CURRENT ELECTROLYTICS

### Industry Cross Reference:

Xicon LLR (LLRL)	Sprague 513D	Panasonic Z series	Mallory VTL
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### 10 Volt (13 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-LLRL50V0.47	0.47	5 x 11	2.0	.22	.11	.09	.07
140-LLRL50V1.0	1.0	5 x 11	2.0	.22	.11	.09	.07
140-LLRL50V2.2	2.2	5 x 11	2.0	.22	.11	.09	.07
140-LLRL50V3.3	3.3	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V4.7	4.7	5 x 11	2.0	.22	.11	.09	.07
140-LLRL16V10	10	5 x 11	2.0	.22	.11	.09	.07
140-LLRL10V47	47	5 x 11	2.0	.22	.11	.09	.07
140-LLRL10V100	100	6.3 x 11	2.5	.24	.12	.10	.09
140-LLRL10V220	220	8 x 11	3.5	.34	.17	.14	.12
140-LLRL10V330	330	8 x 13	3.5	.33	.22	.18	.16
140-LLRL10V470	470	10 x 13	5.0	.39	.26	.22	.18
140-LLRL10V1000	1000	10 x 20	5.0	.63	.43	.35	.29
140-LLRL10V2200	2200	13 x 21	5.0	1.02	.77	.64	.53
140-LLRL10V3300	3300	13 x 26	5.0	1.29	1.07	.92	.75
140-LLRL10V4700	4700	16 x 27	7.5	1.47	1.22	1.02	.85

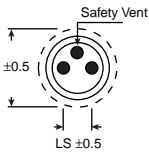
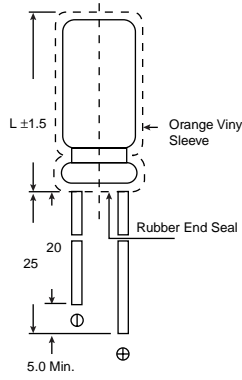
### 16 Volt (20 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-LLRL50V3.3	3.3	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V4.7	4.7	5 x 11	2.0	.22	.11	.09	.07
140-LLRL16V10	10	5 x 11	2.0	.22	.11	.09	.07
140-LLRL16V22	22	5 x 11	2.0	.20	.10	.08	.07
140-LLRL16V33	33	5 x 11	2.0	.20	.10	.08	.07
140-LLRL16V47	47	5 x 11	2.5	.24	.12	.10	.08
140-LLRL16V100	100	8 x 11	2.5	.34	.17	.14	.12
140-LLRL16V220	220	10 x 13	3.5	.35	.23	.19	.16
140-LLRL16V330	330	10 x 16	5.0	.39	.26	.22	.18
140-LLRL16V470	470	13 x 21	5.0	.49	.33	.28	.23
140-LLRL16V1000	1000	13 x 27	5.0	.77	.52	.43	.36
140-LLRL16V2200	2200	16 x 27	7.5	1.26	.84	.70	.58
140-LLRL16V3300	3300	16 x 27	7.5	1.56	1.30	1.08	.90

#### Electrical Specifications:

- DC leakage current:  $I = 0.002\text{CV}$  or  $0.4\mu\text{A}$  whichever is greater
- Operating temperature range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Capacitance tolerance:  $\pm 20\%$



**DIMENSIONS (mm)**

### 25 Volt (32 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-LLRL50V1.0	1.0	5 x 11	2.0	.22	.11	.09	.07
140-LLRL50V2.2	2.2	5 x 11	2.0	.22	.11	.09	.07
140-LLRL50V3.3	3.3	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V4.7	4.7	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V10	10	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V22	22	6.3 x 11	2.5	.24	.12	.10	.08
140-LLRL25V330	330	10 x 20	5.0	.58	.39	.32	.27
140-LLRL25V470	470	10 x 20	5.0	.70	.46	.39	.32
140-LLRL25V1000	1000	13 x 26	5.0	1.05	.81	.67	.56
140-LLRL25V2200	2200	16 x 32	7.5	1.67	1.34	1.12	.93

### 35 Volt (44 Volt Surge)

For quantities greater than listed, call for quote.

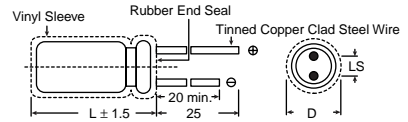
MOUSER STOCK NO.	Value (μF)	Case DxD (max.)	LS	Price Each			
				1	100	500	1000
140-LLRL50V3.3	3.3	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V4.7	4.7	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V10	10	5 x 11	2.0	.22	.11	.09	.07
140-LLRL35V22	22	6.3 x 11	2.5	.24	.12	.10	.08
140-LLRL35V33	33	6.3 x 11	2.5	.28	.14	.11	.09
140-LLRL35V47	47	8 x 11	3.5	.34	.17	.14	.12
140-LLRL35V100	100	8 x 13	3.5	.35	.23	.20	.16
140-LLRL35V220	220	10 x 16	5.0	.58	.38	.32	.27
140-LLRL35V330	330	13 x 21	5.0	.65	.50	.42	.35
140-LLRL35V470	470	13 x 26	5.0	.82	.62	.52	.43
140-LLRL35V1000	1000	16 x 27	7.5	1.18	.91	.75	.63
140-LLRL35V2200	2200	18 x 37	7.5				

105°C HIGH TEMPERATURE ELECTROLYTICS

Electrical Specifications:

- Operating temperature range: -40°C to +105°C
- DC leakage current: I=0.01CV +3µA (max.)
- Capacitance tolerance: ±20%

DIMENSIONS (mm)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case D x L (max)	LS	Price Each			
				1	10	100	500
<b>10 Volt (13 Volt Surge)</b>							
140-HTRL100V.47	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.2.2	2.2	5 x 11	2.0	.09	.07	.05	.03
140-HTRL100V.3.3	3.3	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.10	10	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.22	22	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.33	33	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.47	47	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.100	100	5 x 11	2.0	.11	.09	.07	.05
140-HTRL100V.220	220	8 x 11	3.5	.17	.15	.12	.09
140-HTRL100V.330	330	8 x 13	3.5	.24	.20	.16	.13
140-HTRL100V.470	470	10 x 13	5.0	.27	.22	.18	.14
140-HTRL100V.680	680	10 x 16	5.0	.34	.29	.24	.19
140-HTRL100V.1000	1000	10 x 20	5.0	.40	.33	.29	.22
140-HTRL100V.2200	2200	13 x 26	5.0	.71	.60	.51	.40
<b>16 Volt (20 Volt Surge)</b>							
140-HTRL100V.47	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.2.2	2.2	5 x 11	2.0	.09	.07	.05	.03
140-HTRL100V.3.3	3.3	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.10	10	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.22	22	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.33	33	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.47	47	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.100	100	5 x 11	2.0	.11	.09	.07	.05
140-HTRL100V.220	220	8 x 11	3.5	.17	.15	.12	.09
140-HTRL100V.330	330	8 x 13	3.5	.24	.20	.16	.13
140-HTRL100V.470	470	10 x 13	5.0	.27	.22	.18	.14
140-HTRL100V.680	680	10 x 20	5.0	.34	.29	.24	.19
140-HTRL100V.1000	1000	10 x 20	5.0	.40	.33	.29	.22
140-HTRL100V.2200	2200	13 x 26	5.0	.71	.60	.51	.40
140-HTRL100V.4700	4700	16 x 36	7.5	1.60	1.38	1.14	.90
<b>25 Volt (32 Volt Surge)</b>							
140-HTRL100V.47	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.2.2	2.2	5 x 11	2.0	.09	.07	.05	.03
140-HTRL100V.3.3	3.3	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.10	10	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.22	22	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.33	33	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.47	47	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.100	100	5 x 11	2.0	.11	.09	.07	.05
140-HTRL100V.220	220	8 x 11	3.5	.17	.15	.12	.09
140-HTRL100V.330	330	8 x 13	3.5	.24	.20	.16	.13
140-HTRL100V.470	470	10 x 13	5.0	.27	.22	.18	.14
140-HTRL100V.680	680	10 x 20	5.0	.34	.29	.24	.19
140-HTRL100V.1000	1000	10 x 20	5.0	.40	.33	.29	.22
140-HTRL100V.2200	2200	13 x 26	5.0	.71	.60	.51	.40
140-HTRL100V.4700	4700	16 x 36	7.5	1.60	1.38	1.14	.90

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case D x L (max)	LS	Price Each			
				1	10	100	500
<b>25 Volt (32 Volt Surge)</b>							
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.10	10	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.22	22	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.33	33	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.47	47	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.100	100	6.3 x 11	2.5	.11	.08	.06	.04
140-HTRL100V.220	220	8 x 13	3.5	.27	.22	.18	.14
140-HTRL100V.330	330	10 x 13	5.0	.32	.28	.23	.18
140-HTRL100V.470	470	10 x 20	5.0	.34	.29	.24	.19
140-HTRL100V.1000	1000	13 x 21	5.0	.60	.52	.43	.34
140-HTRL100V.2200	2200	16 x 27	7.5	1.21	.89	.80	.68
<b>35 Volt (44 Volt Surge)</b>							
140-HTRL100V.4.7	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.2.2	2.2	5 x 11	2.0	.09	.07	.05	.03
140-HTRL100V.3.3	3.3	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.10	10	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.22	22	5 x 11	2.0	.11	.09	.07	.05
140-HTRL100V.33	33	6.3 x 11	2.5	.16	.14	.11	.08
140-HTRL100V.47	47	6.3 x 11	2.5	.17	.15	.12	.09
140-HTRL100V.100	100	8 x 11	3.5	.22	.18	.14	.11
140-HTRL100V.220	220	10 x 12	5.0	.30	.27	.21	.16
140-HTRL100V.330	330	10 x 20	5.0	.32	.28	.23	.18
140-HTRL100V.470	470	10 x 16	5.0	.34	.29	.24	.19
140-HTRL100V.1000	1000	13 x 26	5.0	.73	.62	.53	.40
<b>50 Volt (63 Volt Surge)</b>							
140-HTRL100V.4.7	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.2.2	2.2	5 x 11	2.0	.09	.07	.05	.03
140-HTRL100V.3.3	3.3	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.10	10	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.22	22	6.3 x 11	2.5	.11	.09	.07	.05
140-HTRL100V.33	33	6.3 x 11	2.5	.17	.15	.12	.09
140-HTRL100V.47	47	8 x 11	3.5	.17	.15	.12	.09
140-HTRL100V.100	100	8 x 13	3.5	.24	.20	.16	.13
140-HTRL100V.150	150	10 x 20	5.0	.28	.26	.20	.15
140-HTRL100V.220	220	10 x 20	5.0	.30	.28	.21	.16

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case D x L (max)	LS	Price Each			
				1	10	100	500
<b>50 Volt (63 Volt Surge) cont.</b>							
140-HTRL100V.330	330	13 x 21	5.0	.51	.40	.35	.27
140-HTRL100V.470	470	13 x 26	5.0	.64	.55	.45	.36
140-HTRL100V.1000	1000	16 x 32	7.5	1.09	.84	.76	.62
140-HTRL100V.2200	2200	18 x 41	7.5	2.08	1.79	1.49	1.18
<b>63 Volt (79 Volt Surge)</b>							
140-HTRL100V.4.7	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.09	.08	.06	.04
140-HTRL100V.2.2	2.2	5 x 11	2.0	.09	.08	.06	.04
140-HTRL100V.3.3	3.3	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.4.7	4.7	5 x 11	2.0	.10	.08	.06	.04
140-HTRL100V.100	100	10 x 12	5.0	.60	.52	.43	.34
140-HTRL100V.1000	1000	16 x 37	7.5	1.28	1.10	.90	.84
<b>100 Volt (125 Volt Surge)</b>							
140-HTRL100V.4.7	.47	5 x 11	2.0	.08	.07	.05	.03
140-HTRL100V.1.0	1.0	5 x 11	2.0	.09	.08	.06	.04
140-HTRL100V.2.2	2.2	6.3 x 11	2.5	.11	.09	.07	.05
140-HTRL100V.10	10	8 x 11	3.5	.17	.15	.12	.09
140-HTRL100V.22	22	8 x 11	3.5	.22	.18	.15	.12
140-HTRL100V.47	47	10 x 16	5.0	.31	.28	.22	.17
140-HTRL100V.100	100	13 x 21	5.0	.53	.46	.37	.30
140-HTRL100V.470	470	18 x 37	7.5	1.28	1.10	.90	.84
140-HTRL100V.680	680	18 x 37	7.5	2.15	1.86	1.55	1.23
<b>160 Volt (200 Volt Surge)</b>							
140-HTRL100V.1.0	1.0	5 x 11	2.0	.17	.13	.11	.08
140-HTRL100V.2.2	2.2	6.3 x 11	2.5	.19	.15	.13	.10
140-HTRL100V.4.7	4.7	6.3 x 11	2.5	.20	.16	.15	.12
140-HTRL100V.10	10	10x12.5	5.0	.28	.22	.20	.14
140-HTRL100V.22	22	10 x 20	5.0	.49	.36	.29	.16
140-HTRL100V.47	47	13 x 21	5.0	1.07	.75	.66	.49
140-HTRL100V.100	100	16 x 21	7.5	1.37	.92	.75	.60
<b>250 Volt (300 Volt Surge)</b>							
140-HTRL100V.1.0	1.0	6.3 x 11	2.5	.21	.14	.13	.10
140-HTRL100V.2.2	2.2	6.3 x 11	2.5	.23	.16	.15	.11
140-HTRL100V.4.7	4.7	10 x 13	5.0	.30	.24	.22	.16
140-HTRL100V.10	10	10 x 16	5.0	.46	.33	.28	.24
140-HTRL100V.22	22	13 x 21	5.0	.81	.63	.51	.41
140-HTRL100V.47	47	13 x 25	5.0	1.26	1.05	.95	.86
140-HTRL100V.100	100	16 x 36	7.5	2.09	1.69	1.33	1.04

LOW ESR ELECTROLYTIC CAPACITORS

Features:

- High permissible ripple current
- Wide operating temperature range
- Suited for switching power supplies

Specifications:

- Operating temperature: -55°C to +105°C
- Life test: load life = 2000 hours
- Leakage current: 0.01CV or 3µA



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Max. ESR Ω @ 20°C 100KHZ	Case DxL (max)	LS	Price Each			
					1	10	100	500
<b>16 Volt (20 Volt Surge)</b>								
140-ESRL100V1.0	1.0	17.00	5 x 11	2.0	.24	.16	.12	.099
140-ESRL100V2.2	2.2	6.60	5 x 11	2.0	.24	.16	.12	.099
140-ESRL100V4.7	4.7	4.70	5 x 11	2.0	.24	.16	.12	.099
140-ESRL100V10	10	2.20	5 x 11	2.0	.24	.16	.12	.099
140-ESRL100V22	22	.98	6.3 x 11	2.5	.29	.19	.14	.12
140-ESRL100V33	33	1.60	5 x 11	2.0	.28	.19	.14	.12
140-ESRL100V47	47	1.10	6.3 x 11	2.5	.34	.23	.16	.14
140-ESRL100V100	100	.70	6.3 x 11	2.5	.44	.30	.23	.18
140-ESRL100V220	220	.33	8 x 11.5	3.5	.50	.34	.27	.22
140-ESRL100V330	330	.23	10 x 12.5	5.0	.56	.38	.30	.24
140-ESRL100V470	470	.18	10 x 16	5.0	.61	.41	.32	.26
140-ESRL100V1000	1000	.11	13 x 20	5.0	.96	.65	.54	.44
140-ESRL100V2200	2200	.073	16 x 20	7.5	1.58	1.06	.8	



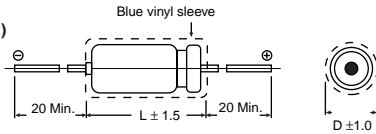
Passive Components

# Axial Aluminum Electrolytic Capacitors

### Specifications:

- Operating temperature range: 10V to 250V: -40°C to +85°C  
350V to 450V: -25°C to +85°C
- Dissipation factor: (Tan δ, @ 20°C, 120Hz) (Tangent of the loss angle): see chart
- Tolerance: ±20%

DIMENSIONS (mm)



Safety Vent  
(Dia.>10)

WVDC	10	16	25	35	50	63	100	160	250	350	450
DF (tanδ)	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.18	0.20	0.25

## 10 VOLT (13 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL10V2.2	2.2	5 x 12	.25	.21	.15
140-XAL50V4.7	4.7	5 x 12	.25	.21	.15
140-XAL16V10	10	5 x 12	.25	.21	.15
140-XAL16V22	22	5 x 12	.25	.21	.15
140-XAH16V33	33	6 x 13	.25	.21	.15
140-XAL16V47	47	6.3 x 12	.25	.21	.15
140-XAH10V100	100	6 x 13	.28	.24	.20
140-XAL10V330	330	8 x 16	.28	.24	.20
140-XAL10V470	470	8 x 16	.36	.28	.25
140-XAH10V680	680	10 x 17	.55	.44	.40
140-XAL10V1000	1000	10 x 17	.55	.44	.40
140-XAL10V2200	2200	13 x 22	.90	.77	.59
140-XAL10V3300	3300	13 x 27	1.23	1.04	.86
140-XAH10V4700	4700	16 x 28	1.25	1.06	.88
140-XAH10V6800	6800	16 x 28	2.27	1.89	1.72
140-XAL10V10000	10000	18 x 36	2.99	2.49	2.27

## 16 VOLT (20 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL50V.47	.47	5 x 12	.25	.21	.15
140-XAL50V1.0	1.0	5 x 12	.25	.21	.15
140-XAH16V2.2	2.2	6 x 13	.25	.21	.15
140-XAL16V3.3	3.3	5 x 12	.25	.21	.15
140-XAL50V4.7	4.7	5 x 12	.25	.21	.15
140-XAL16V10	10	5 x 12	.25	.21	.15
140-XAL16V22	22	5 x 12	.25	.21	.15
140-XAH16V33	33	6 x 13	.25	.21	.15
140-XAL16V47	47	6.3 x 12	.25	.21	.15
140-XAL16V100	100	6.3 x 16	.29	.25	.21
140-XAL16V220	220	8 x 16	.29	.25	.21
140-XAL16V330	330	8 x 16	.29	.25	.21
140-XAL16V470	470	8 x 20	.37	.29	.26
140-XAL16V1000	1000	10 x 21	.73	.63	.51
140-XAH16V2200	2200	13 x 24	.98	.85	.67
140-XAL16V3300	3300	16 x 28	1.25	1.06	.88
140-XAL16V4700	4700	16 x 36	2.17	1.81	1.51
140-XAL16V6800	6800	18 x 38	2.75	2.35	1.84
140-XAL16V10000	10000	22 x 43	3.73	3.20	2.50

## 25 VOLT (32 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL50V.47	.47	5 x 12	.25	.21	.15
140-XAL50V1.0	1.0	5 x 12	.25	.21	.15
140-XAL50V2.2	2.2	5 x 12	.25	.21	.15
140-XAL50V3.3	3.3	5 x 12	.25	.21	.15
140-XAL50V4.7	4.7	5 x 12	.25	.21	.15
140-XAL25V10	10	5 x 12	.25	.21	.15
140-XAL25V22	22	5 x 12	.25	.21	.15
140-XAL25V33	33	6.3 x 12	.25	.21	.15
140-XAH25V47	47	6.3 x 12	.28	.24	.20
140-XAH25V100	100	8 x 16	.30	.26	.22
140-XAL25V220	220	8 x 16	.30	.26	.22
140-XAL25V330	330	10 x 17	.37	.29	.26
140-XAL25V470	470	10 x 17	.47	.39	.35
140-XAL25V1000	1000	13 x 22	.73	.63	.51

## 25 VOLT (32 Volt Surge)(Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL25V2200	2200	16 x 28	1.17	.95	.82
140-XAL25V3300	3300	16 x 33	1.99	1.66	1.51
140-XAH25V4700	4700	18 x 36	2.61	2.18	1.98
140-XAL25V6800	6800	22 x 43	4.99	4.16	3.81
140-XAL25V10000	10000	25 x 52	6.47	5.39	4.92

## 35 VOLT (44 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL50V.47	.47	5 x 12	.25	.21	.15
140-XAL50V1.0	1.0	5 x 12	.25	.21	.15
140-XAL50V2.2	2.2	5 x 12	.25	.21	.15
140-XAL50V3.3	3.3	5 x 12	.25	.21	.15
140-XAL50V4.7	4.7	5 x 12	.25	.21	.15
140-XAL35V10	10	5 x 12	.25	.21	.15
140-XAL50V22	22	6.3 x 12	.25	.21	.15
140-XAH35V33	33	6.3 x 16	.25	.21	.15
140-XAL35V47	47	6.3 x 16	.25	.21	.15
140-XAL35V100	100	8 x 16	.29	.25	.21
140-XAH35V220	220	10 x 21	.37	.29	.26
140-XAL35V330	330	10 x 21	.47	.39	.35
140-XAL35V470	470	10 x 21	.54	.43	.39
140-XAL35V1000	1000	13 x 27	.93	.80	.62
140-XAH35V2200	2200	16 x 33	1.98	1.65	1.50
140-XAL35V3300	3300	18 x 37	3.59	3.08	2.41
140-XAL35V4700	4700	22 x 43	5.13	4.27	3.54

## 50 VOLT (63 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL50V.47	.47	5 x 12	.25	.21	.15
140-XAL50V1.0	1.0	5 x 12	.25	.21	.15
140-XAL50V2.2	2.2	5 x 12	.25	.21	.15
140-XAL50V3.3	3.3	5 x 12	.25	.21	.15
140-XAL50V4.7	4.7	5 x 12	.25	.21	.15
140-XAL50V6.8	6.8	5 x 12	.25	.21	.15
140-XAL50V10	10	6.3 x 12	.25	.21	.15
140-XAH50V22	22	6 x 13	.25	.21	.15
140-XAL50V33	33	6.3 x 16	.25	.21	.15
140-XAL50V47	47	8 x 16	.27	.23	.18
140-XAH50V68	68	8 x 15	.28	.24	.20
140-XAL50V100	100	10 x 17	.30	.26	.22
140-XAL50V220	220	10 x 21	.47	.39	.35
140-XAL50V330	330	13 x 22	.54	.46	.42
140-XAH50V470	470	13 x 24	.75	.64	.53
140-XAL50V680	680	16 x 28	.91	.78	.60
140-XAL50V1000	1000	16 x 33	1.19	.98	.85
140-XAL50V2200	2200	18 x 42	2.67	2.22	2.03
140-XAL50V3300	3300	22 x 43	4.51	3.75	3.43
140-XAL50V4700	4700	25 x 52	5.99	4.99	4.58

## 63 VOLT (79 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAH63V2.2	2.2	6 x 13	.25	.21	.15
140-XAL63V6.8	6.8	5 x 12	.25	.21	.15
140-XAL63V100	100	10 x 21	.40	.31	.27
140-XAL63V220	220	13 x 22	.59	.49	.43
140-XAL63V470	470	13 x 27	.82	.70	.58

## 100 VOLT (125 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL100V1.0	1.0	5 x 12	.25	.21	.15
140-XAL100V2.2	2.2	5 x 12	.25	.21	.15
140-XAL100V3.3	3.3	6.3 x 12	.25	.21	.15
140-XAL100V4.7	4.7	6.3 x 12	.25	.21	.15
140-XAH100V10	10	8 x 16	.25	.21	.15
140-XAL100V22	22	8 x 16	.30	.26	.22
140-XAL100V33	33	10 x 17	.37	.29	.26
140-XAH100V47	47	10 x 21	.37	.29	.26
140-XAL100V100	100	13 x 22	.91	.78	.60
140-XAL100V220	220	16 x 28	1.86	1.59	1.25
140-XAL100V470	470	16 x 37	2.36	1.96	1.77

## 160 VOLT (200 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL160V1.0	1.0	6.3 x 12	.36	.30	.27
140-XAL160V3.3	3.3	8 x 16	.45	.38	.34
140-XAL160V10	10	10 x 21	.55	.44	.40
140-XAH160V22	22	13 x 22	.86	.72	.65
140-XAL160V47	47	13 x 27	1.12	.93	.86
140-XAL160V100	100	16 x 33	1.93	1.61	1.46
140-XAL160V220	220	18 x 42	2.85	2.38	2.16

## 250 VOLT (300 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL250V1.0	1.0	6.3 x 16	.51	.44	.41
140-XAH250V2.2	2.2	8 x 16	.60	.40	.46
140-XAL250V3.3	3.3	10 x 16	.66	.44	.40
140-XAH250V4.7	4.7	10 x 17	.73	.48	.44
140-XAH250V10	10	10 x 21	.79	.61	.55
140-XAH250V22	22	13 x 22	1.19	.99	.92
140-XAL250V33	33	16 x 28	1.36	1.13	1.03
140-XAL250V47	47	16 x 33	1.74	1.45	1.32
140-XAL250V100	100	18 x 43	3.14	2.62	2.38

## 350 VOLT (400 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAH350V3.3	3.3	8 x 20	.73	.56	.51
140-XAL350V4.7	4.7	10 x 21	.84	.65	.59
140-XAH350V22	22	13 x 32	1.40	1.17	1.06
140-XAL350V33	33	16 x 33	2.06	1.72	1.56
140-XAL350V47	47	16 x 42	2.65	2.21	2.01
140-XAL350V100	100	22 x 43	4.61	3.84	3.49

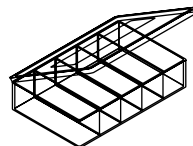
## 450 VOLT (500 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Price Each		
			1	10	100
140-XAL450V1.0	1.0	8 x 16	.69	.46	.42
140-XAL450V2.2	2.2	10 x 21	.75	.55	.50
140-XAL450V3.3	3.3	10 x 21	.83	.64	.58
140-XAL450V4.7	4.7	13 x 22	.96	.74	.67
140-XAH450V10	10	13 x 24	1.29	1.09	.99
140-XAL450V22	22	16 x 32	2.10	1.75	1.59
140-XAL450V33	33	18 x 40	2.94	2.45	2.23
140-XAH450V47	47	18 x 36	3.46	2.88	2.62
140-XAL450V100	100	25 x 52	6.27	5.23	4.75

## MINIATURE ALUMINUM ELECTROLYTIC CAPACITOR KITS

- ±20%
- 25VDC - 50VDC
- -40°C to +85°C
- Fully assembled and keyed for easy use



# Non-Polar, Bi-Polar, Photo-Flash, and Memory Back-Up Capacitors



Passive Components

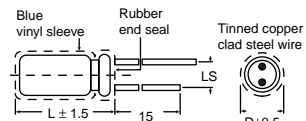
## NON-POLARIZED ELECTROLYTICS

These capacitors are designed for application in circuits that are sometimes reversed in polarity, or circuits to which short duration AC voltages are impressed.

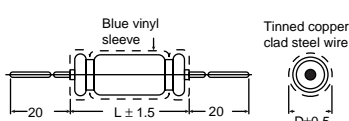
### Specifications:

- Capacitance tolerance:  $\pm 10\%$
- Operating temperature range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Dissipation factor ( $25^{\circ}\text{C}$ ): @  $120\text{Hz}=15\%$  @  $1\text{kHz}=20\%$
- Leakage current:  $I=0.02\text{CV}=3\mu\text{A}$  (max.)

### Radial



### Axial



### DIMENSIONS (mm)

### Radial Lead Type

MOUSER STOCK NO.	Value ( $\mu\text{F}$ )	Volts	Case D x L (max)	LS	Price Each					Call For Quote
					1	100	500	1000	5000	
140-NPRL50V1.0	1.0	50	5 x 11	2.0	.18	.09	.08	.07		
140-NPRL50V2.2	2.2	50	5 x 11	2.0	.18	.09	.08	.07		
140-NPRL50V3.3	3.3	50	5 x 11	2.0	.20	.10	.09	.08		
140-NPRL50V4.7	4.7	50	5 x 11	2.0	.20	.10	.09	.08		
140-NPRL50V6.8	6.8	50	6 x 11	2.5	.35	.26	.21	.15		
140-NPRL50V10	10	50	8 x 11	3.5	.24	.12	.11	.10		
140-NPRL50V15	15	50	8 x 15	3.5	.46	.34	.26	.20		
140-NPRL50V22	22	50	8 x 11	3.5	.36	.18	.17	.15		
140-NPRL50V33	33	50	8 x 13	3.5	.46	.23	.21	.19		
140-NPRL50V47	47	50	10 x 16	5.0	.49	.33	.30	.27		
140-NPRL50V68	68	50	10 x 20	5.0	.88	.64	.51	.39		
140-NPRL50V100	100	50	10 x 20	5.0	.74	.49	.45	.41		
140-NPRL50V1000	1000	50	18 x 41	7.5	3.61	3.00	2.73	2.49		

### Axial Lead Type

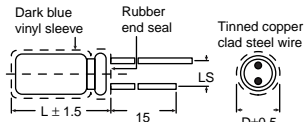
MOUSER STOCK NO.	Value ( $\mu\text{F}$ )	Volts	Case D x L (max)	Price Each					Call For Quote
				1	100	500	1000	5000	
140-NPAL50V1.0	1.0	50	6.3 x 12	.38	.28	.22	.16		
140-NPAL50V1.5	1.5	50	6.3 x 12	.40	.29	.23	.17		
140-NPAL50V2.2	2.2	50	6.3 x 12	.43	.31	.24	.18		
140-NPAL50V3.3	3.3	50	6.3 x 12	.45	.33	.25	.20		
140-NPAL50V4.0	4.0	50	6.3 x 12	.48	.35	.28	.21		
140-NPAL50V4.7	4.7	50	6.3 x 12	.48	.35	.28	.21		
140-NPAL50V5.6	5.6	50	6.3 x 12	.49	.44	.28	.21		
140-NPAL50V6.8	6.8	50	6.3 x 12	.55	.49	.31	.24		
140-NPAL50V10	10	50	6.3 x 12	.61	.44	.35	.26		
140-NPAL50V15	15	50	8 x 13	.71	.53	.40	.31		
140-NPAL50V22	22	50	8 x 16	.81	.58	.46	.35		
140-NPAL50V33	33	50	8 x 16	.94	.70	.54	.41		
140-NPAL50V47	47	50	10 x 17	1.09	.78	.62	.47		
140-NPAL50V50	50	50	10 x 22	1.16	.83	.66	.50		
140-NPAL50V68	68	50	10 x 26	1.25	.93	.71	.55		
140-NPAL50V100	100	50	10 x 21	1.45	1.04	.83	.62		
140-NPAL50V200	200	50	13 x 32	1.81	1.51	1.37	1.25		
140-NPAL50V220	220	50	13 x 27	1.94	1.63	1.48	1.35		
140-NPAL100V1.0	1.0	100	6.3 x 12	.47	.33	.26	.21		
140-NPAL100V1.5	1.5	100	6.3 x 12	.52	.37	.29	.23		
140-NPAL100V2.2	2.2	100	6.3 x 12	.56	.40	.31	.24		
140-NPAL100V3.3	3.3	100	6.3 x 16	.69	.49	.38	.28		
140-NPAL100V4.0	4.0	100	8 x 13	.62	.45	.34	.26		
140-NPAL100V4.7	4.7	100	6.3 x 16	.74	.53	.40	.31		
140-NPAL100V6.8	6.8	100	8 x 20	.77	.55	.47	.36		
140-NPAL100V8.0	8.0	100	8 x 16	.68	.48	.42	.33		
140-NPAL100V10	10	100	8 x 16	.79	.56	.53	.40		
140-NPAL100V15	15	100	10 x 26	1.12	.79	.61	.47		
140-NPAL100V22	22	100	10 x 22	1.30	.93	.71	.55		
140-NPAL100V33	33	100	10 x 24	1.94	1.40	1.07	.83		
140-NPAL100V47	47	100	10 x 30	2.79	2.15	1.66	1.28		
140-NPAL100V50	50	100	13 x 32	3.23	2.50	1.92	1.48		
140-NPAL100V68	68	100	13 x 24	4.04	3.12	2.39	1.85		
140-NPAL100V100	100	100	16 x 28	4.43	3.40	2.62	2.01		
140-NPAL100V220	220	100	16 x 37	5.95	4.96	4.13	3.44		

## AUDIO FREQUENCY BI-POLARS

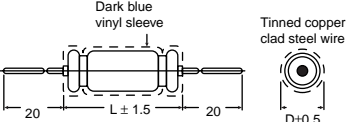
### Specifications:

- Operating temperature range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Tangent of the loss angle: 0.05 max. (@ 120Hz)
- Capacitance tolerance:  $\pm 20\%$
- Leakage current:  $100\mu\text{A}$  (max.)

### Radial



### Axial



### DIMENSIONS (mm)

### Radial Lead Type

For quantities greater than listed, call for quote

MOUSER STOCK NO.	Value ( $\mu\text{F}$ )	Volts	Case D x L (max)	LS	Price Each			
					1	100	500	1000
140-BPRL50V1.0	1.0	50	8 x 11	3.5	.31	.16	.14	.13
140-BPRL50V2.2	2.2	50	10 x 13	5.0	.52	.35	.32	.29
140-BPRL50V3.3	3.3	50	10 x 16	5.0	.52	.35	.32	.29
140-BPRL50V4.7	4.7	50	10 x 20	5.0	.52	.35	.32	.29
140-BPRL50V6.8	6.8	50	13 x 21	5.0	.40	.33	.30	.28
140-BPRL50V10	10	50	13 x 26	5.0	.72	.48	.43	.39
140-BPRL50V22	22	50	16 x 27	7.5	1.26	.84	.76	.70

### Axial Lead Type

For quantities greater than listed, call for quote

MOUSER STOCK NO.	Value ( $\mu\text{F}$ )	Volts	Case D x L (max)	LS	Price Each			
					1	100	500	1000
140-BPAL50V2.2	2.2	50	6.3 x 13	---	.54	.36	.33	.30

## PHOTO-FLASH TYPE ELECTROLYTICS

### Specifications:

- Operating temp.:  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$
- Max. leakage current ( $\mu\text{A}$ ):  $I=1\text{XC}$  max.
- Tolerance:  $-10\%$  to  $+20\%$
- Dissipation factor:  $.07$  max.
- Dimensions:  $.87" \times 1.38"$



### 330 VDC (350V Surge)

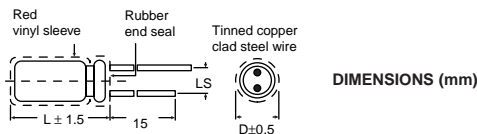
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value ( $\mu\text{F}$ )	Terminal Type	Price Each			
			1	10	50	100
19FL200	200	Solder	8.50	7.08	6.43	5.85
19FL201	200	PCB	8.50	7.08	6.43	5.85

## HIGH FREQUENCY BI-POLARS

### Specifications:

- Operating temperature range:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Leakage current:  $I=0.2\text{CV}$  ( $\mu\text{A}$ )
- Capacitance tolerance:  $\pm 20\%$
- Dissipation factor ( $20^{\circ}\text{C}$ , 120 Hz): 0.05, 120 Hz



### DIMENSIONS (mm)

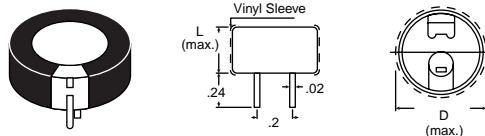
### Radial Lead Type (50 Volt)

For quantities greater than listed, call for quote

MOUSER STOCK NO.	Value ( $\mu\text{F}$ )	Case D x L (max)	LS	Ripple (Ip-p)		Price Each			
				70°C	85°C	1	100	500	1000
				140-BPHR50V1.0	1.0	13 x 26	5.0	4	3.5
140-BPHR50V2.2	2.2	16 x 27	7.5	6	4	.87	.67	.59	.52
140-BPHR50V3.3	3.3	16 x 32	7.5	6.5	4.5	.99	.77	.69	.63
140-BPHR50V4.7	4.7	16 x 25	7.5	7.5	5	1.05	.82	.74	.67
140-BPHR50V6.8	6.8	16 x 36	7.5	8	5.5	1.13	.87	.79	.72
140-BPHR50V8.2	8.2	16 x 36	7.5	9.0	6.5	1.20	.92	.84	.76
140-BPHR50V10	10	16 x 36	7.5	10	7	1.29	1.08	.99	.89
140-BPHR50V12	12	18 x 41	7.5	12	8.5	1.50	1.25	1.14	1.04
140-BPHR50V15	15	22 x 41	10	12.5	9.0	2.07	1.72	1.57	1.43
140-BPHR50V22	22	22 x 40	10	13	9.5	2.37	2.01	1.83	1.64
140-BPHR50V33	33	33 x 40	10	14	10	2.98	2.52	2.30	2.06

## ELNA DB SERIES MEMORY BACK-UP CAPACITORS (5.5V MINIATURE)

DIMENSIONS (IN.)



### Features:

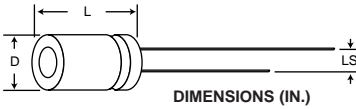
- Small size, large capacitance
- For memory back up in electronic devices
- Minimum self-discharging
- Wide temperature range:  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Capacitance tolerance:  $-20\%$  to  $+80\%$

For quantities greater than listed, call for quote

MOUSER STOCK NO.	Cap. (Farad)	Dimensions (In.)		Price Each		
		D	L	1	100	500
555-47Z5.5	.047	.53	.30	1.76	1.54	1.35
555-100Z5.5	.1	.53	.30	2.31	1.96	1.62
555-202Z5.5	.22	.53	.30	2.43	2.06	1.69
555-47OZ5.5	.47	.85	.31	4.07	3.45	2.85
555-1.0Z5.5	1	.85	.31	5.05	4.46	3.54



## RADIAL LEADS TWSS TYPE



• Operating temperature: -40°C to +85°C

Rated Voltage	10	16	25	35	50
DF%	19	16	14	12	10

**10 Volt (13V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxL (In.) Max.	LS (In.)	Price Each			
				1	100	500	1000
208-10V100	100	.20 x .44	.08	.39	.26	.24	.22
208-10V220	220	.31 x .44	.10	.49	.33	.30	.27
208-10V470	470	.32 x .49	.14	.65	.50	.45	.41
208-10V1000	1000	.39 x .59	.20	.90	.69	.63	.57
208-10V2200	2200	.63 x .98	.20	1.35	1.12	1.02	.93
208-10V3300	3300	.50 x .99	.20	1.69	1.41	1.28	1.16
208-10V4700	4700	.63 x .99	.30	2.15	1.79	1.63	1.48
208-10V6800	6800	.64 x 1.21	.30	3.13	2.61	2.37	2.15

**16 Volt (20V Surge)** For quantities greater than listed, call for quote.

208-16V47	47	.20 x .44	.08	.39	.26	.24	.22
208-16V100	100	.31 x .44	.10	.46	.31	.28	.25
208-16V220	220	.32 x .44	.14	.57	.38	.35	.31
208-16V330	330	.32 x .49	.14	.70	.47	.42	.39
208-16V470	470	.39 x .50	.20	.75	.58	.52	.48
208-16V1000	1000	.40 x .79	.20	1.20	.93	.84	.77
208-16V2200	2200	.49 x .98	.20	1.76	1.47	1.34	1.21
208-16V3300	3300	.63 x 1.24	.30	2.30	1.92	1.74	1.58
208-16V4700	4700	.64 x 1.24	.30	3.04	2.53	2.30	2.09

**25 Volt (32V Surge)** For quantities greater than listed, call for quote.

208-25V33	33	.20 x .44	.08	.40	.27	.24	.22
208-25V47	47	.25 x .44	.08	.43	.29	.26	.24
208-25V100	100	.25 x .44	.10	.50	.33	.30	.27
208-25V220	220	.32 x .49	.14	.78	.60	.54	.45
208-25V330	330	.39 x .49	.20	.79	.61	.55	.50
208-25V470	470	.39 x .59	.20	1.09	.84	.77	.70
208-25V1000	1000	.49 x .79	.20	1.47	1.22	1.11	1.01
208-25V2200	2200	.63 x .98	.30	2.51	2.10	1.90	1.73

**35 Volt (44V Surge)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxL (In.) Max.	LS (In.)	Price Each			
				1	100	500	1000
208-35V33	33	.20 x .44	.08	.45	.30	.27	.25
208-35V47	47	.25 x .44	.10	.45	.30	.27	.25
208-35V100	100	.39 x .49	.14	.60	.40	.37	.33
208-35V220	220	.39 x .49	.20	.79	.61	.55	.50
208-35V330	330	.39 x .59	.20	1.13	.87	.79	.72
208-35V470	470	.40 x .82	.20	1.26	.97	.88	.80
208-35V1000	1000	.50 x .99	.20	1.76	1.47	1.34	1.21
208-35V2200	2200	.64 x 1.22	.30	3.76	3.13	2.85	2.59

**160 Volt (200V Surge)**

• Tolerance: 10% For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxL (In.) Max.	LS (In.)	Price Each			
				1	100	500	1000
208-160V1.0	1.0	.25 x .44	.10	.45	.28	.25	.23
208-160V2.2	2.2	.25 x .44	.10	.48	.32	.29	.26
208-160V4.7	4.7	.31 x .45	.14	.60	.40	.36	.33
208-160V10	10	.39 x .49	.20	.72	.48	.44	.40
208-160V22	22	.40 x .80	.30	1.22	1.02	.93	.84
208-160V47	47	.49 x .98	.20	1.68	1.40	1.27	1.16
208-160V100	100	.63 x .98	.30	2.31	1.92	1.75	1.59

**250 Volt (300V Surge)**

• Tolerance: 10% For quantities greater than listed, call for quote.

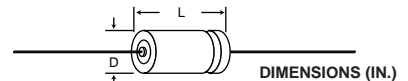
208-250V1.0	1.0	.25 x .44	.10	.54	.36	.33	.29
208-250V2.2	2.2	.32 x .45	.14	.59	.39	.36	.32
208-250V3.3	3.3	.39 x .49	.20	.66	.44	.40	.37
208-250V4.7	4.7	.39 x .49	.20	.72	.53	.48	.44
208-250V10	10	.39 x .79	.20	1.06	.81	.74	.67
208-250V22	22	.49 x .98	.20	1.36	1.13	1.02	.93
208-250V47	47	.63 x .98	.30	2.08	1.73	1.58	1.43

**450 Volt (500V Surge)**

• Tolerance: 10% For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxL (In.) Max.	LS (In.)	Price Each			
				1	100	500	1000
208-450V1.0	1.0	.39 x .50	.20	.67	.45	.41	.37
208-450V2.2	2.2	.39 x .63	.20	.92	.71	.65	.59
208-450V4.7	4.7	.49 x .79	.20	1.25	.96	.87	.79
208-450V10	10	.49 x .98	.20	1.51	1.26	1.14	1.04

## AXIAL LEADS



**100 Volt (125V Surge)**

**100 Volt (125V Surge)**

• Tolerance: 20% For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case DxL (In.) Max.	LS (In.)	Price Each			
				1	100	500	1000
208-100V4.7	4.7	.20 x .44	.08	.47	.32	.29	.26
208-100V10	10	.25 x .44	.10	.60	.40	.36	.33
208-100V22	22	.32 x .45	.14	.73	.49	.44	.40
208-100V47	47	.40 x .63	.20	1.09	.84	.76	.70
208-100V100	100	.49 x .79	.20	1.41	1.17	1.06	.97
208-100V220	220	.62 x .98	.34	2.42	2.02	1.84	1.67

For quantities greater than listed, call for quote.

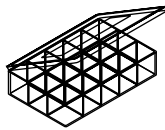
MOUSER STOCK NO.	Value (μF)	Case DxL (In.) Max.	Price Each			
			1	100	500	1000
19AX033	33	.39 x 1.24	1.00	.77	.70	.64

## TWSS SERIES ELECTROLYTIC CAPACITOR KIT

- 85 pieces
- 12 different values
- 1.0μF - 100μF
- ±20%
- -40°C to +85°C

**Contains:**

@25VDC 5 Each: 100, 220, 470, 1000μF  
 @35VDC 5 Each: 33, 47 μF  
 @50VDC 5 Each: 22μF  
 10 Each: 1.0, 2.2, 3.3, 4.7, 10μF

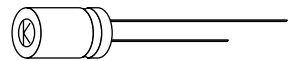


MOUSER STOCK NO.	Price Each
370-208-25	33.95

## TYPE BW BI-POLAR ELECTROLYTICS

**Specifications:**

- Operating temp.: -25°C to +85°C
- Leakage current: I=0.03CV +4μA (max.)
- 20% tolerance
- Dissipation factor: .15 max. @ 1KHz, .50 max. @ 10KHz



**50VDC (63V Surge)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case D x L (In.) Max.	LS (In.)	Price Each			Call For Quote
				1	100	500	
19NT001	1.0	.25 x .44	.10	.54	.36	.33	
19NT002	2.2	.32 x .44	.14	.59	.39	.36	
19NT005	4.7	.32 x .44	.14	.63	.42	.38	
19NT010	10	.40 x .63	.20	.71	.55	.50	
19NT047	47	.63 x .98	.30	1.80	1.50	1.36	

## MS-7 SERIES MICRO-MINIATURE CAPACITORS

- Capacitance tolerance: ±20%
- Leakage current: 0.01CV or 3μA, whichever is greater
- Operating temperature range: -40°C to +85°C

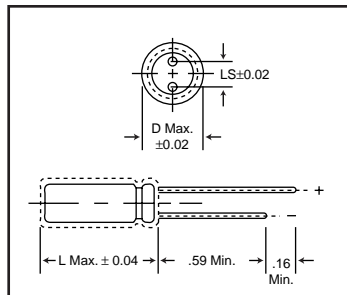
**6.3 Volt (8V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case Size D x L (In.) Max.	LS (In.)	Price Each		
				1	100	500
202-6.3V47	47	.20 x .28	.08	.58	.38	.35
202-6.3V100	100	.20 x .28	.10	.58	.38	.35

**16 Volt (20V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case Size D x L (In.) Max.	LS (In.)	Price Each		
				1	100	500
202-16V10	10	.16 x .28	.06	.44	.29	.26
202-16V22	22	.20 x .28	.08	.52	.35	.21
202-16V47	47	.25 x .28	.10	.58	.38	.35

**DIMENSIONS (IN.)**



**25 Volt (32V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case Size D x L (In.) Max.	LS (In.)	Price Each		
				1	100	500
202-25V4.7	4.7	.16 x .28	.06	.44	.29	.26

**35 Volt (44V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Case Size D x L (In.) Max.	LS (In.)	Price Each		
				1	100	500
202-35V22	22	.25 x .28	.10	.58	.38	.35
202-35V33	33	.25 x .28	.10	.58	.38	.35

**50 Volt (63V Surge)** For quantities greater than listed, call for quote.

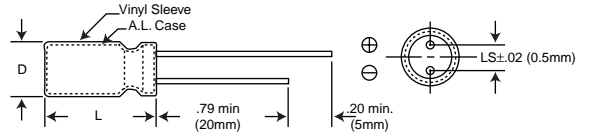
MOUSER STOCK NO.	Value (μF)	Case Size D x L (In.) Max.	LS (In.)	Price Each		
				1	100	500
202-50V1.0	1.0	.16 x .28	.06	.44	.29	.26
202-50V2.2	2.2	.16 x .28	.06	.44	.29	.26

## SKR SERIES RADIAL TYPE

SKR series is more suitable for electronics products which require small size, such as stereo radios, TV sets, etc.

- Operating temperature range: -40°C to +85°C @ 10 to 100VDC, -25°C to +85°C @ 160 to 450VDC
- Capacitance tolerance (120Hz 25°C): ± 20% (M)

### DIMENSIONS IN. (mm)



### 10 Volt (13 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR10V47	47	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR10V100	100	5 x 11	.20 x .44	.08	.14	.10	.083	.066
539-SKR10V220	220	6.3 x 11	.25 x .44	.10	.16	.12	.098	.078
539-SKR10V330	330	8 x 11	.31 x .44	.14	.22	.16	.14	.11
539-SKR10V470	470	8 x 11	.31 x .44	.14	.24	.18	.15	.12
539-SKR10V1000	1000	10 x 16	.40 x .63	.20	.36	.27	.23	.18
539-SKR10V2200	2200	13 x 21	.51 x .83	.20	.74	.57	.48	.38
539-SKR10V3300	3300	13 x 21	.51 x .83	.20	.94	.71	.59	.47
539-SKR10V4700	4700	16 x 25	.63 x .98	.30	1.19	.90	.75	.60
539-SKR10V6800	6800	16 x 32	.63 x 1.26	.30	1.76	1.33	1.10	.88
539-SKR10V10000	10000	18 x 35	.71 x 1.38	.30	2.41	1.82	1.51	1.21

### 16 Volt (20 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR16V33	33	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR16V47	47	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR16V100	100	6.3 x 11	.25 x .44	.10	.14	.10	.083	.066
539-SKR16V220	220	8 x 11	.31 x .44	.14	.20	.15	.13	.098
539-SKR16V330	330	8 x 11	.31 x .44	.14	.26	.20	.16	.13
539-SKR16V470	470	10 x 13	.40 x .51	.20	.29	.23	.18	.15
539-SKR16V1000	1000	10 x 21	.40 x .63	.20	.44	.34	.28	.22
539-SKR16V2200	2200	13 x 21	.51 x .83	.20	.80	.60	.50	.40
539-SKR16V3300	3300	13 x 26	.51 x 1.02	.20	1.06	.80	.67	.53
539-SKR16V4700	4700	16 x 32	.63 x 1.26	.30	1.80	1.37	1.13	.90
539-SKR16V6800	6800	18 x 35	.71 x 1.38	.30	2.44	1.83	1.53	1.22
539-SKR16V10000	10000	18 x 42	.71 x 1.65	.30	2.87	2.16	1.80	1.44

### 25 Volt (32 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR25V10	10	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR25V22	22	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR25V33	33	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR25V47	47	5 x 11	.20 x .44	.08	.12	.09	.073	.058
539-SKR25V100	100	6.3 x 11	.25 x .44	.10	.20	.15	.13	.098
539-SKR25V220	220	8 x 11	.31 x .44	.14	.22	.16	.14	.11
539-SKR25V330	330	10 x 13	.40 x .51	.20	.36	.27	.23	.18
539-SKR25V470	470	10 x 16	.40 x .63	.20	.36	.27	.23	.18
539-SKR25V1000	1000	13 x 21	.51 x .83	.20	.62	.47	.39	.31
539-SKR25V2200	2200	13 x 26	.51 x 1.02	.20	1.08	.81	.73	.54
539-SKR25V3300	3300	16 x 32	.63 x 1.26	.30	1.58	1.19	.99	.79
539-SKR25V4700	4700	18 x 35	.71 x 1.38	.30	2.04	1.53	1.28	1.02
539-SKR25V6800	6800	18 x 42	.71 x 1.65	.30	2.90	2.18	1.81	1.45

### 35 Volt (44 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR35V10	10	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR35V22	22	5 x 11	.20 x .44	.08	.12	.09	.073	.058
539-SKR35V33	33	5 x 11	.20 x .44	.08	.12	.09	.073	.058
539-SKR35V47	47	6.3 x 11	.25 x .44	.10	.14	.10	.083	.066
539-SKR35V100	100	8 x 11	.31 x .44	.14	.30	.23	.19	.15
539-SKR35V220	220	10 x 13	.40 x .51	.20	.30	.23	.19	.15
539-SKR35V330	330	10 x 16	.40 x .63	.20	.38	.29	.24	.19
539-SKR35V470	470	10 x 21	.40 x .83	.20	.46	.35	.29	.23
539-SKR35V1000	1000	13 x 21	.51 x .83	.20	.82	.62	.51	.41
539-SKR35V2200	2200	16 x 32	.63 x 1.26	.30	1.58	1.19	.99	.79
539-SKR35V3300	3300	18 x 35	.71 x 1.38	.30	2.40	1.80	1.50	1.20
539-SKR35V4700	4700	18 x 42	.71 x 1.65	.30	2.76	2.07	1.73	1.38

### 50 Volt (63 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR50V0.47	47	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR50V1.0	1.0	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR50V2.2	2.2	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR50V3.3	3.3	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR50V4.7	4.7	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR50V10	10	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR50V22	22	5 x 11	.20 x .44	.08	.12	.09	.073	.058
539-SKR50V33	33	6.3 x 11	.25 x .44	.10	.14	.10	.083	.066
539-SKR50V47	47	6.3 x 11	.25 x .44	.10	.16	.12	.098	.078
539-SKR50V100	100	8 x 11	.31 x .44	.14	.30	.23	.19	.15
539-SKR50V220	220	10 x 16	.40 x .63	.20	.40	.30	.25	.20
539-SKR50V330	330	10 x 21	.40 x .83	.20	.50	.38	.31	.25
539-SKR50V470	470	13 x 21	.51 x .83	.20	.64	.48	.40	.32
539-SKR50V1000	1000	16 x 25	.63 x .98	.30	1.18	.89	.74	.59
539-SKR50V2200	2200	18 x 35	.71 x 1.38	.30	2.14	1.61	1.34	1.07
539-SKR50V3300	3300	18 x 42	.71 x 1.65	.30	3.68	2.76	2.30	1.84

### 63 Volt (79 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR63V1.0	1.0	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR63V2.2	2.2	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR63V3.3	3.3	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR63V4.7	4.7	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR63V10	10	5 x 11	.20 x .44	.10	.12	.09	.073	.058
539-SKR63V22	22	6.3 x 11	.25 x .44	.10	.14	.10	.083	.066
539-SKR63V33	33	6.3 x 11	.25 x .44	.10	.14	.10	.083	.066
539-SKR63V47	47	8 x 11	.31 x .44	.14	.20	.15	.13	.098
539-SKR63V100	100	10 x 13	.40 x .51	.20	.32	.24	.20	.16
539-SKR63V220	220	10 x 21	.40 x .83	.20	.48	.36	.30	.24
539-SKR63V330	330	13 x 21	.51 x .83	.20	.68	.51	.43	.34
539-SKR63V470	470	13 x 26	.51 x 1.02	.20	.88	.66	.55	.44
539-SKR63V1000	1000	10 x 32	.63 x 1.26	.30	1.60	1.20	1.00	.80

### 100 Volt (125 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR100V0.47	47	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR100V1.0	1.0	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR100V2.2	2.2	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR100V3.3	3.3	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR100V4.7	4.7	5 x 11	.20 x .44	.08	.10	.08	.06	.048
539-SKR100V10	10	6.3 x 11	.25 x .44	.10	.14	.10	.083	.066
539-SKR100V22	22	8 x 11	.31 x .44	.14	.20	.15	.13	.098
539-SKR100V33	33	10 x 13	.40 x .51	.20	.34	.25	.21	.17
539-SKR100V47	47	10 x 16	.40 x .63	.20	.36	.27	.23	.18
539-SKR100V100	100	13 x 21	.51 x .83	.20	.60	.45	.38	.30
539-SKR100V220	220	16 x 25	.63 x .98	.30	1.14	.85	.71	.57
539-SKR100V330	330	16 x 25	.63 x .98	.30	1.51	1.14	.95	.76
539-SKR100V470	470	16 x 32	.63 x 1.26	.30	1.65	1.24	1.03	.83

### 160 Volt (200 Volt Surge)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR160V2.2	2.2	6.3 x 11	.25 x .44	.10	.16	.12	.098	.078
539-SKR160V3.3	3.3	6.3 x 11	.25 x .44	.10	.22	.16	.14	.11
539-SKR160V4.7	4.7	6.3 x 11	.25 x .44	.10	.22	.16	.14	.11
539-SKR160V10	10	8 x 11	.31 x .44	.14	.26	.20	.18	.15
539-SKR160V22	22	10 x 16	.40 x .63	.20	.42	.33	.27	.21
539-SKR160V33	33	10 x 21	.40 x .83	.20	.53	.41	.33	.27
539-SKR160V47	47	13 x 21	.51 x .83	.20	.94	.71	.59	.47
539-SKR160V100	100	13 x 26	.51 x 1.02	.20	1.12	.84	.69	.56
539-SKR160V220	220	16 x 35	.63 x 1.38	.30	2.18	2.09	1.65	1.23
539-SKR160V330	330	18 x 42	.71 x 1.65	.30	3.23	2.43	2.02	1.62

### 250 Volt (300 Volt Surge)

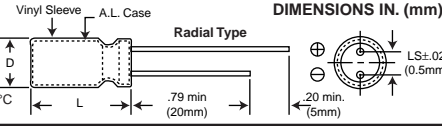
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxL (mm)	Case DxL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-SKR250V1.0	1.0	6.3 x 11	.25 x .44	.10	.22	.16	.14	.11
539-SKR250V2.2	2.2	6.3 x 11	.25 x .44	.10	.22	.16	.14	.11
539-SKR250V3.3	3.3	8 x 11	.31 x .44	.14	.30	.23	.20	.15
539-SKR250V4.7	4.7	8 x 11	.31 x .44	.14	.30	.23	.20	.15
539-SKR250V10	10	10 x 16	.40 x .63	.20	.40	.30	.25	.20
539-SKR250V22	22	13 x 21	.51 x .83	.20	.74	.57	.48	.38
539-SKR250V33	33	13 x 21	.51 x .83	.20	.84	.63	.53	.42



**TKR Series** is fit for those consumer products which require to withstand high temperature and high reliability. Suitable for consumer electronic equipment, telecommunication equipment and general industry products, etc.

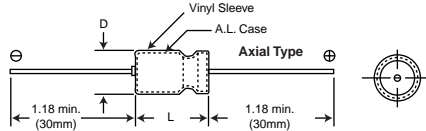
- Operating temperature range: -40°C to +105°C @ 10 to 100VDC
- Capacitance tolerance (120Hz 25°C): ± 20% (M)
- High temperature: -40°C to +105°C



WVDC	10	16	25	35	50	100	160	450
DF (tanδ)	.20	.17	.15	.12	.10	.08	.20	.25

**SKA Series** is more suitable for consumer electronic equipment, such as stereo radios, TV sets, etc.

- Operating temperature range: -40°C to +85°C @ 10 to 100VDC, -25°C to +85°C @ 160 to 450VDC
- Capacitance tolerance (120Hz 25°C): ± 20% (M)



WVDC	10	16	25	35	50	100	160	450
DF (tanδ)	.20	.17	.15	.12	.10	.08	.20	.25

**SKA SERIES ALUMINUM ELECTROLYTICS**

**10 Volt (13 Volt Surge)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Case DxDL (In.)	Price Each			
				1	50	100	500
539-SKAN10V100	100	6 x 16	.24 x .63	.30	.26	.21	.17
539-SKA10V470	470	8 x 16	.31 x .63	.37	.32	.26	.21
539-SKA10V1000	1000	10 x 22	.40 x .87	.56	.48	.42	.33
539-SKA10V2200	2200	13 x 27	.51 x 1.06	.91	.78	.65	.52

**16 Volt (20 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKAN16V47	47	6 x 12.5	.24 x .50	.26	.23	.19	.15
539-SKAN16V100	100	6 x 16	.24 x .63	.33	.29	.24	.19
539-SKA16V220	220	8 x 16	.31 x .63	.35	.30	.25	.20
539-SKAN16V330	330	8 x 20	.31 x .79	.37	.32	.26	.21
539-SKAN16V470	470	10 x 16	.39 x .63	.42	.36	.30	.24
539-SKA16V1000	1000	10 x 27	.39 x 1.06	.75	.65	.54	.43
539-SKAN16V2200	2200	13 x 30	.51 x 1.19	1.02	.87	.73	.58
539-SKAN16V3300	3300	16 x 30	.63 x 1.19	1.26	1.08	.90	.72

**25 Volt (32 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKAN25V33	33	6 x 12.5	.24 x .50	.28	.24	.20	.16
539-SKAN25V47	47	6 x 12.5	.24 x .50	.30	.26	.21	.17
539-SKAN25V100	100	8 x 16	.31 x .63	.33	.29	.24	.19
539-SKAN25V220	220	8 x 20	.31 x .79	.37	.32	.26	.21
539-SKAN25V330	330	10 x 16	.40 x .63	.42	.36	.30	.24
539-SKA25V470	470	10 x 22	.40 x .87	.53	.45	.38	.30
539-SKAN25V1000	1000	13 x 25	.51 x .99	.82	.71	.59	.47
539-SKAN25V2200	2200	16 x 30	.63 x 1.19	1.26	1.08	.90	.72

**35 Volt (44 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKA35V22	22	6.3 x 13	.25 x .51	.26	.23	.19	.15
539-SKAN35V33	33	6 x 16	.31 x .63	.28	.24	.20	.16
539-SKAN35V47	47	6 x 16	.31 x .63	.30	.26	.21	.17
539-SKA35V100	100	8 x 16	.31 x .63	.35	.30	.25	.20
539-SKAN35V220	220	10 x 16	.40 x .63	.42	.36	.30	.24
539-SKA35V330	330	10 x 22	.40 x .87	.53	.45	.38	.30
539-SKAN35V470	470	10 x 25	.40 x .99	.61	.53	.44	.35
539-SKA35V1000	1000	13 x 32	.51 x 1.26	1.02	.87	.73	.58

**50 Volt (63 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKAN50V1.0	1.0	5 x 12.5	.20 x .50	.26	.23	.19	.15
539-SKAN50V2.2	2.2	6.3 x 13	.25 x .51	.26	.23	.19	.15
539-SKAN50V3.3	3.3	5 x 12.5	.20 x .50	.26	.23	.19	.15
539-SKAN50V4.7	4.7	5 x 12.5	.20 x .50	.26	.23	.19	.15
539-SKAN50V10	10	5 x 12.5	.20 x .50	.28	.24	.20	.16
539-SKAN50V22	22	6 x 16	.31 x .63	.30	.26	.21	.17
539-SKA50V33	33	6.3 x 16	.25 x .63	.30	.26	.21	.17
539-SKAN50V47	47	8 x 16	.32 x .63	.30	.26	.21	.17
539-SKAN50V100	100	8 x 20	.32 x .79	.37	.32	.26	.21
539-SKAN50V220	220	10 x 20	.39 x .79	.53	.45	.38	.30
539-SKAN50V330	330	10 x 25	.39 x .99	.63	.54	.45	.36
539-SKAN50V470	470	13 x 25	.51 x .99	.84	.72	.60	.48
539-SKAN50V1000	1000	16 x 30	.63 x 1.19	1.28	1.10	.91	.73

**100 Volt (125 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKA100V1.0	1.0	6.3 x 13	.25 x .51	.28	.24	.20	.16
539-SKA100V3.3	3.3	6.3 x 13	.25 x .51	.28	.24	.20	.16
539-SKA100V10	10	6.3 x 16	.25 x .63	.30	.26	.21	.17
539-SKAN100V22	22	8 x 16	.31 x .63	.37	.32	.26	.21
539-SKAN100V33	33	8 x 21	.31 x .83	.42	.36	.30	.24
539-SKAN100V47	47	10 x 20	.39 x .79	.44	.38	.31	.25

**160 Volt (200 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKAN160V10	10	10 x 22	.40 x .87	.60	.51	.43	.34
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**450 Volt (500 Volt Surge)**

For quantities greater than listed, call for quote.

539-SKA450V33	33	18 x 43	.71 x 1.69	4.24	3.63	3.03	2.42
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**TKR SERIES HIGH TEMPERATURE ELECTROLYTICS**

**10 Volt (13 Volt Surge)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case DxDL (mm)	Case DxDL (In.)	LS (In.)	Price Each			
					1	50	100	500
539-TKR10V100	100	5 x 11	.20 x .44	.10	.13	.12	.098	.079

**16 Volt (20 Volt Surge)**

For quantities greater than listed, call for quote.

539-TKR16V33	33	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR16V47	47	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR16V100	100	6.3 x 11	.25 x .44	.10	.13	.12	.098	.079
539-TKR16V220	220	8 x 11	.31 x .44	.14	.21	.19	.16	.12
539-TKR16V330	330	8 x 11	.31 x .44	.14	.28	.24	.20	.16
539-TKR16V470	470	10 x 13	.40 x .51	.20	.33	.29	.23	.19
539-TKR16V1000	1000	10 x 21	.40 x .83	.20	.48	.41	.34	.27
539-TKR16V2200	2200	13 x 21	.51 x .83	.20	.85	.72	.60	.48
539-TKR16V4700	4700	16 x 32	.63 x 1.26	.30	1.87	1.61	1.33	1.05

**25 Volt (32 Volt Surge)**

For quantities greater than listed, call for quote.

539-TKR25V22	22	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR25V33	33	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR25V47	47	5 x 11	.20 x .44	.08	.13	.12	.098	.079
539-TKR25V100	100	6.3 x 11	.25 x .44	.10	.18	.16	.12	.10
539-TKR25V220	220	8 x 11	.31 x .44	.14	.28	.24	.20	.16
539-TKR25V330	330	10 x 13	.39 x .51	.16	.37	.33	.27	.21
539-TKR25V470	470	10 x 16	.40 x .63	.20	.40	.34	.28	.23
539-TKR25V1000	1000	13 x 21	.51 x .83	.20	.70	.60	.50	.40
539-TKR25V2200	2200	13 x 26	.51 x 1.02	.20	1.27	.92	.86	.71

**35 Volt (44 Volt Surge)**

For quantities greater than listed, call for quote.

539-TKR35V1000	1000	13 x 21	.51 x .83	.20	.86	.74	.62	.49
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**50 Volt (63 Volt Surge)**

For quantities greater than listed, call for quote.

539-TKR50V1.0	1.0	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR50V2.2	2.2	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR50V3.3	3.3	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR50V4.7	4.7	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR50V10	10	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR50V22	22	5 x 11	.20 x .44	.08	.13	.12	.098	.079
539-TKR50V33	33	6.3 x 11	.25 x .44	.10	.18	.16	.13	.10
539-TKR50V47	47	6.3 x 11	.25 x .44	.10	.18	.16	.13	.10
539-TKR50V100	100	8 x 11	.31 x .44	.14	.28	.24	.19	.16
539-TKR50V220	220	10 x 16	.40 x .63	.20	.40	.34	.28	.23
539-TKR50V330	330	10 x 21	.40 x .83	.20	.53	.45	.38	.30
539-TKR50V470	470	13 x 21	.51 x .83	.20	.65	.56	.46	.37
539-TKR50V1000	1000	16 x 25	.63 x .98	.30	1.27	.92	.86	.71
539-TKR50V2200	2200	18 x 35	.71 x 1.38	.30	2.27	1.96	1.68	1.36

**100 Volt (125 Volt Surge)**

For quantities greater than listed, call for quote.

539-TKR100V0.47	.47	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR100V1.0	1.0	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR100V2.2	2.2	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR100V3.3	3.3	5 x 11	.20 x .44	.08	.11	.09	.073	.058
539-TKR100V4.7	4.7	5 x 11	.20 x .44	.08	.12	.11	.085	.068
539-TKR100V10	10	6.3 x 11	.25 x .44	.10	.18	.16	.13	.10
539-TKR100V22	22	8 x 11	.31 x .44	.14	.23	.20	.16	.13
539-TKR100V33	33	10 x 13	.40 x .51	.20	.34	.29	.24	.19
539-TKR100V47	47	10 x 16	.40 x .63	.20	.37	.33	.26	.21
539-TKR100V100	100	13 x 21	.51 x .83	.20	.64	.48	.40	.32
539-TKR100V220	220	16 x 25	.63 x .98	.30	1.23	1.05	.87	.70
539-TKR100V330	330	16 x 25	.63 x .98	.30	1.51	1.29	1.08	

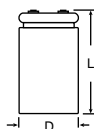
# Aluminum Electrolytic Capacitors

## MALLORY COMPUTER GRADE ALUMINUM ELECTROLYTICS

### Specifications:

- Temperature range: -40° to +85°C

Mounting Hardware Sold Separately



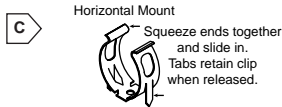
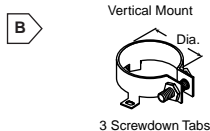
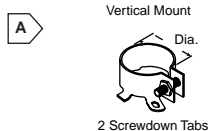
Mallory CGS Series Equivalents	
Collins - CES Series	
Cornell Dubilier - FAH Series	
General Electric - 86F Series	
Meppco-electra - 3186/91C & 91F Series	
Nichicon - NSB Series	
Rubycon - LSA Series	
Sangamo - 500, DCM Series	
Sprague - 36D, 36DX Series	

MOUSER STOCK NO.	WVDC	Capacitance (μF)	Case DxDL (in.)	Price Each			
				1	25	50	100
539-CGS16V15000	16	15000	1.375 x 2.625	10.21	8.63	7.28	5.70
539-CGS16V17000	16	17000	1.375 x 3.125	10.68	9.03	7.63	5.97
539-CGS16V23000	16	23000	2.0 x 3.125	12.95	10.94	9.24	7.24
539-CGS16V38000	16	38000	2.0 x 3.125	14.72	12.45	10.50	8.23
539-CGS16V50000	16	50000	2.0 x 3.125	17.61	14.88	11.68	9.84
539-CGS16V55000	16	55000	1.375 x 3.625	17.51	14.80	11.50	9.80
539-CGS16V100000	16	100000	3.0 x 5.125	41.99	35.50	29.96	23.48
539-CGS16V110000	16	110000	2.5 x 4.125	29.30	24.77	20.91	16.37
539-CGS16V120000	16	120000	3.0 x 3.625	38.48	32.53	27.46	21.51
539-CGS16V210000	16	210000	3.0 x 5.875	45.36	38.35	32.37	25.35
539-CGS25V5600	25	5,600	1.375 x 3.125	9.47	8.01	6.77	5.30
539-CGS25V8900	25	8,900	1.375 x 3.125	9.91	8.38	7.07	4.50
539-CGS25V12000	25	12,000	1.375 x 3.125	12.95	10.94	9.24	7.24
539-CGS25V18000	25	18,000	1.375 x 4.125	13.13	11.11	9.37	7.35
539-CGS25V20000	25	20,000	2.0 x 3.125	14.48	12.25	10.33	8.10
539-CGS25V29000	25	29,000	2.0 x 4.125	15.97	13.50	11.40	8.93
539-CGS25V41000	25	41,000	2.0 x 4.125	18.14	15.33	12.95	10.13
539-CGS30V8000	30	8,000	1.375 x 3.125	9.86	8.34	7.04	5.51
539-CGS30V12000	30	12,000	1.375 x 4.125	11.31	9.55	8.07	6.32
539-CGS30V100000	30	100,000	3.0 x 5.625	49.89	42.17	35.60	27.88
539-CGS35V12000	35	12,000	1.375 x 4.125	11.64	9.85	8.31	6.52
539-CGS35V21000	35	21,000	2.0 x 3.125	15.97	13.50	11.40	8.93
539-CGS40V2200	40	2,200	1.375 x 2.125	8.86	7.49	6.33	4.95
539-CGS40V2700	40	2,700	1.375 x 2.125	8.86	7.49	6.33	4.95
539-CGS40V3500	40	3,500	1.375 x 2.125	9.09	7.69	6.50	5.09
539-CGS40V4200	40	4,200	1.375 x 3.125	10.24	8.66	7.31	5.73
539-CGS40V5100	40	5,100	1.375 x 3.125	9.82	8.31	7.01	5.49
539-CGS40V9000	40	9,000	1.375 x 4.125	12.18	10.29	8.69	6.80
539-CGS40V9300	40	9,300	2.0 x 3.125	14.05	11.88	10.03	7.86
539-CGS40V11000	40	11,000	2.0 x 3.125	14.53	12.28	10.37	8.12
539-CGS40V13000	40	13,000	2.0 x 4.125	15.35	12.97	10.96	8.58
539-CGS40V17000	40	17,000	2.0 x 4.125	16.99	14.36	12.13	9.49
539-CGS40V20000	40	20,000	2.0 x 5.625	19.78	16.71	14.10	11.04
539-CGS40V23000	40	23,000	2.0 x 4.125	18.66	15.77	13.32	10.44
539-CGS40V35000	40	35,000	2.0 x 5.625	23.52	19.89	16.79	13.16
539-CGS40V40000	40	40,000	2.5 x 4.125	35.02	29.60	24.99	19.57
539-CGS50V1600	50	1,600	1.375 x 2.125	8.71	7.37	6.21	4.87
539-CGS50V2200	50	2,200	1.375 x 2.125	8.86	7.49	6.33	4.95
539-CGS50V2900	50	2,900	1.375 x 3.125	9.86	8.34	7.04	5.51
539-CGS50V4100	50	4,100	1.375 x 3.125	10.73	9.08	7.66	6.00
539-CGS50V4300	50	4,300	1.375 x 4.125	12.18	10.29	8.69	6.80
539-CGS50V5000	50	5,000	1.375 x 3.125	11.54	9.77	8.24	6.45
539-CGS50V6100	50	6,100	1.375 x 4.125	11.03	9.32	7.87	6.16

## COMPUTER GRADE ALUMINUM ELECTROLYTICS (cont.)

MOUSER STOCK NO.	WVDC	Capacitance (μF)	Case DxDL (in.)	Price Each			
				1	25	50	100
539-CGS50V6500	50	6,500	2.0 x 3.125	14.10	11.92	10.06	7.88
539-CGS50V9600	50	9,600	2.0 x 4.125	15.54	13.14	11.09	8.69
539-CGS50V10000	50	10,000	1.375 x 4.125	12.80	10.82	9.13	7.16
539-CGS50V15000	50	15,000	2.0 x 4.125	17.61	14.88	12.56	9.84
539-CGS50V18000	50	18,000	2.0 x 3.125	18.81	15.90	13.42	10.52
539-CGS50V20000	50	20,000	2.0 x 4.125	20.21	17.08	14.42	11.30
539-CGS50V25000	50	25,000	2.5 x 4.125	30.06	25.41	21.45	16.80
539-CGS75V1500	75	1,500	1.375 x 3.125	9.77	8.26	6.97	5.46
539-CGS75V2100	75	2,100	1.375 x 3.125	10.21	8.63	7.28	5.70
539-CGS75V2900	75	2,900	1.375 x 3.125	10.29	8.71	7.36	5.76
539-CGS75V4200	75	4,200	1.375 x 4.125	11.75	9.92	8.38	6.56
539-CGS75V4800	75	4,800	2.0 x 3.125	14.53	12.28	10.37	8.12
539-CGS75V10000L	75	10,000	2.0 x 4.125	19.78	16.71	14.10	11.04
539-CGS75V10000S	75	10,000	2.0 x 3.125	19.44	16.44	13.88	10.87
539-CGS75V17000	75	17,000	3.0 x 4.125	40.07	33.87	28.59	22.39
539-CGS75V25000L	75	25,000	2.5 x 5.625	45.46	38.43	32.44	25.41
539-CGS75V25000S	75	25,000	3.0 x 4.125	41.89	35.41	29.89	23.41
539-CGS100V1200	100	1,200	1.375 x 3.125	10.24	8.66	7.31	5.73
539-CGS100V1700	100	1,700	1.375 x 3.125	10.63	8.98	7.59	5.94
539-CGS100V4000	100	4,000	2.0 x 4.125	16.74	14.16	11.95	9.36
539-CGS100V10000	100	10,000	2.5 x 4.125	34.06	28.79	24.30	19.03
539-CGS100V15000	100	15,000	2.5 x 5.625	38.72	32.73	27.63	21.64
539-CGS150V400	150	400	1.375 x 2.125	9.34	7.89	6.67	5.22
539-CGS150V720	150	720	1.375 x 3.125	11.80	9.97	8.41	6.60
539-CGS150V3500	150	3,500	2.0 x 5.625	21.85	18.47	15.59	12.21
539-CGS150V8700	150	8,700	3.0 x 5.875	47.18	39.89	33.67	26.37
539-CGS200V1000	200	1,000	1.375 x 4.125	14.00	11.83	9.99	7.83
539-CGS200V2000	200	2,000	2.0 x 4.125	21.50	18.18	15.35	12.02
539-CGS200V7400	200	7,400	3.0 x 5.625	72.92	61.64	52.03	40.76
539-CGS200V7700	200	7,700	3.0 x 5.625	73.84	62.41	52.69	41.27
539-CGS250V200	250	200	1.375 x 2.125	10.16	8.58	7.24	5.67
539-CGS250V550	250	550	1.375 x 4.125	13.43	11.35	9.59	7.51
539-CGS250V1200	250	1,200	2.0 x 3.125	19.34	16.34	13.80	9.66
539-CGS250V6000	250	6,000	3.0 x 5.625	66.14	55.91	47.19	36.96
539-CGS350V3300	350	3,300	3.0 x 5.625	73.59	62.21	52.51	41.12
539-CGS450V75	450	75	1.375 x 2.125	9.72	8.21	6.94	5.43
539-CGS450V100	450	100	1.375 x 2.125	10.29	8.71	7.36	5.76
539-CGS450V140	450	140	1.375 x 3.125	11.98	10.12	8.56	6.69
539-CGS450V210	450	210	1.375 x 4.125	14.05	11.88	10.03	7.86
539-CGS450V320	450	320	2.0 x 3.125	24.00	20.29	17.14	13.41
539-CGS450V350	450	350	1.375 x 5.125	20.06	16.96	14.32	11.22
539-CGS450V400	450	400	1.375 x 5.625	19.83	16.73	14.15	11.08
539-CGS450V450	450	450	2.0 x 3.125	21.88	18.50	15.62	12.23
539-CGS450V480	450	480	2.0 x 4.125	23.18	19.59	16.55	12.96
539-CGS450V650	450	650	2.0 x 4.125	27.71	23.43	19.77	15.49
539-CGS450V800	450	800	2.0 x 4.625	32.52	27.49	23.20	18.18
539-CGS450V1000	450	1,000	2.5 x 4.125	48.20	40.74	34.40	26.93
539-CGS450V1100	450	1,100	3.0 x 4.125	54.55	46.11	38.93	30.48
539-CGS450V1500	450	1,500	3.0 x 4.125	66.34	56.08	47.34	37.08
539-CGS450V1800	450	1,800	3.0 x 5.875	63.25	53.47	45.14	35.35
539-CGS450V2000	450	2,000	3.0 x 5.125	68.44	57.86	48.84	38.26
539-CGS450V2400	450	2,400	3.0 x 5.625	91.39	77.25	65.21	51.08
539-CGS450V3300	450	3,300	3.0 x 5.625	118.71	100.35	84.70	66.34

## MALLORY MOUNTING HARDWARE

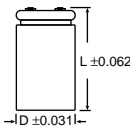


MOUSER STOCK NO.	Fig.	Diameter (in.)	Price Each	
			1	10
539-VR3	A	1.375-1.44	.65	.61
539-VR6	B	1.75-1.81	1.41	1.32
539-VR8	B	2-2.06	1.07	.99
539-VR10	B	2.5-2.56	1.79	1.68
539-VR12	B	3-3.125	1.48	1.39
539-TH25	C	1.375-1.44	1.40	1.31

## CORNELL DUBILIER HIGH CAPACITANCE COMPUTER GRADE TYPE DCMX-MAXIMUM CAPACITANCE SERIES

Designed for use where large capacitance, low ESR and high ripple current are required.

- Tolerance: <math>\pm 20\%</math> VDC = -10 to +75%
- Temperature range: -40°C to +85°C
- Voltage range: 16VDC to 450VDC
- 1000 hours full-ripple life test at +85°C
- 100 hours shelf life test at +85°C
- Leakage current  $\le 0.005\text{CV} \mu\text{A}$  (6 mA max.)



### DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type DCMX	WVDC	Value (μF)	Case DxDL (in.)	Price Each		
					1	50	100
5986-16V20000	203U016AK2B	16	20,000	1.375 x 1.625	9.70	8.10	7.36
5986-16V58000	583U016AB2B	16	58,000	1.375 x 3.125	19.08	15.94	14.49

MOUSER STOCK NO.	Mfr's Type DCMX	WVDC	Value (μF)	Case DxDL (in.)	Price Each		
					1	50	100
5986-16V85000	853U016AC2B	16	85,000	1.375 x 4.125	24.55	20.49	18.63
5986-16V180000	184U016BC2B	16	180,000	2.000 x 4.125	46.70	38.98	35.44
5986-25V39000	393U025AB2B	25	39,000	1.375 x 3.125	20.45	16.36	13.58
5986-25V57000	573U025AC2B	25	57,000	1.375 x 4.125	26.50	22.13	20.12
5986-25V120000	124U025BC2B	25	120,000	2.000 x 4.125	50.60	42.24	38.40
5986-50V12000	123U050AH2B	50	12,000	1.375 x 2.625	18.10	14.48	

# Aluminum Electrolytic Capacitors

## CDE CORNELL DUBILIER SMT POLYMER ALUMINUM TYPE ESR

### Specifications:

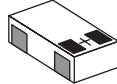
- Operating temperature range: -55°C to +105°C
- Surge voltage: 125% rated working VDC
- Capacitance range: 2.2µF to 47µF
- Capacitance tolerance: 20% @ 120Hz and +20°C
- DC leakage current: apply rated working voltage @ +20°C
- Maximum DC current rating: 2.0ADC between terminals of the same polarity

### Features:

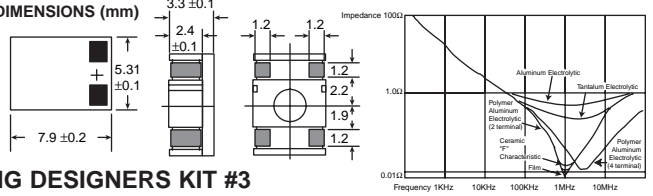
- Lowest ESR - from 10mΩ
- High ripple current rating - up to 1.6A
- Ultra stable - no change from -55°C to +105°C
- Best high frequency filtering performance - 100KHz and up
- Reduced parts count - replaces three or more tantalum caps
- Deliver more energy and higher peak current to a load faster
- Ideal input and output cap. for 'Buck' switching regulators
- Inherently more reliable - 100 year life expectancy

MOUSER STOCK NO.	Manufacturer's Type - ESR	Voltage	Value (µF)	Price Each			
				1	100	500	1000
5987-6.3V47	470M0J000B	6.3	47	3.41	2.16	1.47	1.37
5987-6.3V10	100M0J000B	6.3	10	1.92	1.21	.82	.77
5987-6.3V22	220M0J000B	6.3	22	2.32	1.46	.99	.93
5987-6.3V33	330M0J000B	6.3	33	2.82	1.78	1.21	1.13
5987-8V8.2	8R2M0K000B	8	8.2	1.92	1.21	.82	.77
5987-8V15	150M0K000B	8	15	2.32	1.46	.99	.93
5987-8V22	220M0K000B	8	22	2.82	1.78	1.21	1.13
5987-8V33	330M0K000B	8	33	3.41	2.16	1.47	1.37
5987-12.5V4.7	4R7M1B000B	12.5	4.7	1.92	1.21	.82	.77
5987-12.5V10	100M1B000B	12.5	10	2.32	1.46	.99	.93
5987-12.5V15	150M1B000B	12.5	15	2.82	1.78	1.21	1.13
5987-12.5V22	220M1B000B	12.5	22	3.41	2.16	1.47	1.37
5987-16V2.2	2R2M1C000B	16	2.2	1.92	1.21	.82	.77
5987-16V4.7	4RFM1C000B	16	4.7	2.32	1.46	.99	.93
5987-16V6.8	6R8M1C000B	16	6.8	2.82	1.78	1.21	1.13
5987-16V10	100M1C000B	16	10	3.41	2.16	1.47	1.37

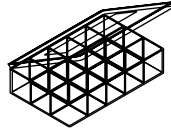
Available on Reels of 3,000.



### DIMENSIONS (mm)



## ENGINEERING DESIGNERS KIT #3



### Contains:

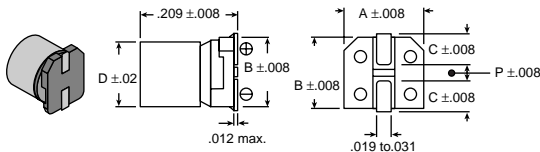
- 36 pieces
- 6 different values
- Keyed for easy use

MOUSER STOCK NO.	Type	No. of Pieces Each Value	Value	Price Each
5987-KIT3	ESR 6.3V ± 20%	6	33µF, 47µF	66.80
	ESR 8V ± 20%	6	22µF	
	ESR 12.5V ± 20%	6	4.7µF, 6.8µF	
	ESR 16V ± 20%	6	10µF	

## ELNA SMD ALUMINUM ELECTROLYTICS RV2J Series

### Specifications:

- Oper. tem. range: -55°C to +105°C
- Leakage current: less than 0.01 CV (µA)
- Capacitance tol.: ±20%



### DIMENSIONS (IN.)

To order reels, add "REEL" to Mouser Stock No.

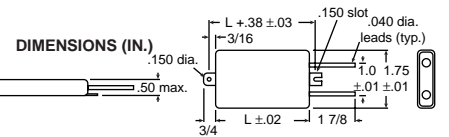
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Volt (DC)	Cap. (µF)	Dia. (D)	A	B	C	P	Price Each				Price Per Reel of
								1	100	500	1000	
555-6.3V100	6.3	100	.248	.260	.260	.106	.079	.54	.47	.34	217.80	-----
555-16V47	16	47	.248	.260	.260	.106	.079	.54	.47	.34	217.80	-----
555-25V33	25	33	.248	.260	.260	.106	.079	.54	.47	.34	217.80	-----
555-35V10	35	10	.197	.209	.209	.055	.055	.51	.44	.32	199.65	-----
555-35V22	35	22	.248	.260	.260	.079	.079	.49	.43	.31	199.65	-----
555-50V1.0	50	1.0	.157	.169	.169	.079	.039	.41	.36	.25	363.00	-----
555-50V2.2	50	2.2	.157	.169	.169	.079	.039	.41	.36	.25	363.00	-----
555-50V4.7	50	4.7	.197	.209	.209	.079	.055	.46	.41	.29	199.65	-----

## CDE CORNELL DUBILIER FLATPACK ALUMINUM INPUT CAPACITORS

### Features:

- Height: Less than 1/2 inch
- Capacitance: 220 to 20,000µF
- Voltage: 25 to 300 VDC
- Operates: -55°C to 85°C
- 2,000-Hour life test: 85°C



### Type MLP:

- Computer power supply modules
- Military
- Telemoc
- Circuit cards

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfg. Type (MLP)	WVDC	Capacitance (µF)	Length (In.)	Price Each		
					1	10	25
5987-25V203	203M025EB1A	25	20000	3.00	35.46	33.24	32.13
5987-50V442	442M050EK1A	50	4400	1.50	28.56	26.78	25.88
5987-50V113	113M050EB1A	50	11000	3.00	35.46	33.24	32.13
5987-63V222	222M063EK1A	63	2200	1.50	28.56	26.78	25.88
5987-80V332	332M080EB1A	80	3300	3.00	35.46	33.24	32.13
5987-200V102	102M200EB1A	200	1000	3.00	35.46	33.24	32.13
5987-200V401	401M200EK1A	200	400	1.5	28.56	26.78	25.88
5987-200V501	501M200EK1A	200	500	1.5	28.56	26.78	25.88
5987-250V331	331M250EK1A	250	330	1.5	28.56	26.78	25.88
5987-250V821	821M250EB1A	250	820	3.00	35.46	33.24	32.13
5987-300V221	221M300EK1A	300	220	1.50	28.56	26.78	25.88
5987-300V561	561M300EB1A	300	560	3.00	35.46	33.24	32.13

## CDE CORNELL DUBILIER SNAPMOUNT ALUMINUM ELECTROLYTICS

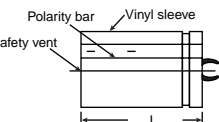
### 380LX, 85°C Series

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type	WVDC	Value (µF)	Case D x L (mm)	Price Each		
					1	10	100
5985-85-25V6800	682M025H022	25	6,800	22 x 30	2.82	2.29	1.88
5985-85-25V10000	103M025H032	25	10,000	22 x 35	3.25	2.65	2.17
5985-85-25V22000	223M025J052	25	22,000	25 x 50	5.18	4.22	3.46
5985-85-35V5600	562M035H022	35	5,600	22 x 30	3.03	2.47	2.02
5985-85-35V10000	103M035K022	35	10,000	30 x 30	4.37	3.56	2.91
5985-85-35V15000	153M035J052	35	15,000	25 x 50	5.25	4.28	3.50
5985-85-35V22000	223M035A042	35	22,000	35 x 40	7.68	6.26	5.12
5985-85-50V3300	332M050H022	50	3,300	22 x 30	3.08	2.51	2.05
5985-85-50V4700	472M050H032	50	4,700	22 x 35	3.59	2.92	2.39
5985-85-50V6800	682M050K022	50	6,800	30 x 30	4.78	3.89	3.19
5985-85-63V4700	472M063K022	63	4,700	30 x 30	4.70	3.83	3.14
5985-85-63V8200	822M063A032	63	8,200	35 x 35	7.15	5.83	4.77
5985-85-80V680	681M101H202	80	680	22 x 20	2.66	2.17	1.78
5985-85-100V1000	1022M100H022	100	1,000	22 x 30	3.21	2.62	2.14
5985-85-200V220	221M200J202	200	220	25 x 20	2.82	2.30	1.88
5985-85-200V330	331M200J012	200	330	25 x 25	3.22	2.62	2.15
5985-85-200V470	471M200J022	200	470	25 x 30	3.63	2.96	2.42
5985-85-200V680	681M200J032	200	680	25 x 35	4.52	3.68	3.01
5985-85-200V2200	222M200A052	200	2,200	35 x 50	11.47	9.34	7.64
5985-85-250V220	221M250H022	250	220	22 x 30	3.36	2.80	2.02
5985-85-250V330	331M250H032	250	330	22 x 35	3.98	3.32	2.39
5985-85-250V470	471M250J042	250	470	25 x 40	4.92	4.10	2.96
5985-85-250V680	681M250A022	250	680	35 x 30	7.19	5.99	4.31
5985-85-250V1000	102M250K052	250	1,000	30 x 50	8.87	7.39	5.32
5985-85-400V100	101M400H022	400	100	22 x 30	3.74	3.11	2.24
5985-85-450V47	470M450J202	450	47	25 x 20	3.75	3.13	2.25
5985-85-450V68	680M450H022	450	68	22 x 30	3.58	2.99	2.15
5985-85-450V100	101M450J022	450	100	25 x 30	4.28	3.56	2.57
5985-85-450V120	121M450J222	450	120	25 x 30	4.70	3.92	2.82
5985-85-450V220	221M450J052	450	220	25 x 50	7.21	6.01	4.33
5985-85-450V330	331M450A042	450	330	35 x 40	10.71	8.93	6.43

### Specifications for 380LX Series:

- Tolerance: ±20%
- Temperature range: -40°C to +85°C
- Life test: 2000 hours @ +85°C at full load
- Shelf test: 1000 hours @ +85°C



### Specifications for 381LX Series:

- Tolerance: ±20%
- Temperature range: -40°C to +105°C
- Voltage range: 16 VDC to 450 VDC
- Full ripple life @ rated temperature: 2,000 hours
- Shelf life test @ rated temperature: 1,000 hours

### 381LX, 105°C Series

For quantities greater than listed, call for quote.

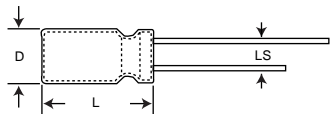
MOUSER STOCK NO.	Mfr's Type	WVDC	Value (µF)	Case D x L (mm)	Price Each		
					1	10	100
5985-16V10000	103M016J012	16	10,000	25 x 25	2.97	2.41	1.97
5985-16V15000	153M016J032	16	15,000	25 x 35	3.45	2.81	2.30
5985-25V10000	103M025J032	25	10,000	25 x 35	3.65	2.97	2.43
5985-25V15000	153M025J452	25	15,000	25 x 45	4.63	3.78	3.09
5985-35V10000	103M035J052	35	10,000	25 x 50	4.77	3.88	3.18
5985-200V220	221M200H012	200	220	22 x 25	2.78	2.26	1.85
5985-200V330	331M200J012	200	330	25 x 25	3.36	2.73	2.24
5985-200V470	471M200J032	200	470	25 x 35	3.95	3.22	2.63
5985-200V680	681M200J042	200	680	25 x 40	4.82	3.93	3.22
5985-200V1000	102M200K452	200	1,000	30 x 45	6.91	5.63	4.61
5985-200V1500	152M200A042	200	1,500	35 x 40	9.37	7.63	6.25
5985-250V180	181M250J012	250	180	25 x 25	3.45	2.88	2.07
5985-250V390	391M250J032	250	390	25 x 35	4.89	4.08	2.94
5985-250V470	471M250J452	250	470	25 x 45	5.64	4.70	3.38
5985-250V680	681M250K452	250	680	30 x 45	7.75	6.46	4.65
5985-250V1000	102M250A452	250	1,000	35 x 45	10.44	8.70	6.27
5985-400V47	470M400H012	400	47	22 x 25	3.14	2.62	1.88
5985-450V150	151M450K022	450	150	30 x 30	6.80	5.67	4.08
5985-450V100	101M450J042	450	100	25 x 40	5.08	4.23	3.05
5985-450V220	221M450K052	450	220	30 x 50	9.77	8.14	5.86
5985-450V330	331M450A042	450	330	35 x 40	12.83	10.69	7.70
5985-450V470	471M450A052	450	470	35 x 50	15.24	11.29	10.16

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## TYPE 515D ALUMINUM CAPACITORS

### +85°C Miniature Radial Lead

- Operating temperature: -40°C to +85°C
- Capacitance tolerance: ±20%
- Life validation test: 2000 hours @ +85°C
- High CV per case size
- Solvent resistant construction (through 100 WVDC)

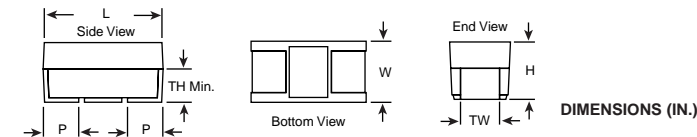


For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Value (µF)	Case Size D x L (In.)	LS	Price Each			
					1	25	100	250
75-515D10V47	10	47	.197 x .433	.079	.12	.08	.06	.05
75-515D10V100	10	100	.197 x .433	.079	.13	.10	.07	.06
75-515D10V220	10	220	.248 x .433	.098	.17	.13	.09	.08
75-515D10V330	10	330	.315 x .453	.138	.22	.16	.12	.10
75-515D10V470	10	470	.315 x .453	.138	.24	.18	.13	.11
75-515D10V1000	10	1000	.394 x .630	.197	.38	.29	.21	.17
75-515D10V2200	10	2200	.492 x .787	.197	.68	.51	.37	.31
75-515D10V3300	10	3300	.492 x .984	.197	1.00	.75	.55	.45
75-515D10V4700	10	4700	.630 x .984	.295	1.32	.99	.73	.60
75-515D10V6800	10	6800	.630 x 1.240	.295	2.01	1.51	1.10	.90
75-515D10V10000	10	10000	.709 x 1.398	.295	2.62	1.97	1.44	1.18
75-515D10V15000	10	15000	.709 x 1.575	.295	2.68	2.01	1.47	1.21
75-515D16V33	16	33	.197 x .433	.079	.12	.08	.06	.05
75-515D16V47	16	47	.197 x .433	.079	.13	.10	.07	.06
75-515D16V100	16	100	.248 x .433	.098	.15	.11	.08	.07
75-515D16V220	16	220	.315 x .453	.138	.17	.13	.09	.08
75-515D16V330	16	330	.315 x .453	.138	.24	.18	.13	.11
75-515D16V470	16	470	.394 x .492	.197	.30	.23	.17	.14
75-515D16V1000	16	1000	.394 x .787	.197	.50	.38	.28	.23
75-515D16V2200	16	2200	.492 x .984	.197	1.04	.78	.57	.47
75-515D16V3300	16	3300	.630 x .984	.295	1.45	1.09	.80	.65
75-515D16V4700	16	4700	.630 x 1.240	.295	1.95	1.46	1.07	.88
75-515D16V6800	16	6800	.709 x 1.398	.295	2.62	1.97	1.44	1.18
75-515D16V10000	16	10000	.709 x 1.575	.295	2.68	2.01	1.47	1.21
75-515D25V10	25	10	.197 x .433	.079	.12	.08	.06	.05
75-515D25V22	25	22	.197 x .433	.079	.13	.10	.07	.06
75-515D25V33	25	33	.197 x .433	.079	.13	.10	.07	.06
75-515D25V47	25	47	.197 x .433	.079	.15	.11	.08	.07
75-515D25V100	25	100	.248 x .433	.098	.17	.13	.09	.08
75-515D25V220	25	220	.315 x .453	.138	.24	.18	.13	.11
75-515D25V330	25	330	.394 x .492	.197	.30	.23	.17	.14
75-515D25V470	25	470	.394 x .630	.197	.41	.31	.22	.18
75-515D25V1000	25	1000	.492 x .787	.197	.68	.51	.37	.31
75-515D25V2200	25	2200	.630 x .984	.295	1.45	1.09	.80	.65
75-515D25V3300	25	3300	.630 x 1.240	.295	1.95	1.46	1.07	.88
75-515D25V4700	25	4700	.709 x 1.398	.295	2.62	1.97	1.44	1.18
75-515D35V10	35	10	.197 x .433	.079	.12	.08	.06	.05
75-515D35V22	35	22	.197 x .433	.079	.13	.10	.07	.06
75-515D35V33	35	33	.197 x .433	.079	.15	.11	.08	.07
75-515D35V47	35	47	.248 x .433	.098	.15	.11	.08	.07
75-515D35V100	35	100	.315 x .453	.138	.22	.16	.12	.10
75-515D35V220	35	220	.394 x .492	.197	.30	.23	.17	.14
75-515D35V330	35	330	.394 x .630	.197	.40	.30	.22	.18
75-515D35V470	35	470	.394 x .787	.197	.50	.38	.28	.23
75-515D35V1000	35	1000	.492 x .984	.197	.24	.18	.13	.11
75-515D35V2200	35	2200	.630 x 1.240	.295	1.74	1.31	.96	.78

MOUSER STOCK NO.	WVDC	Value (µF)	Case Size D x L (In.)	LS	Price Each				Price Per Reel of 500	Price Per Reel of 2000
					1	25	100	250		
75-515D35V3300	35	3300	.709 x 1.398	.295	2.62	1.97	1.44	1.18	---	---
75-515D35V4700	35	4700	.709 x 1.598	.295	2.80	2.10	1.54	1.26	---	---
75-515D50V10	50	0.47	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D50V1.0	50	1.0	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D50V2.2	50	2.2	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D50V3.3	50	3.3	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D50V4.7	50	4.7	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D50V10	50	10	.197 x .433	.079	.13	.10	.07	.06	---	---
75-515D50V22	50	22	.197 x .433	.079	.15	.11	.08	.07	---	---
75-515D50V33	50	33	.248 x .433	.098	.17	.13	.09	.08	---	---
75-515D50V47	50	47	.248 x .433	.098	.17	.13	.09	.08	---	---
75-515D50V100	50	100	.315 x .453	.138	.30	.23	.17	.14	---	---
75-515D50V220	50	220	.394 x .630	.197	.45	.34	.25	.20	---	---
75-515D50V330	50	330	.394 x .787	.197	.52	.39	.29	.23	---	---
75-515D50V470	50	470	.492 x .787	.197	.76	.57	.42	.34	---	---
75-515D50V1000	50	1000	.630 x .984	.295	1.20	.90	.66	.54	---	---
75-515D50V2200	50	2200	.709 x 1.398	.295	2.62	1.97	1.44	1.18	---	---
75-515D100V0.47	100	0.47	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D100V1.0	100	1.0	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D100V2.2	100	2.2	.197 x .433	.079	.12	.08	.06	.05	---	---
75-515D100V3.3	100	3.3	.197 x .433	.079	.13	.10	.07	.06	---	---
75-515D100V4.7	100	4.7	.197 x .433	.079	.13	.10	.07	.06	---	---
75-515D100V10	100	10	.248 x .433	.098	.17	.13	.09	.08	---	---
75-515D100V22	100	22	.315 x .453	.138	.22	.16	.12	.10	---	---
75-515D100V47	100	47	.394 x .630	.197	.33	.25	.18	.15	---	---
75-515D100V100	100	100	.492 x .787	.197	.60	.45	.33	.27	---	---
75-515D100V220	100	220	.630 x .984	.295	1.08	.81	.59	.48	---	---
75-515D100V330	100	330	.630 x .984	.295	1.20	.90	.66	.54	---	---
75-515D100V470	100	470	.630 x 1.240	.295	1.70	1.28	.94	.77	---	---
75-515D160V2.2	160	2.2	.248 x .433	.098	.25	.19	.14	.11	---	---
75-515D160V3.3	160	3.3	.315 x .453	.138	.32	.24	.18	.14	---	---
75-515D160V4.7	160	4.7	.315 x .453	.138	.32	.24	.18	.14	---	---
75-515D160V10	160	10	.394 x .492	.197	.40	.30	.22	.18	---	---
75-515D160V22	160	22	.394 x .787	.197	.58	.44	.32	.26	---	---
75-515D160V47	160	47	.492 x .984	.197	.85	.64	.47	.38	---	---
75-515D160V100	160	100	.630 x .984	.295	1.33	1.00	.73	.60	---	---
75-515D160V220	160	220	.709 x 1.398	.295	2.62	1.97	1.44	1.18	---	---
75-515D250V1.0	250	1.0	.248 x .433	.098	.25	.19	.14	.11	---	---
75-515D250V2.2	250	2.2	.315 x .453	.138	.32	.24	.18	.14	---	---
75-515D250V3.3	250	3.3	.394 x .492	.197	.32	.24	.18	.14	---	---
75-515D250V4.7	250	4.7	.394 x .492	.197	.40	.30	.22	.18	---	---
75-515D250V10	250	10	.394 x .787	.197	.58	.44	.32	.26	---	---
75-515D250V47	250	47	.630 x .984	.295	1.33	1.00	.73	.60	---	---
75-515D250V100	250	100	.709 x 1.398	.295	2.70	2.02	1.48	1.21	---	---
75-515D350V1.0	350	1.0	.315 x .453	.138	.28	.21	.15	.12	---	---
75-515D350V3.3	350	3.3	.394 x .630	.197	.50	.38	.28	.23	---	---
75-515D350V4.7	350	4.7	.394 x .630	.197	.50	.38	.28	.23	---	---
75-515D350V22	350	22	.492 x .984	.197	.85	.64	.47	.38	---	---
75-515D350V33	350	33	.630 x 1.240	.295	1.54	1.16	.85	.69	---	---
75-515D350V47	350	47	.709 x 1.398	.295	2.59	1.94	1.43	1.17	---	---
75-515D450V1.0	450	1.0	.394 x .492	.197	.32	.24	.18	.14	---	---
75-515D450V2.2	450	2.2	.394 x .630	.197	.50	.38	.28	.23	---	---
75-515D450V4.7	450	4.7	.492 x .787	.197	.72	.54	.40	.33	---	---
75-515D450V22	450	22	.630 x 1.240	.295	2.27	1.70	1.25	1.02	---	---
75-515D450V33	450	33	.709 x 1.398	.295	2.59	1.94	1.43	1.17	---	---

## TYPE 293D SOLID TANTALUM CHIP CAPACITORS



Case Size	EIA Size	L	W	H	P	TW	TH (Min.)
A	3216	.126±.008	.063±.008	.063±.008	.031±.012	.074±.004	.028
B	3528	.138±.008	.110±.008	.075±.008	.031±.012	.087±.004	.028
C	6032	.236±.012	.126±.012	.098±.012	.051±.012	.087±.004	.039
D	7343	.287±.012	.170±.012	.110±.012	.051±.012	.095±.004	.039
E	7343H	.287±.012	.170±.012	.158±.012	.051±.012	.095±.004	.039

- Compatible with all popular "high volume" automatic pick and place equipment
- Optical character recognition qualified
- Meets IEC Specification QC300801/US0001 and EIA 535BAAC
- Molded case available in six case sizes
- Operating temperature: -55°C to +85°C
- Capacitance tolerance: ±10%

To order reels, add "R" to Mouser Stock No.

For quantities greater than listed, call for quote.

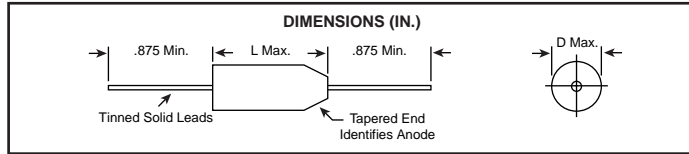
MOUSER STOCK NO.	WVDC	Value (µF)	Case Size	Price Each				Price Per Reel of 500	Price Per Reel of 2000
				1	100	500	1000		
74-293D6.3V3.3	6.3	3.3	A	.36	.26	.24	.21	---	288.00
74-293D6.3V10	6.3	10	B	.42	.29	.27	.24	---	332.00

MOUSER STOCK NO.	WVDC	Value (µF)	Case Size	Price Each				Price Per Reel of 500	Price Per Reel of 2000
				1	100	500	1000		
74-293D6.3V22	6.3	22	C	.63	.44	---	---	125.00	---
74-293D6.3V100	6.3	100	D	.85	.60	---	---	170.00	---
74-293D10V2.2	10	2.2	A	.36	.26	.24	.21	---	288.00
74-293D10V6.8	10	6.8	B	.42	.29	.27	.24	---	332.00
74-293D10V47	10	47							

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## TYPE 173D SOLID TANTALUM CAPACITORS

Improved Type 173D molded case axial-lead TANTALEX® capacitors are designed for high performance automotive, industrial and commercial electronic equipment. Precision molded in gold colored, flame retardant, thermosetting epoxy resin, units are laser marked for improved legibility, while the tapered end of the case provides easy identification of the positive terminal.



Case Size	D (Max.)	L (Max.)	Lead Diameter
U	.095	.260	.020
V	.110	.290	.020
W	.180	.345	.020
X	.180	.420	.020
Y	.280	.550	.025

- Operating temperature: -55°C to +85°C
  - Capacitance tolerance: ±10%
- For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Capacitance (µF)	Case Size	Price Each			
				1	25	50	100
74-173D6V68	6	68	X	.84	.66	.55	.44
74-173D10V10	10	10	V	.40	.32	.27	.21
74-173D10V22	10	22	W	.70	.56	.46	.37
74-173D10V47	10	47	X	.84	.66	.55	.44
74-173D15V2.2	15	2.2	U	.39	.31	.26	.20
74-173D15V6.8	15	6.8	V	.42	.33	.28	.22
74-173D15V15	15	15	W	.70	.56	.46	.37
74-173D15V22	15	22	X	.78	.62	.51	.41
74-173D15V33	15	33	X	.84	.66	.55	.44
74-173D20V1.0	20	1.0	U	.39	.31	.26	.20

MOUSER STOCK NO.	WVDC	Capacitance (µF)	Case Size	Price Each			
				1	25	50	100
74-173D20V4.7	20	4.7	V	.42	.33	.28	.22
74-173D20V22	20	22	X	.84	.66	.55	.44
74-173D20V100	20	100	Y	4.64	3.66	3.05	2.44
74-173D25V1.0	25	1.0	U	.39	.31	.26	.20
74-173D25V2.2	25	2.2	V	.42	.33	.28	.22
74-173D25V3.3	25	3.3	V	.42	.33	.28	.22
74-173D25V6.8	25	6.8	W	.70	.56	.46	.37
74-173D25V10	25	10	W	.70	.56	.46	.37
74-173D25V12	25	12	X	.84	.66	.55	.44
74-173D25V15	25	15	X	.84	.66	.55	.44
74-173D25V47	25	47	Y	3.27	2.58	2.15	1.72
74-173D35V0.1	35	0.1	U	.39	.31	.26	.20
74-173D35V0.33	35	0.33	U	.39	.31	.26	.20
74-173D35V0.47	35	0.47	U	.39	.31	.26	.20
74-173D35V1.0	35	1.0	V	.40	.32	.27	.21
74-173D35V1.5	35	1.5	V	.42	.33	.28	.22
74-173D35V2.2	35	2.2	W	.70	.56	.46	.37
74-173D35V3.3	35	3.3	W	.70	.56	.46	.37
74-173D35V4.7	35	4.7	W	.70	.56	.46	.37
74-173D35V6.8	35	6.8	X	.78	.62	.51	.41
74-173D35V10	35	10	X	.84	.66	.55	.44
74-173D35V22	35	22	Y	1.71	1.35	1.13	.90
74-173D35V47	35	47	Y	4.64	3.66	3.05	2.44
74-173D50V0.1	50	0.10	U	.46	.36	.30	.24
74-173D50V0.22	50	0.22	U	.46	.36	.30	.24
74-173D50V0.47	50	0.47	V	.49	.39	.33	.26
74-173D50V1.0	50	1.0	V	.53	.42	.35	.28
74-173D50V2.2	50	2.2	W	.80	.63	.53	.42
74-173D50V4.7	50	4.7	X	.89	.71	.59	.47

## TYPE 199D SOLID TANTALUM CAPACITORS

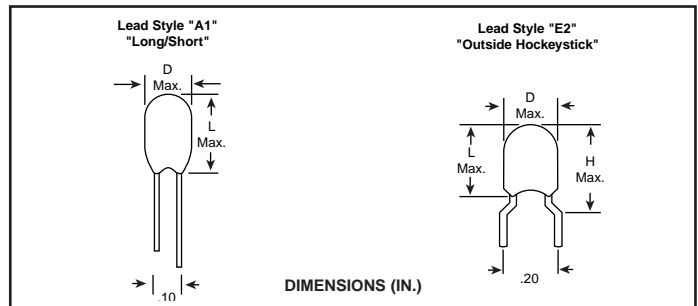
Economy and high performance are combined in Sprague® Type 199D resin-coated, radial-lead, solid-electrolyte TANTALEX® capacitors; these are rugged, reliable capacitors featuring low leakage current and low dissipation factor. They are available in six miniature case sizes and four lead styles suitable for a broad range of consumer, commercial, and industrial equipment.

Case Size	Diameter D (Max.)	Length L (Max.)	Seated Height H (Max.)*	Lead Size	
				AWG No.	Norm. Dia.
A	.177	.280	.340	24	.020
B	.196	.300	.360	24	.020
C	.216	.360	.420	24	.020
D	.236	.400	.460	24	.020
E	.340	.492	.552	24	.020
F	.380	.650	.710	24	.020

\*Maximum seated height is identical to maximum length for units ordered with Lead Style \*A1\*.

- Operating temperature: -55°C to +85°C
  - Capacitance tolerance: ±10%
- For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Capacitance (µF)	Case Size	Lead Style	Price Each			
					1	25	100	500
74-199D6.3V10	6.3	10	B	A1	.35	.30	.27	.19
74-199D6.3V33	6.3	33	C	A1	.55	.48	.43	.30
74-199D6.3V47	6.3	47	D	A1	.69	.60	.54	.38
74-199D6.3V68	6.3	68	D	A1	.85	.74	.67	.46
74-199D6.3V100	6.3	100	D	A1	1.70	1.48	1.33	.93
74-199D6.3V150	6.3	150	E	E2	2.53	2.20	1.98	1.38
74-199D10V4.7	10	4.7	A	A1	.29	.25	.23	.16
74-199D10V10	10	10	B	A1	.35	.30	.27	.19
74-199D10V22	10	22	C	A1	.51	.44	.40	.28
74-199D10V33	10	33	D	A1	.59	.51	.46	.32
74-199D10V100	10	100	E	E2	1.75	1.52	1.37	.95
74-199D10V220	10	220	F	E2	5.75	5.00	4.50	3.13
74-199D16V3.3	16	3.3	A	A1	.28	.24	.22	.15
74-199D16V4.7	16	4.7	B	A1	.35	.30	.27	.19
74-199D16V6.8	16	6.8	B	A1	.41	.36	.32	.22
74-199D16V10	16	10	C	A1	.35	.31	.28	.19
74-199D16V15	16	15	C	A1	.53	.46	.41	.29
74-199D16V22	16	22	D	A1	.58	.50	.45	.31
74-199D16V33	16	33	D	A1	1.17	1.02	.92	.64
74-199D16V47	16	47	E	A1	1.47	1.28	1.15	.80
74-199D16V68	16	68	E	E2	1.89	1.64	1.48	1.03
74-199D16V100	16	100	F	E2	3.31	2.88	2.59	1.80
74-199D20V2.2	20	2.2	A	A1	.28	.24	.22	.15
74-199D20V10	20	10	C	A1	.48	.42	.38	.26
74-199D20V15	20	15	D	A1	.67	.58	.52	.36
74-199D20V22	20	22	D	A1	1.17	1.02	.92	.64
74-199D25V1.5	25	1.5	A	A1	.28	.24	.22	.15
74-199D25V2.2	25	2.2	A	A1	.30	.26	.24	.17
74-199D25V3.3	25	3.3	B	A1	.36	.31	.28	.20
74-199D25V4.7	25	4.7	B	A1	.43	.38	.34	.24



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Capacitance (µF)	Case Size	Lead Style	Price Each			
					1	25	100	500
74-199D25V6.8	25	6.8	C	A1	.45	.39	.35	.25
74-199D25V10	25	10	C	A1	.53	.46	.41	.29
74-199D25V15	25	15	D	A1	1.38	1.20	1.08	.75
74-199D25V22	25	22	D	A1	1.47	1.28	1.15	.80
74-199D25V33	25	33	E	E2	1.75	1.52	1.37	.95
74-199D25V68	25	68	F	E2	5.75	5.00	4.50	3.13
74-199D35V0.1	35	0.1	A	A1	.28	.24	.22	.15
74-199D35V0.15	35	0.15	A	A1	.28	.24	.22	.15
74-199D35V0.22	35	0.22	A	A1	.28	.24	.22	.15
74-199D35V0.33	35	0.33	A	A1	.28	.24	.22	.15
74-199D35V0.47	35	0.47	A	A1	.28	.24	.22	.15
74-199D35V0.68	35	0.68	A	A1	.28	.24	.22	.15
74-199D35V1.0	35	1.0	A	A1	.28	.24	.22	.15
74-199D35V1.5	35	1.5	A	A1	.31	.27	.24	.17
74-199D35V2.2	35	2.2	B	A1	.37	.32	.29	.20
74-199D35V3.3	35	3.3	B	A1	.48	.42	.38	.26
74-199D35V4.7	35	4.7	C	A1	.51	.44	.40	.28
74-199D35V6.8	35	6.8	D	A1	.58	.50	.45	.31
74-199D35V10	35	10	D	A1	.81	.70	.63	.44
74-199D35V15	35	15	E	E2	1.56	1.36	1.22	.85
74-199D35V22	35	22	E	E2	1.66	1.44	1.30	.90
74-199D35V33	35	33	F	E2	3.59	3.12	2.81	1.95
74-199D50V0.1	50	0.1	A	A1	.35	.30	.27	.19
74-199D50V0.22	50	0.22	A	A1	.35	.30	.27	.19
74-199D50V0.33	50	0.33	A	A1	.35	.30	.27	.19
74-199D50V0.47	50	0.47	A	A1	.35	.30	.27	.19
74-199D50V1.0	50	1.0	B	A1	.37	.32	.29	.20
74-199D50V2.2	50	2.2	C	A1	.69	.60	.54	.38
74-199D50V4.7	50	4.7	D	A1	.94	.82	.74	.51
74-199D50V10	50	10	F	E2	2.48	2.16	1.94	1.35

# "SUPERCAP™" and Surface Mount Tantalum Capacitors

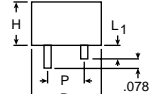
## NEC SUPERCAP™ CAPACITORS

- Operating temperature range: 25°C to +70°C
- Tolerance: +80 -20%
- Soldering: 230° +5°C, 5 ±0.5 sec. (<75% lead surface)

DIMENSIONS (IN.)

MOUSER STOCK NO.	NEC Mfg. No.	Voltage DC	Cap. (Farad)	ESR (max) Ω @ 1KHz	Ia (max) mA	D	H (max.)	P	d <sub>1</sub>	d <sub>2</sub>	L <sub>1</sub>	Price Each			
												1	100	500	1000
551-FSH043	FSH0V433Z	3.5	.043	50	0.039	.44	.208	0.203	0.008	0.048	0.108	1.32	1.06	.88	.83
551-FYD027	FYD0J273Z	6.5	.027	200	0.049	.46	.34	0.203	0.016	0.048	0.108	1.86	1.54	1.28	1.16
551-FYD056	FYD0V563Z	3.5	.056	150	0.050	.44	.208	0.203	0.008	0.048	0.108	1.34	1.11	.92	.83
551-FYL010	FYL0H103Z	5.5	.01	300	0.015	.43	.197	0.200	0.016	0.047	0.106	1.25	1.04	.87	.77
551-104A11	FA1A104Z	11	.1	8	0.3	1.122	1.004	0.394	0.039	0.055	0.374	16.92	13.40	11.28	10.58

For quantities greater than listed, call for quote.



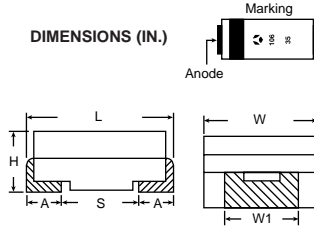
## FT SERIES SMD SOLID TANTALUM CHIP CAPACITORS

Designed for surface mount applications in accordance with EIA specifications. These three chip sizes offer capacitance values from .47µF to 47µF with rated voltages from 10 to 35 VDC.

- Operating temperature range: -55°C to +125°C
- Rated working voltage range: 10, 16, 25, and 35 volts DC
- Capacitance tolerance: ±20%
- Soldering heat resistance: 260°C for 10 seconds

DIMENSIONS (IN.)

Case Size	L ±	H ±	W ±	W1 ±	A ±	S
A	.126	.063	.063	.047	.031	.043
B	.138	.075	.11	.087	.031	.055
C	.24	.102	.126	.087	.051	.114
D	.29	.114	.17	.094	.051	.173



To order reels: Add "REEL" to Mouser Stock No.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Value (µF)	Case Size	Price Each				Price Per Reel of 500	Price Per Reel of 2000
				1	100	500	1000		
581-2.2T10	10	2.2	A	.63	.56	.53	.50	---	361.85
581-4.7T10	10	4.7	B	.77	.68	.65	.61	---	456.19
581-33T10	10	33	D	1.65	1.47	---	---	294.74	---
581-47T10	10	47	D	1.95	1.74	---	---	330.11	---
581-1.0T16	16	1.0	A	.58	.52	.49	.48	---	386.81
581-3.3T16	16	3.3	B	.77	.68	.65	.61	---	456.19
581-6.8T16	16	6.8	C	1.48	1.31	---	---	248.20	---
581-10T16	16	10	C	1.58	1.43	---	---	255.10	---
581-22T16	16	22	D	1.65	1.47	---	---	294.74	---
581-10T16	25	10	D	1.65	1.47	---	---	294.74	---
581-47T35	35	.47	A	.76	.67	.64	.60	---	449.57
581-1.0T35	35	1.0	B	.76	.67	.64	.60	---	449.57
581-2.2T35	35	2.2	C	1.48	1.31	---	---	248.20	---
581-4.7T35	35	4.7	C	1.63	1.46	---	---	291.55	---

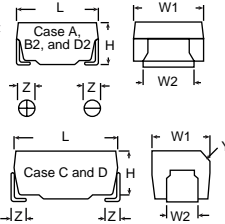
## NEC SOLID TANTALUM CHIP CAPACITORS

Common Features:

- For filtering, by-passing, coupling, decoupling, blocking, and R.C. timing circuits
- Used in industrial, commercial, entertainment, and medical electronic equipment
- Burn in at elevated voltages at 85°C for extended periods of time high leakage

DIMENSIONS (IN.)

Case Size	L	W1	W2	H	Z	Y
A	.126	.063	.047	.063	.032	----
B2	.138	.110	.091	.075	.032	----
C	.236	.126	.071	.098	.051	.016
D	.287	.169	.094	.110	.051	.02
D2	.228	.181	.095	.126	.051	----



## NR-Series

- Operating temp. range: -55°C to +125°C
- Soldering heat resist.: 260°C for 5 sec.
- Capacitance toler.: ±10%

To order reels: add "REEL" to Mouser Stock No.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Value (µF)	Case Size	Price Each				Price Per Reel of 500	Price Per Reel of 2000
				1	100	500	1000		
551-47C6.3	6.3	47	D	.61	.41	---	---	185.00	----
551-4.7C10	10	4.7	B2	.29	.20	.18	.17	-----	323.00
551-15C10	10	15	C	.40	.27	---	---	120.00	----
551-3.3C16	16	3.3	B2	.29	.20	.18	.17	-----	323.00
551-10C16	16	10	C	.40	.27	---	---	120.00	----
551-22C16	16	22	D	.61	.41	---	---	185.00	----
551-2.2C20	20	2.2	B2	.29	.20	.18	.17	-----	323.00
551-4.7C20	20	4.7	C	.40	.27	---	---	120.00	----
551-1.5C25	25	1.5	B2	.29	.20	.18	.17	-----	323.00
551-3.3C25	25	3.3	C	.40	.27	---	---	120.00	----
551-4.7C25	25	4.7	C	.40	.27	---	---	120.00	----
551-6.8C25	25	6.8	D2	.82	.55	---	---	245.00	----
551-10C25	25	10	D	.61	.41	---	---	185.00	----
551-0.1C35	35	0.1	A	.25	.17	.15	.14	-----	272.00
551-33C35	35	.33	A	.25	.17	.15	.14	-----	272.00
551-1.0C35	35	1.0	B2	.29	.20	.18	.17	-----	323.00
551-2.2C35	35	2.2	C	.40	.27	---	---	120.00	----
551-4.7C35	35	4.7	D	.61	.41	---	---	185.00	----
551-6.8C35	35	6.8	D	.61	.41	---	---	185.00	----

## SVF-Series

- Voltage range: 10V, 16V, 20V, 25V, 35V, and 50V
- Operating temperature range: -55°C to +125°C
- Capacitance range: 1µF to 6.8µF
- Tolerance: ±20%

To order reels: add "REEL" to Mouser Stock No.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	WVDC	Value (µF)	Case Size	Price Each			
				1	100	500	1000
551-475F10	10	4.7	B2	.73	.61	.50	.45
551-156FC10	10	15	C	1.32	1.10	.91	.82
551-225F20	20	2.2	B2	.73	.61	.50	.45
551-105F35	35	1.0	B2	.73	.61	.50	.45
551-475F35	35	4.7	D2	1.69	1.40	1.16	1.04
551-335F50	50	3.3	D2	1.69	1.40	1.16	1.04

## 202 SERIES DIPPED SOLID TANTALUM CAPACITORS ±10%

Specifications:

- DC leakage: 0.01 CV or 0.5µA, whichever is greater
- Operating temperature range: -55°C to +85°C
- Failure rate: Less than 2% per 1000 hours

6.3 Volt (8V Surge) For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Size	Price Each			
			1	100	500	1000
540-6.8M06	6.8	1	.33	.20	.15	.14
540-10M06	10	2	.44	.24	.20	.19
540-15M06	15	3	.52	.28	.23	.21
540-22M06	22	4	.61	.33	.26	.23
540-33M06	33	5	.75	.41	.33	.28
540-47M06	47	6	.98	.52	.41	.36
540-68M06	68	7	1.07	.67	.57	.50
540-100M06	100	8	1.89	1.46	1.13	1.01
540-150M06	150	9	2.86	2.20	1.72	1.53
540-220M06	220	10	4.35	3.66	2.87	2.55

10 Volt (13V Surge) For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Size	Price Each			
			1	100	500	1000
540-4.7M10	4.7	1	.33	.20	.15	.14
540-6.8M10	6.8	2	.44	.24	.20	.19
540-10M10	10	3	.53	.29	.23	.21
540-15M10	15	4	.61	.33	.26	.23
540-22M10	22	5	.75	.41	.33	.28
540-33M10	33	6	.85	.45	.36	.31
540-47M10	47	7	1.17	.73	.57	.51
540-68M10	68	8	2.38	1.79	1.35	1.22
540-100M10	100	9	2.86	2.20	1.72	1.53
540-150M10	150	10	4.35	3.66	2.87	2.55

Case Size	6.3-35VDC		Case Size	6.3-35VDC	
	D Max.	H Max.		D Max.	H Max.
1	.142	.236	6	.217	.335
2	.150	.256	7	.217	.374
3	.157	.276	8	.256	.453
4	.189	.295	9	.295	.512
5	.197	.315	10	.315	.551

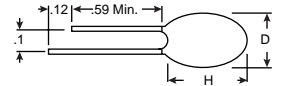
16 Volt (20V Surge) For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Size	Price Each			
			1	100	500	1000
540-3.3M16	3.3	1	.33	.20	.15	.14
540-4.7M16	4.7	2	.44	.24	.20	.19
540-6.8M16	6.8	3	.53	.29	.23	.21
540-10M16	10	4	.61	.33	.26	.23
540-15M16	15	5	.75	.41	.33	.28
540-22M16	22	6	.85	.45	.36	.31
540-33M16	33	7	1.17	.73	.57	.51
540-47M16	47	8	2.38	1.79	1.35	1.22
540-68M16	68	9	2.86	2.20	1.72	1.53
540-100M16	100	10	4.35	3.66	2.87	2.55

20 Volt (25V Surge) For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Size	Price Each			
			1	100	500	1000
540-2.2M20	2.2	1	.33	.20	.15	.14
540-3.3M20	3.3	2	.44	.24	.20	.19
540-4.7M20	4.7	3	.53	.29	.23	.21
540-6.8M20	6.8	4	.61	.33	.26	.23
540-10M20	10	5	.75	.41	.33	.28
540-15M20	15	6	.85	.45	.36	.31
540-22M20	22	7	1.17	.73	.57	.51
540-33M20	33	8	2.38	1.79	1.35	1.22
540-47M20	47	9	2.86	2.20	1.72	1.53
540-68M20	68	10	4.35	3.66	2.87	2.55

DIMENSIONS (IN.)



# Tantalum Capacitors



## FB SERIES EPOXY DIPPED SOLID TANTALUM CAPACITORS

**6.3 Volt (8V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±10%</b>							
581-3.3K06V	A	3.3	.177	.276	.27	.23	.18
581-4.7K06V	A	4.7	.177	.276	.27	.23	.18
581-6.8K06V	A	6.8	.177	.276	.32	.28	.23
581-10K06V	A	10	.177	.295	.33	.29	.24
581-15K06V	A	15	.197	.335	.39	.33	.27
581-22K06V	A	22	.197	.354	.44	.38	.30
581-33K06V	A	33	.217	.354	.45	.39	.31
581-47K06V	A	47	.236	.394	.74	.64	.50
581-68K06V	A	68	.256	.394	.81	.71	.54
581-100K06V	A	100	.276	.394	1.68	1.47	1.20
581-150K06V	A	150	.335	.551	1.93	1.65	1.43
581-220K06V	B	220	.354	.571	3.05	2.61	2.37
<b>Tolerance ±20%</b>							
581-3.3M06V	A	3.3	.177	.276	.26	.22	.17
581-4.7M06V	A	4.7	.177	.276	.26	.22	.17
581-10M06V	A	10	.177	.295	.32	.28	.23
581-22M06V	A	22	.197	.354	.43	.37	.28
581-33M06V	A	33	.217	.354	.43	.37	.28
581-47M06V	A	47	.236	.394	.70	.60	.47
581-100M06V	A	100	.276	.394	1.59	1.37	1.13
581-220M06V	B	220	.354	.571	2.75	2.33	2.12

**10 Volt (13V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±10%</b>							
581-3.3K10V	A	3.3	.177	.276	.27	.23	.18
581-4.7K10V	A	4.7	.177	.276	.30	.26	.21
581-6.8K10V	A	6.8	.177	.295	.32	.28	.23
581-10K10V	A	10	.197	.335	.41	.36	.28
581-15K10V	A	15	.197	.354	.45	.39	.31
581-22K10V	A	22	.217	.354	.60	.52	.41
581-33K10V	A	33	.236	.394	.73	.63	.49
581-47K10V	A	47	.256	.394	1.04	.88	.70
581-68K10V	A	68	.276	.394	1.41	1.22	1.01
581-100K10V	B	100	.335	.551	1.95	1.67	1.45
581-150K10V	B	150	.354	.630	3.11	2.66	2.42
<b>Tolerance ±20%</b>							
581-2.2M10V	A	2.2	.177	.276	.26	.22	.17
581-3.3M10V	A	3.3	.177	.276	.26	.22	.17
581-4.7M10V	A	4.7	.177	.276	.28	.24	.19
581-10M10V	A	10	.197	.335	.31	.27	.22
581-22M10V	A	22	.217	.354	.57	.49	.39
581-33M10V	A	33	.236	.394	.70	.60	.47
581-47M10V	A	47	.256	.394	1.00	.84	.67
581-100M10V	B	100	.335	.551	1.68	1.47	1.20
581-220M10V	B	220	.394	.669	4.09	3.60	3.34

**16 Volt (20V Surge)** For quantities greater than listed, call for quote.

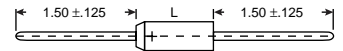
MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±10%</b>							
581-1.5K16V	A	1.5	.177	.276	.27	.23	.18
581-2.2K16V	A	2.2	.177	.276	.27	.23	.18
581-3.3K16V	A	3.3	.177	.276	.28	.24	.19
581-4.7K16V	A	4.7	.177	.295	.33	.29	.24
581-6.8K16V	A	6.8	.197	.335	.39	.33	.27
581-10K16V	A	10	.197	.354	.50	.43	.34
581-15K16V	A	15	.217	.354	.64	.54	.43
581-22K16V	A	22	.236	.394	.73	.63	.49
581-33K16V	A	33	.236	.394	.81	.71	.54
581-47K16V	A	47	.315	.512	1.67	1.44	1.18
581-68K16V	B	68	.354	.551	2.03	1.69	1.49
581-100K16V	B	100	.354	.630	2.88	2.45	2.22

## MALORRY TYPE TAC MOLDED SOLID TANTALUM CAPACITORS

The TAC construction includes the same dry electrolyte sintered tantalum anode as used in high reliability military type capacitors. The capacitors are fully precision molded in high impact resistant epoxy cases specifically designed to close tolerance for adaption to high speed automatic insertion applications. Cases are tapered at the positive lead for quick polarity identification. Lead wires are high purity nickel with solder coating.

**Specifications:**  
 • Temperature range: -55°C to +125°C  
 • Capacitance tolerance: ±10%

### DIMENSIONS (IN.)



**10 Volt (13V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Size D x L (In.)	Price Each		
			1	100	500
539-TAC10V106K	10	.110 x .290	.51	.34	.26
539-TAC10V226K	22	.180 x .345	.84	.56	.42
539-TAC10V476K	47	.180 x .420	.99	.66	.50

**15 Volt (20V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Size D x L (In.)	Price Each		
			1	100	500
539-TAC15V225K	2.2	.095 x .260	.45	.30	.22
539-TAC15V685K	6.8	.110 x .290	.53	.35	.26
539-TAC15V226K	22	.180 x .420	.99	.66	.50
539-TAC15V336K	33	.180 x .420	.99	.66	.50

**16 Volt (20V Surge)** (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±20%</b>							
581-2.2M16V	A	2.2	.177	.276	.26	.22	.17
581-3.3M16V	A	3.3	.177	.276	.26	.24	.19
581-4.7M16V	A	4.7	.177	.295	.30	.26	.21
581-6.8M16V	A	6.8	.197	.335	.38	.32	.26
581-10M16V	A	10	.197	.354	.48	.41	.30
581-15M16V	A	15	.217	.354	.60	.52	.41
581-22M16V	A	22	.236	.394	.70	.60	.47
581-33M16V	A	33	.236	.394	.77	.67	.52
581-47M16V	A	47	.315	.512	1.59	1.37	1.13
581-100M16V	B	100	.354	.630	2.75	2.33	2.12

**20 Volt (25V Surge)** For quantities greater than listed, call for quote.

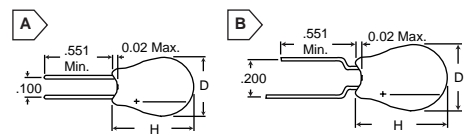
MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±10%</b>							
581-1.0K20V	A	1.0	.177	.276	.27	.23	.18
581-1.5K20V	A	1.5	.177	.276	.27	.23	.18
581-2.2K20V	A	2.2	.177	.276	.27	.23	.18
581-3.3K20V	A	3.3	.177	.295	.34	.30	.25
581-4.7K20V	A	4.7	.197	.335	.44	.38	.30
581-6.8K20V	A	6.8	.197	.354	.53	.45	.36
581-10K20V	A	10	.217	.354	.60	.52	.41
581-15K20V	A	15	.236	.394	.66	.55	.45
581-22K20V	A	22	.276	.394	1.54	1.32	1.09
581-33K20V	A	33	.315	.512	1.61	1.39	1.14
581-47K20V	A	47	.335	.551	2.49	2.10	1.89
581-68K20V	B	68	.354	.630	3.49	3.04	2.79
581-100K20V	B	100	.354	.630	4.18	3.67	3.42
<b>Tolerance ±20%</b>							
581-1.0M20V	A	1.0	.177	.276	.26	.22	.17
581-2.2M20V	A	2.2	.177	.276	.27	.23	.18
581-3.3M20V	A	3.3	.177	.295	.32	.28	.23
581-4.7M20V	A	4.7	.197	.335	.43	.37	.28
581-10M20V	A	10	.217	.354	.53	.45	.36
581-22M20V	A	22	.276	.394	1.25	1.09	.89
581-33M20V	A	33	.315	.512	1.54	1.32	1.09
581-47M20V	B	47	.335	.551	2.18	1.79	1.57
581-100M20V	B	100	.354	.630	3.91	3.44	3.17

**25 Volt (32V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±10%</b>							
581-1.0K25V	A	1.0	.177	.276	.27	.23	.18
581-1.5K25V	A	1.5	.177	.276	.27	.23	.18
581-2.2K25V	A	2.2	.177	.276	.31	.27	.22
581-3.3K25V	A	3.3	.177	.295	.34	.30	.25
581-4.7K25V	A	4.7	.197	.335	.47	.40	.32
581-6.8K25V	A	6.8	.197	.354	.55	.48	.37
581-10K25V	A	10	.217	.354	.64	.54	.43
581-15K25V	A	15	.236	.394	.70	.60	.47
581-22K25V	A	22	.276	.394	1.56	1.33	1.10
581-33K25V	B	33	.315	.512	2.30	1.92	1.72
581-47K25V	B	47	.354	.571	4.15	3.65	3.39
<b>Tolerance ±20%</b>							
581-1.0M25V	A	1.0	.177	.276	.26	.22	.17
581-2.2M25V	A	2.2	.177	.276	.29	.25	.20
581-3.3M25V	A	3.3	.177	.295	.33	.29	.24
581-4.7M25V	A	4.7	.197	.335	.44	.38	.30
581-10M25V	A	10	.217	.354	.59	.50	.40
581-22M25V	A	22	.276	.394	1.48	1.27	1.05
581-33M25V	B	33	.315	.512	2.18	1.79	1.57
581-47M25V	B	47	.354	.571	3.95	3.49	3.22

- DC leakage: 0.01CV or .5µA, whichever is greater
- Operating temperature: -55°C to +85°C, ΔC/C ≤ 12%
- Reliability: 1% per 1000 hours @ +85°C with 0.1Ω series impedance
- Tolerance ±10%, ±20%

### DIMENSIONS (IN.)



**35 Volt (44V Surge)** For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (µF)	Dimen. (In.)		Price Each		
			D Max.	H Max.	1	10	100
<b>Tolerance ±10%</b>							
581-0.1K35V	A	0.10	.177	.276	.22	.19	.15
581-0.15K35V	A	0.15	.177	.276	.22	.19	.15
581-0.22K35V	A	0.22	.177	.276	.22	.19	.15
581-0.33K35V	A	0.33	.177	.276	.22	.19	.15
581-0.4							

## 0805 SMD CASE 50 VOLT

To order reels: add "/REEL" to Mouser Stock No.

T.C.: NPO Temperature Stable For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Tol±	Price Each				Price Per Reel of 4000	
			1	100	500	1000	1	2
140-CC501N0.5C	0.5pF	.25pF	.19	.063	.050	.038	75.60	69.93
140-CC501N1.0C	1.0pF	.25pF	.19	.063	.050	.038	75.60	69.93
140-CC501N1.5C	1.5pF	.25pF	.19	.063	.050	.038	75.60	69.93
140-CC501N2.0C	2.0pF	.25pF	.19	.063	.050	.038	75.60	69.93
140-CC501N2.2C	2.2pF	.25pF	.19	.063	.050	.038	75.60	69.93
140-CC501N3.0C	3.0pF	.25pF	.20	.068	.054	.041	79.20	73.26
140-CC501N3.3C	3.3pF	.25pF	.20	.068	.054	.041	79.20	73.26
140-CC501N3.9C	3.9pF	.25pF	.20	.068	.054	.041	79.20	73.26
140-CC501N4.0C	4.0pF	.25pF	.20	.068	.054	.041	79.20	73.26
140-CC501N4.7C	4.7pF	.25pF	.20	.068	.054	.041	79.20	73.26
140-CC501N4.7K	4.7pF	10%	.19	.065	.051	.039	71.28	65.93
140-CC501N5.0D	5.0pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N6.0D	6.0pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N6.8D	6.8pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N7.0D	7.0pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N8.0D	8.0pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N9.0D	9.0pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N100D	10pF	.5pF	.20	.068	.054	.041	79.20	73.26
140-CC501N100K	10pF	10%	.19	.065	.051	.039	71.28	65.93
140-CC501N120J	12pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N150J	15pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N180J	18pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N220J	22pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N220K	22pF	10%	.22	.073	.058	.044	81.00	74.93
140-CC501N270J	27pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N330J	33pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N390J	39pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N470J	47pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N470K	47pF	10%	.22	.073	.058	.044	81.00	74.93
140-CC501N560J	56pF	5%	.23	.077	.061	.046	90.00	83.25
140-CC501N680J	68pF	5%	.24	.081	.065	.049	97.20	89.91
140-CC501N820J	82pF	5%	.24	.081	.065	.049	97.20	89.91
140-CC501N101J	100pF	5%	.24	.081	.065	.049	97.20	89.91
140-CC501N101K	100pF	10%	.23	.077	.062	.047	87.48	80.92
140-CC501N121J	120pF	5%	.24	.081	.065	.049	97.20	89.91
140-CC501N151J	150pF	5%	.24	.081	.065	.049	97.20	89.91
140-CC501N181J	180pF	5%	.24	.081	.065	.049	97.20	89.91
140-CC501N221J	220pF	5%	.26	.086	.068	.051	100.80	93.24
140-CC501N221K	220pF	10%	.25	.082	.065	.048	90.72	83.92
140-CC501N271J	270pF	5%	.26	.086	.068	.051	100.80	93.24
140-CC501N331J	330pF	5%	.26	.086	.068	.051	100.80	93.24
140-CC501N391J	390pF	5%	.29	.095	.076	.057	111.60	103.23
140-CC501N471J	470pF	5%	.31	1.00	.083	.062	122.40	113.22
140-CC501N471K	470pF	10%	.30	.099	.079	.059	110.16	101.90
140-CC501N561J	560pF	5%	.34	1.10	.090	.068	133.20	123.21
140-CC501N681J	680pF	5%	.35	1.20	.094	.070	140.40	129.87
140-CC501N821J	820pF	5%	.38	1.30	1.00	.076	147.60	136.53
140-CC501N102J	1000pF	5%	.41	1.40	1.10	.081	158.40	146.52

To order reels: add "/REEL" to Mouser Stock No.

T.C.: X7R Temperature Stable For quantities greater than listed, call for quote.

140-CC501B221K	220pF	10%	.22	.072	.058	.043	86.40	79.92
140-CC501B271K	270pF	10%	.22	.072	.058	.043	86.40	79.92
140-CC501B331K	330pF	10%	.22	.072	.058	.043	86.40	79.92
140-CC501B391K	390pF	10%	.22	.072	.058	.043	86.40	79.92
140-CC501B471K	470pF	10%	.22	.072	.058	.043	86.40	79.92
140-CC501B561K	560pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B681K	680pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B821K	820pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B102K	1000pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B122K	1200pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B152K	1500pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B182K	1800pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B222K	2200pF	10%	.23	.077	.061	.046	90.00	83.25
140-CC501B272K	2700pF	10%	.26	.086	.068	.051	100.80	93.24
140-CC501B332K	3300pF	10%	.26	.086	.068	.051	100.80	93.24
140-CC501B392K	3900pF	10%	.26	.086	.068	.051	100.80	93.24
140-CC501B472K	4700pF	10%	.26	.086	.068	.051	100.80	93.24
140-CC501B562K	5600pF	10%	.27	.090	.072	.054	108.00	99.90
140-CC501B682K	6800pF	10%	.27	.090	.072	.054	108.00	99.90
140-CC501B822K	8200pF	10%	.29	.095	.076	.057	111.60	103.23
140-CC501B103K	.01μF	10%	.29	.095	.076	.057	111.60	103.23
140-CC501B123K	.012μF	10%	.30	.099	.079	.059	118.80	109.89
140-CC501B153K	.015μF	10%	.32	1.10	.086	.065	129.60	119.88
140-CC501B183K	.018μF	10%	.35	1.20	.094	.070	140.40	129.87
140-CC501B223K	.022μF	10%	.38	1.30	1.00	.076	147.60	136.53
140-CC501B273K	.027μF	10%	.42	1.40	1.10	.084	165.60	153.18

To order reels: add "/REEL" to Mouser Stock No.

T.C.: Z5U Temperature Stable For quantities greater than listed, call for quote.

140-CC501Z103M	.01μF	20%	.11	.038	.034	.031	84.00	77.70
140-CC501Z153M	.015μF	20%	.11	.038	.034	.031	99.00	91.58
140-CC501Z223M	.022μF	20%	.12	.041	.037	.034	99.00	91.58
140-CC501Z333M	.033μF	20%	.12	.041	.037	.034	99.00	91.58
140-CC501Z393M	.039μF	20%	.12	.041	.037	.034	104.00	96.20
140-CC501Z473M	.047μF	20%	.12	.041	.037	.034	104.00	96.20

To Order Reels:  
Add "/REEL" to  
MOUSER STOCK NO.

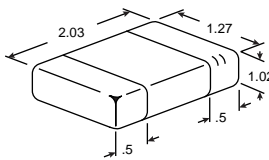


**Features:**

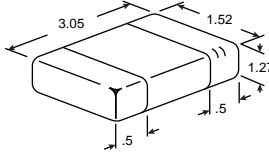
- Miniature in size, high capacitance to volume ratio
- Non-polar design
- High mounting density
- Standard tape and reel
- 50 volt rating



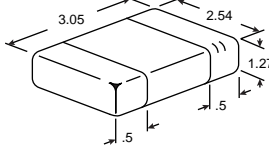
**DIMENSIONS (mm)**



0805 SMD Case



1206 SMD Case



1210 SMD Case

## 1206 SMD CASE 50 VOLT

To order reels: add "/REEL" to Mouser Stock No.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Tol±	Price Each				Price Per Reel of 4000	
			1	100	500	1000	1	2
T.C.: NPO Temperature Stable								
140-CC502N0.5C	0.5pF	.25pF	.23	.091	.073	.054	108.00	99.90
140-CC502N1.0C	1.0pF	.25pF	.23	.091	.073	.055	108.00	99.90
140-CC502N1.5C	1.5pF	.25pF	.23	.091	.073	.055	108.00	99.90
140-CC502N1.8C	1.8pF	.25pF	.27	1.10	.086	.065	129.60	119.88
140-CC502N2.2C	2.2pF	.25pF	.24	.095	.076	.057	111.60	103.23
140-CC502N2.7C	2.7pF	.25pF	.24	.095	.076	.057	111.60	103.23
140-CC502N3.3C	3.3pF	.25pF	.24	.095	.076	.057	111.60	103.23
140-CC502N3.9C	3.9pF	.25pF	.24	.095	.076	.057	111.60	103.23
140-CC502N4.7C	4.7pF	.25pF	.24	.095	.076	.057	111.60	103.23
140-CC502N5.1D	5.1pF	.5pF	.24	.095	.076	.057	111.60	103.23
140-CC502N5.6D	5.6pF	.5pF	.24	.095	.076	.057	111.60	103.23
140-CC502N6.8D	6.8pF	.5pF	.24	.095	.076	.057	111.60	103.23
140-CC502N7.5D	7.5pF	.5pF	.24	.095	.076	.057	111.60	103.23
140-CC502N8.2D	8.2pF	.5pF	.24	.095	.076	.057	111.60	103.23
140-CC502N9.1D	9.1pF	.5pF	.24	.095	.076	.057	111.60	103.23
140-CC502N100D	10pF	.5pF	.23	.091	.073	.055	108.00	99.90
140-CC502N120J	12pF	5%	.25	.098	.078	.059	115.20	106.56
140-CC502N150J	15pF	5%	.25	.098	.078	.059	115.20	106.56
140-CC502N180J	18pF	5%	.25	.098	.078	.059	115.20	106.56
140-CC502N200J	20pF	5%	.23	.092	.073	.055	108.00	99.90
140-CC502N220J	22pF	5%	.23	.092	.073	.055	108.00	99.90
140-CC502N270J	27pF	5%	.25	.098	.078	.059	115.20	106.56
140-CC502N330J	33pF	5%	.26	1.00	.082	.061	122.40	113.22
140-CC502N390J	39pF	5%	.25	1.00	.078	.059	115.20	106.56
140-CC502N470J	47pF	5%	.29	1.10	.091	.069	136.80	126.54
140-CC502N510J	51pF	5%	.29	1.10	.091	.069	136.80	126.54
140-CC502N560J	56pF	5%	.29	1.10	.091	.069	136.80	126.54
140-CC502N680J	68pF	5%	.29	1.10	.091	.069	136.80	126.54
140-CC502N820J	82pF	5%	.28	1.10	.091	.069	136.80	126.54
140-CC502N101J	100pF	5%	.28	1.10	.088	.066	129.60	119.88
140-CC502N121J	120pF	5%	.27	1.10	.087	.066	129.60	119.88
140-CC502N151J	150pF	5%	.28	1.10	.087	.066	129.60	119.88
140-CC502N221J	220pF	5%	.28	1.10	.087	.066	129.60	119.88
140-CC502N331J	330pF	5%	.28	1.10	.087	.066	129.60	119.88
140-CC502N471J	470pF	5%	.28	1.10	.087	.066	129.60	119.88
T.C.: X7R Temperature Stable								
140-CC502B391K								

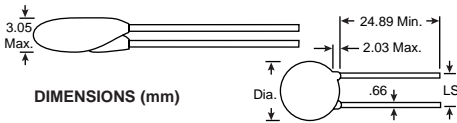




Passive Components

# Ceramic Disc Capacitors and Kits

## EIA CLASS 2 DISC CERAMIC CAPACITORS



### 50 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±10% Temp. Coeff.: Y5P</b>						
140-CD50P2-101K	100pF	5.0	2.5	.08	.043	.034
140-CD50P2-121K	120pF	5.0	2.5	.08	.043	.034
140-CD50P2-151K	150pF	5.0	2.5	.08	.043	.034
140-CD50P2-201K	200pF	5.0	2.5	.08	.043	.034
140-CD50P2-221K	220pF	5.0	2.5	.08	.043	.034
140-CD50P2-271K	270pF	5.0	2.5	.08	.043	.034
212-2112-301K	300pF	5.0	2.5	.08	.043	.034
140-CD50P2-331K	330pF	5.0	2.5	.08	.043	.034
140-CD50P2-471K	470pF	5.0	2.5	.08	.043	.034
140-CD50P2-102K	1000pF	5.0	2.5	.08	.043	.034
140-CD50P5-202K	2000pF	5.0	5.0	.08	.05	.04
140-CD50P5-103K	10000pF	10	5.0	.17	.11	.09
<b>Tolerance: ±20% Temp. Coeff.: Y5P</b>						
140-CD50P6-102M	1000pF	5.5	6.4	.13	.046	.036
140-CD50P6-502M	5000pF	8.5	6.4	.14	.094	.048
140-CD50P6-103M	10000pF	10	6.4	.16	.13	.11
<b>Tolerance: ±20% Temp. Coeff.: Z5U</b>						
140-CD50Z6-102M	.001µF	5.5	6.4	.07	.024	.022
140-CD50Z6-202M	.002µF	5.5	6.4	.07	.024	.022
140-CD50Z6-502M	.005µF	6.6	6.4	.07	.024	.022
140-CD50Z6-103M	.01µF	8.5	6.4	.08	.025	.023
140-CD50Z6-203M	.02µF	10	6.4	.12	.043	.039
<b>Tolerance: +80% to -20% Temp. Coeff.: Z5V</b>						
140-CD50Z6-102Z	.001µF	6.6	6.4	.12	.077	.033
140-CD50Z6-202Z	.002µF	6.6	6.4	.12	.077	.033
140-CD50Z6-502Z	.005µF	6.6	6.4	.12	.077	.033
140-CD50Z6-103Z	.01µF	8.5	6.4	.13	.083	.036
140-CD50Z6-203Z	.02µF	10	6.4	.14	.094	.053
140-CD50Z9-503Z	.05µF	13	9.5	.16	.13	.11
140-CD50Z9-104Z	.1µF	7.5	9.5	.23	.12	.11
<b>Tolerance: +80% to -20% Temp. Coeff.: Z5V</b>						
140-CD50Q6-102Z	.001µF	6.5	6.4	.12	.077	.033
140-CD50Q6-103Z	.01µF	8.5	6.4	.13	.083	.036
140-CD50Q6-203Z	.02µF	8.5	6.4	.14	.094	.048
140-CD50Q9-503Z	.05µF	12.5	9.5	.16	.13	.11
140-CD50Q9-104Z	.1µF	7.0	9.5	.18	.16	.13
140-CD50Q5-102Z	.01µF	5.5	5.0	.11	.070	.03
140-CD50Q5-103Z	.01µF	6.5	5.0	.12	.076	.033
140-CD50Q7-203Z	.02µF	8.5	7.5	.13	.065	.043
140-CD50Q10-503Z	.05µF	13	10	.15	.12	.099

### 100 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: +80% to -20% Temp. Coeff.: Z5V</b>						
140-CD100Z6-102Z	.001µF	10	6.4	.15	.095	.04
140-CD100Z6-202Z	.002µF	10	6.4	.15	.095	.04
140-CD100Z6-502Z	.005µF	10	6.4	.15	.095	.04
140-CD100Z6-103Z	.01µF	10	6.4	.15	.098	.045
140-CD100Z6-203Z	.02µF	12.5	6.4	.18	.12	.057
140-CD100Z9-503Z	.05µF	15	9.5	.19	.15	.11
140-CD100Z9-104Z	.1µF	15	9.5	.25	.17	.14

### 500 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±20% Temp. Coeff.: Y5F</b>						
140-CD500F6-005M	5pF	5.5	6.4	.14	.08	.05
140-CD500F6-010M	10pF	5.5	6.4	.14	.08	.05
140-CD500F6-012M	12pF	5.5	6.4	.14	.08	.05
140-CD500F6-015M	15pF	5.5	6.4	.14	.08	.05
140-CD500F6-018M	18pF	5.5	6.4	.14	.08	.05
140-CD500F6-022M	22pF	6.5	6.4	.14	.08	.05
140-CD500F6-025M	25pF	6.5	6.4	.14	.08	.05
140-CD500F6-027M	27pF	5.5	6.4	.14	.08	.05
140-CD500F6-030M	30pF	5.5	6.4	.14	.08	.05
140-CD500F6-033M	33pF	8.5	6.4	.14	.08	.05
140-CD500F6-039M	39pF	8.5	6.4	.14	.08	.05
140-CD500F6-047M	47pF	8.5	6.4	.14	.08	.05
140-CD500F6-050M	50pF	8.5	6.4	.14	.08	.05
140-CD500F6-056M	56pF	8.5	6.4	.14	.08	.05
140-CD500F6-068M	68pF	10.0	6.4	.14	.08	.05
140-CD500F6-075M	75pF	5.5	6.4	.14	.08	.05
140-CD500F6-082M	82pF	10.0	6.4	.14	.08	.05
140-CD500F6-101M	100pF	10.0	6.4	.14	.11	.055
140-CD500F6-121M	120pF	10.0	6.4	.14	.11	.055
140-CD500F6-151M	150pF	10.0	6.4	.14	.11	.055
140-CD500F6-181M	180pF	10.0	6.4	.14	.11	.055
140-CD500F6-201M	200pF	10.0	6.4	.14	.11	.055
140-CD500F6-221M	220pF	10.0	6.4	.14	.11	.055
140-CD500F6-251M	250pF	10.0	6.4	.14	.11	.055
140-CD500F6-271M	270pF	10.0	6.4	.14	.11	.055
140-CD500F6-301M	300pF	10.0	6.4	.14	.11	.055
140-CD500F6-331M	330pF	10.0	6.4	.14	.12	.055
140-CD500F6-361M	360pF	10.0	6.4	.14	.12	.06
140-CD500F6-391M	390pF	10.0	6.4	.14	.12	.06
140-CD500F6-471M	470pF	10.0	6.4	.14	.12	.06
140-CD500F6-501M	500pF	10.0	6.4	.14	.12	.06
140-CD500F6-561M	560pF	10.0	6.4	.14	.12	.06
140-CD500F6-681M	680pF	10.0	6.4	.14	.12	.06
140-CD500F6-751M	750pF	10.0	6.4	.14	.12	.06
140-CD500F6-821M	820pF	10.0	6.4	.14	.12	.06
<b>Tolerance: +80% to -20% Temp. Coeff.: Z5U</b>						
140-CD500Z6-102Z	1000pF	7.0	6.4	.16	.08	.047
140-CD500Z6-202Z	2000pF	6.5	6.4	.16	.08	.047
140-CD500Z6-302Z	3000pF	7.5	6.4	.16	.08	.047
140-CD500Z6-502Z	5000pF	9.0	6.4	.17	.09	.06
140-CD500Z9-103Z	10000pF	11	9.5	.18	.11	.08
140-CD500Z9-203Z	20000pF	14.5	9.5	.26	.17	.13

### 1000 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±10% Temp. Coeff.: Y5P</b>						
140-CD1000P5-331K	330pF	7.5	5.0	.10	.065	.055
140-CD1000P5-471K	470pF	6.0	5.0	.10	.065	.055
140-CD1000P5-102K	1000pF	8.0	5.0	.16	.13	.10
140-CD1000P10-203K	2000pF	10	10	.23	.14	.12

### 2000 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±10% Temp. Coeff.: Y5P</b>						
140-CD2000P5-101K	100pF	7.0	5.0	.12	.072	.06
140-CD2000P5-101K	220pF	7.5	5.0	.12	.072	.06
140-CD2000P5-331K	330pF	7.0	5.0	.12	.072	.06
212-6115-391K	390pF	7.5	5.0	.12	.072	.06
140-CD2000P5-471K	470pF	5.0	5.0	.18	.11	.095
140-CD2000P5-102K	1000pF	9.0	5.0	.22	.13	.115
140-CD2000P5-202K	2000pF	12	5.0	.36	.25	.22

### 3000 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±10% Temp. Coeff.: Y5P</b>						
140-CD302P9-101K	100pF	7.0	9.5	.38	.32	.29
140-CD302P9-271K	270pF	7.0	9.5	.38	.32	.29
140-CD302P9-331K	330pF	7.0	9.5	.38	.32	.29
140-CD302P9-471K	470pF	8.0	9.5	.38	.32	.29
140-CD302P9-681K	680pF	9.0	9.5	.38	.32	.29
<b>Tolerance: ±20% Temp. Coeff.: Z5U</b>						
140-CD302U9-102M	1000pF	8.0	9.5	.30	.25	.23
140-CD302U9-152M	1500pF	8.5	9.5	.38	.32	.29
140-CD302U9-222M	2200pF	10	9.5	.48	.40	.36
140-CD302U9-472M	4700pF	12	9.5	.82	.68	.62
140-CD302U9-502M	5000pF	16	9.5	.82	.68	.62
140-CD302U9-103M	10000pF	20	9.5	1.42	1.18	1.07

### 6000 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±10% Temp. Coeff.: Y5P</b>						
140-CD602P9-221K	220pF	8.0	9.5	.44	.29	.24
140-CD602P9-471K	470pF	10	9.5	.62	.41	.34
140-CD602P9-561K	560pF	10	9.5	.62	.41	.34
<b>Tolerance: ±20% Temp. Coeff.: Z5U</b>						
140-CD602U9-102M	1000pF	12	9.5	.53	.35	.29
140-CD602U9-222M	2200pF	18	9.5	.90	.60	.50
140-CD602U9-332M	3300pF	20	9.5	1.53	1.02	.85

### 10000 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: ±20% Temp. Coeff.: Z5U</b>						
140-CD103U9-501M	500pF	8.0	9.5	1.05	.70	.58
140-CD103U9-102M	1000pF	11.0	9.5	1.05	.70	.58
140-CD103U9-252M	2500pF	17.0	9.5	2.34	1.56	1.30

## EIA CLASS 3 SEMICONDUCTOR TYPE

### 12 Volt

For quantities greater than listed, call for quote.

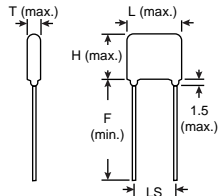
MOUSER STOCK NO.	Value (µF)	Dia. Max.	LS	Price Each		
				1	100	200
<b>Tolerance: +80% to -20% Temp. Coeff.: Y5R</b>						
140-CD12R6-503Z	.05	6.0	6.4	.18	.15	.11
140-CD12R6-104Z</						

## EPOXY DIPPED MULTILAYER CERAMIC CAPACITORS

**Specifications:**

- Epoxy coated
- Soldered, copper clad steel
- Standard tolerances

**DIMENSIONS (mm)**



### NPO Temperature Stable 50 Volt ±10%

MOUSER STOCK NO.	Value (pF)	Dimensions (mm)					Price Each			
		L	H	T	LS	F	1	100	500	1000
21RD710	10	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	Call For Quote
21RD722	22	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	
21RD739	39	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	
21RD747	47	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	
21RD610	100	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	
21RR612	120	4.1	3.8	2.5	2.5	5.0	.42	.32	.24	
21RD622	220	4.1	3.8	2.5	2.5	5.0	.31	.24	.18	
21RR627	270	4.1	3.8	2.5	2.5	5.0	.47	.36	.27	
21RR633	330	4.1	3.8	2.5	2.5	5.0	.47	.36	.27	
21RD647	470	4.1	3.8	2.5	2.5	5.0	.36	.28	.21	
21RR510	1,000	5.1	5.1	3.1	2.5	8.0	.57	.44	.33	

### NPO Temperature Stable 100 Volt ±10%

MOUSER STOCK NO.	Value (pF)	Dimensions (mm)					Price Each			
		L	H	T	LS	F	1	100	500	1000
21RR612	120	4.1	3.8	2.5	2.5	5.0	.42	.32	.24	Call For Quote
21RR627	270	4.1	3.8	2.5	2.5	5.0	.47	.36	.27	
21RR633	330	4.1	3.8	2.5	2.5	5.0	.47	.36	.27	
21RR510	1,000	5.1	5.1	3.1	2.5	8.0	.57	.44	.33	

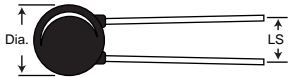
### X7R Temperature Stable 50 Volt ±10%

MOUSER STOCK NO.	Value (pF)	Dimensions (mm)					Price Each			
		L	H	T	LS	F	1	100	500	1000
21RX510	.001	4.1	3.8	2.5	2.5	5.0	.26	.20	.15	Call For Quote
21RX410	.01	4.1	3.8	2.5	2.5	5.0	.29	.22	.16	
21RX420	.02	5.1	5.1	3.1	2.5	8.0	.33	.25	.18	
21RX310	.1	5.1	5.1	3.1	2.5	8.0	.62	.48	.36	
21RX320	.2	7.6	7.6	3.8	5.1	26.9	1.37	1.05	.78	

### Z5U General Purpose 50 Volt ±20%

MOUSER STOCK NO.	Value (pF)	Dimensions (mm)					Price Each			
		L	H	T	LS	F	1	100	500	1000
21RZ410	.01	5.1	5.1	3.1	2.5	8.0	.22	.17	.12	Call For Quote
21RZ420	.02	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	
21RZ450	.05	4.1	3.8	2.5	2.5	5.0	.34	.26	.19	
21RZ310	.1	5.1	5.1	3.1	2.5	8.0	.27	.21	.16	
21RZ320	.2	7.6	7.6	3.8	5.1	26.9	.43	.33	.24	

## EIA CLASS 1 TEMPERATURE COMPENSATING



**DIMENSIONS (mm)**

### 50 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	(pF)	Dia. Max.	LS	Price Each		
				1	100	1000
<b>Tolerance: ±5% Temp. Coeff.: NPO</b>						
141-50N2-020J	20	20	5.0	.09	.06	.032
<b>Tolerance: ±5% Temp. Coeff.: SL</b>						
140-CD50S2-005J	5	5.0	2.5	.07	.05	.023
140-CD50S2-007J	6.8	5.0	2.5	.07	.05	.023
140-CD50S2-008J	7.5	5.0	2.5	.07	.05	.023
140-CD50S2-010J	10	5.0	2.5	.07	.05	.023
140-CD50S2-012J	12	5.0	2.5	.07	.05	.023
140-CD50S2-015J	15	5.0	2.5	.07	.05	.023
140-CD50S2-018J	18	5.0	2.5	.07	.05	.023
140-CD50S2-020J	20	5.0	2.5	.07	.05	.023
140-CD50S2-022J	22	5.0	2.5	.07	.05	.023
140-CD50S2-024J	24	5.0	2.5	.07	.05	.023
140-CD50S2-027J	27	5.0	2.5	.07	.05	.023
140-CD50S2-030J	30	5.0	2.5	.07	.05	.023
140-CD50S2-033J	33	5.0	2.5	.07	.05	.023
140-CD50S2-036J	36	5.0	2.5	.07	.05	.023
140-CD50S2-039J	39	5.0	2.5	.07	.05	.023
140-CD50S2-043J	43	5.0	2.5	.07	.05	.023
140-CD50S2-047J	47	5.0	2.5	.07	.05	.023
140-CD50S2-051J	51	5.0	2.5	.07	.05	.023
140-CD50S2-056J	56	5.0	2.5	.07	.05	.023
140-CD50S2-062J	62	5.0	2.5	.07	.05	.023
140-CD50S2-068J	68	5.0	2.5	.07	.05	.023
140-CD50S2-075J	75	5.0	2.5	.07	.05	.023
140-CD50S2-082J	82	5.0	2.5	.07	.05	.023
140-CD50S2-091J	91	5.0	2.5	.07	.05	.023
140-CD50S5-101J	100	6.3	5.0	.07	.05	.023
140-CD50S5-111J	110	6.3	5.0	.07	.05	.023
140-CD50S5-121J	120	6.3	5.0	.07	.05	.023
140-CD50S5-121J	120	6.3	5.0	.07	.05	.023
140-CD50S5-131J	130	6.3	5.0	.07	.05	.023
140-CD50S5-151J	150	6.3	5.0	.07	.05	.023
140-CD50S5-151J	150	6.3	5.0	.07	.05	.023
140-CD50S5-161J	160	6.3	5.0	.07	.05	.023
140-CD50S5-181J	180	6.3	5.0	.07	.05	.023
140-CD50S5-201J	200	8.0	5.0	.08	.06	.028
140-CD50S5-221J	220	8.0	5.0	.08	.06	.028
140-CD50S5-241J	240	8.0	5.0	.08	.06	.028
140-CD50S5-271J	270	8.0	5.0	.08	.06	.028
140-CD50S5-301J	300	8.0	5.0	.08	.06	.028
140-CD50S5-331J	330	8.0	5.0	.08	.06	.028
21CB360	360	8.0	5.0	.09	.07	.032
140-CD50S5-391J	390	8.0	5.0	.09	.07	.032
21CB430	430	8.0	5.0	.09	.07	.032
140-CD50S5-471J	470	8.0	5.0	.09	.07	.032
140-CD50S5-511J	510	10.0	5.0	.09	.07	.032

### 50 Volt (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	(pF)	Dia. Max.	LS	Price Each		
				1	100	1000
<b>Tolerance: ±10% Temp. Coeff.: NPO</b>						
140-CD50N6-001K	1	5.0	6.4	.09	.07	.032
140-CD50N6-003K	3	5.0	6.4	.09	.07	.032
140-CD50N6-005K	5	5.0	6.4	.09	.07	.032
140-CD50N6-010K	10	5.0	6.4	.09	.07	.032
140-CD50N6-012K	12	5.0	6.5	.09	.07	.032
140-CD50N6-020K	20	5.0	6.4	.09	.07	.032
140-CD50N6-022K	22	6.3	6.4	.09	.07	.032
140-CD50N6-030K	30	6.3	6.4	.09	.07	.032
140-CD50N6-033K	33	6.3	6.4	.09	.07	.032
140-CD50N6-047K	47	8	6.4	.09	.07	.032
140-CD50N6-051K	51	8	6.4	.14	.10	.046
140-CD50N6-101K	100	10	6.4	.17	.12	.058
140-CD50N6-121K	120	12.5	6.4	.17	.12	.058
140-CD50N6-151K	150	12.5	6.4	.18	.13	.062
140-CD50N6-201K	200	12.5	6.4	.19	.14	.066
140-CD50N6-331K	330	12.5	6.4	.20	.15	.073
<b>Tolerance: ±20% Temp. Coeff.: SL</b>						
140-CD50S6-005M	5	5.0	6.4	.06	.04	.021
140-CD50S6-007M	6.8	5.0	6.4	.06	.04	.021
140-CD50S6-010M	10	5.0	6.4	.06	.04	.021
21FL012	12	5.0	6.4	.06	.04	.021
140-CD50S6-015M	15	5.0	6.4	.06	.04	.021
140-CD50S6-018M	18	5.0	6.4	.06	.04	.021
140-CD50S6-020M	20	5.0	6.4	.06	.04	.021
140-CD50S6-022M	22	5.0	6.4	.06	.04	.021
140-CD50S6-027M	27	5.0	6.4	.06	.04	.021
140-CD50S6-030M	30	6.5	6.3	.06	.04	.021
140-CD50S6-033M	33	5.0	6.4	.06	.04	.021
140-CD50S6-039M	39	5.0	6.4	.06	.04	.021
140-CD50S6-043M	43	5.0	6.4	.06	.04	.021
140-CD50S6-047M	47	5.0	6.4	.06	.04	.021
140-CD50S6-050M	50	5.0	6.4	.06	.04	.021
140-CD50S6-051M	51	5.0	6.4	.06	.04	.021
140-CD50S6-056M	56	5.0	6.4	.06	.04	.021
140-CD50S6-068M	68	5.0	6.4	.06	.04	.021
140-CD50S6-075M	75	5.0	6.4	.06	.04	.021
140-CD50S6-101M	100	5.0	6.4	.06	.04	.021
140-CD50S6-151M	150	5.0	6.4	.06	.04	.021
140-CD50S6-201M	200	8.0	6.4	.08	.06	.028
140-CD50S6-221M	220	8.0	6.4	.08	.06	.028
140-CD50S6-251M	250	10.0	6.4	.08	.06	.028
140-CD50S6-271M	270	10.0	6.4	.08	.06	.028
21FL300	300	10.0	6.4	.08	.06	.028
140-CD50S6-331M	330	10.0	6.3	.09	.07	.032
140-CD50S6-391M	390	9.0	6.4	.09	.07	.032
140-CD50S6-471M	470	10.0	6.4	.09	.07	.032
140-CD50S6-501M	500	10.0	6.4	.11	.09	.046

### 100 Volt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	(pF)	Dia. Max.	LS	Price Each		
				1	100	1000
<b>Tolerance: ±5% Temp. Coeff.: NPO</b>						
141-100N2-001J	1	5.0	2.5	.09	.07	.032
141-100N2-002J	2	5.0	2.5	.09	.07	.032
141-100N2-005J	5	5.0	2.5	.09	.07	.032
141-100N2-010J	10	5.0	2.5	.09	.07	.032
141-100N2-012J	12	5.0	2.5	.09	.07	.032
141-100N2-015J	15	5.0	2.5	.09	.07	.032
141-100N2-018J	18	5.0	2.5	.09	.07	.032
141-100N2-020J	20	5.0	2.5	.09	.07	.032
141-100N5-022J	22	6.3	5.0	.09	.07	.032

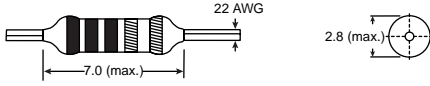
### 100 Volt (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	(pF)	Dia. Max.	LS	Price Each		
				1	100	1000
<b>Tolerance: ±5% Temp. Coeff.: NPO</b>						
141-100N5-027J	27	6.3	5.0	.09	.07	.032
141-100N5-030J	30	6.3	5.0	.09	.07	.032
141-100N5-033J	33	6.3	5.0	.09	.07	.032
141-100N5-039J	39	8.0	5.0	.09	.07	.032
141-100N5-047J	47	8.0	5.0	.09	.07	.032
141-100N5-051J	51	8.0	5.0	.14	.10	.046
141-100N5-056J	56	8.0	5.0	.14	.10	.046
141-100N5-068J	68	10.0	5.0	.14	.10	.046
141-100N5-082J	82	10.0	5.0	.14	.10	.046
141-100N5-101J	100	10.0	5.0	.17	.12	.058

## AXIAL CERAMIC CAPACITORS

- Features:**
- Minimal footprint and low profile
  - Wide range of capacitances



DIMENSIONS (mm)

### 50 Volt

To order reels: add "/REEL" to Mouser Stock No. For quantities greater than listed, call for quote.

MOUSER STOCK NO.	(pF)	Tolerance ±	Temperature Coefficient	Price Each			Price Per Reel of 5000
				1	100	500	
140-CA50N1.0M	1.0	20%	NPO	.16	.083	.075	303.65
140-CA50N1.5M	1.5	20%	NPO	.16	.083	.075	303.65
140-CA50N2.2K	2.2	10%	NPO	.16	.083	.075	303.65
140-CA50N4.7K	4.7	10%	NPO	.16	.083	.075	303.65
140-CA50N6.8K	6.8	10%	NPO	.16	.083	.075	303.65
140-CA50N100J	10	5%	NPO	.16	.083	.075	303.65
140-CA50N120J	12	5%	NPO	.16	.083	.075	303.65
140-CA50N150J	15	5%	NPO	.16	.083	.075	303.65
140-CA50N180J	18	5%	NPO	.16	.083	.075	303.65
140-CA50N200J	20	5%	NPO	.16	.083	.075	303.65
140-CA50N220J	22	5%	NPO	.16	.083	.075	303.65
140-CA50N270J	27	5%	NPO	.16	.083	.075	303.65
140-CA50N300J	30	5%	NPO	.16	.083	.075	303.65
140-CA50N330J	33	5%	NPO	.16	.083	.075	303.65
140-CA50S470J	47	5%	SL	.15	.074	.067	249.47
140-CA50S680J	68	5%	SL	.15	.074	.067	249.47
140-CA50S820J	82	5%	SL	.15	.074	.067	249.47
140-CA50S121J	120	5%	SL	.15	.074	.067	249.47
140-CA50P151K	150	10%	Y5P	.15	.074	.067	249.47
140-CA50P221K	220	10%	Y5P	.15	.074	.067	249.47
140-CA50P271K	270	10%	Y5P	.15	.074	.067	249.47
140-CA50P331K	330	10%	Y5P	.15	.074	.067	249.47
140-CA50P391K	390	10%	Y5P	.15	.074	.067	249.47
140-CA50P471K	470	10%	Y5P	.15	.074	.067	249.47
140-CA50P561K	560	10%	Y5P	.15	.074	.067	249.47
140-CA50P681K	680	10%	Y5P	.15	.074	.067	249.47
140-CA50P821K	820	10%	Y5P	.15	.074	.067	249.47
140-CA50R152M	1500	20%	Y5R	.15	.074	.067	249.47
140-CA50R222M	2200	20%	Y5R	.15	.074	.067	249.47
140-CA50R472M	4700	20%	Y5R	.15	.074	.067	249.47
140-CA50V223Z	22000	+80%-20%	Y5V	.15	.074	.067	249.47

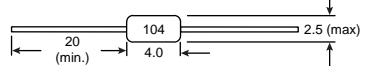
## 50 VOLT CA10 AXIAL CERAMIC CAPACITORS



Offers high capacitance in a 0.1" or smaller diameter case.

**Specifications:**

- Operating temperature: -55°C to +125°C, C0G & X7R, -25°C to +85°C, Z5U
- Dissipation factors: ≤.001 for C<sub>2</sub>50pF, C0G, ≤.0033 for C<sub>5</sub>50pF, C0G, ≤.025, X7R, ≤.03, Z5U
- Solderability: 235°C±5°C, 2 ±0.5 sec @ 1.5–2.0mm immersion



DIMENSIONS (mm)

To order reels: add "/REEL" to Mouser Stock No.

For quantities greater than listed, call for quote.

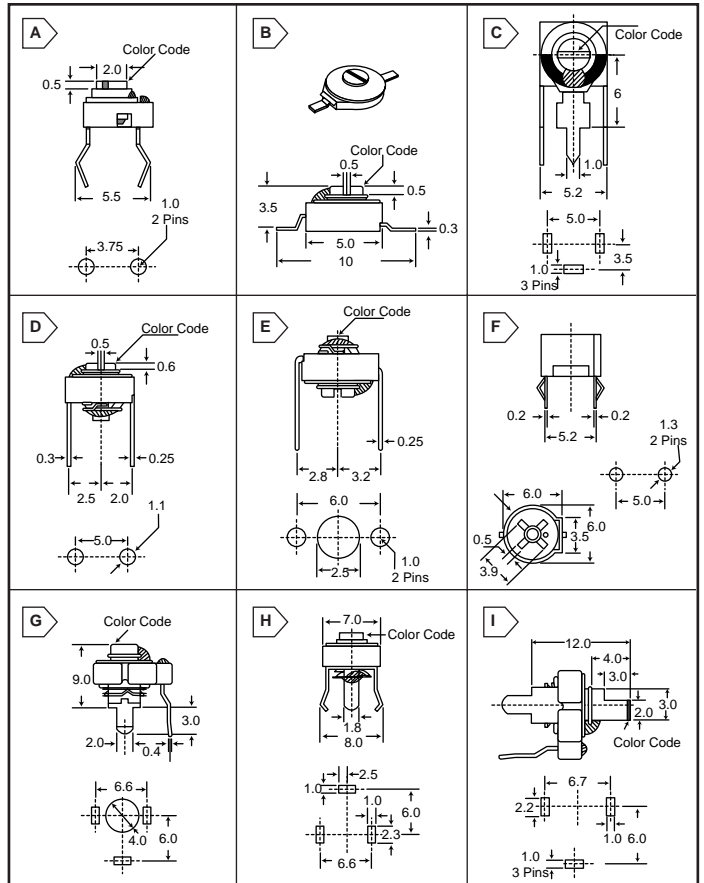
MOUSER STOCK NO.	(pF)	Tolerance ±	Temperature Coefficient	Price Each			Price Per Reel of 5000
				1	100	500	
147-75-100	10	5	C0G	.27	.14	.12	339.30
147-75-120	12	5	C0G	.27	.14	.12	339.30
147-75-150	15	5	C0G	.27	.14	.12	339.30
147-75-180	18	5	C0G	.27	.14	.12	339.30
147-75-220	22	5	C0G	.27	.14	.12	339.30
147-75-270	27	5	C0G	.27	.14	.12	339.30
147-75-330	33	5	C0G	.27	.14	.12	339.30
147-75-390	39	5	C0G	.27	.14	.12	339.30
147-75-470	47	5	C0G	.27	.14	.12	339.30
147-75-680	68	5	C0G	.28	.15	.13	339.30
147-75-820	82	5	C0G	.28	.15	.13	339.30
147-75-101	100	5	C0G	.28	.15	.13	339.30
147-75-121	120	5	C0G	.29	.22	.16	351.90
147-75-151	150	5	C0G	.29	.22	.16	351.90
147-75-221	220	5	C0G	.29	.22	.16	351.90
147-75-271	270	5	C0G	.29	.22	.16	351.90
147-75-331	330	5	C0G	.29	.22	.16	351.90
147-75-471	470	5	C0G	.29	.22	.16	369.00
147-75-102	1000	5	C0G	.33	.25	.18	450.00
147-71-391	390	10	X7R	.26	.19	.14	339.30
147-71-561	560	10	X7R	.26	.19	.14	339.30
147-71-681	680	10	X7R	.26	.19	.14	339.30
147-71-821	820	10	X7R	.26	.19	.14	339.30
147-71-152	1500	10	X7R	.26	.19	.14	351.90
147-71-222	2200	10	X7R	.26	.19	.14	351.90
147-71-472	4700	10	X7R	.26	.20	.14	351.90
147-71-562	5600	10	X7R	.26	.20	.14	351.90
147-71-103	10000	10	X7R	.17	.12	.09	339.30
147-71-223	22000	10	X7R	.33	.25	.18	394.20
147-71-333	33000	10	X7R	.36	.27	.19	432.00
147-71-473	47000	10	X7R	.37	.28	.20	466.20
147-72-103	10000	20	Z5U	.16	.12	.09	275.40
147-72-473	47000	20	Z5U	.21	.15	.10	339.30
147-72-683	68000	20	Z5U	.21	.15	.10	351.90
147-72-104	100000	20	Z5U	.16	.12	.09	216.90
147-72-224	220000	20	Z5U	.42	.32	.23	504.00

## CERAMIC TRIMMER CAPACITORS

DIMENSIONS (mm)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Range (pF)	Q Factor @ 10MHz	Temp. Coeff. ppm/°C	Rotor Color Code	Price Each			
						1	10	100	500
<b>4mm Super Miniature, 50VWVDC</b>									
242-1810	A	1.8-10.0	>300	N550±300	None	1.78	1.48	1.35	1.20
242-2820	A	2.8-20.0	>300	N550±300	Blue	1.78	1.48	1.35	1.20
242-4030	A	4.0-30.0	>200	N1200±500	Yellow	1.78	1.48	1.35	1.20
<b>5mm Surface Mount Micro-Miniature, 200VWVDC</b>									
244A070	B	1.8-6.0	>300	NPO±250	Red	1.14	0.95	0.87	0.77
244A071	B	2.8-12.5	>300	N600±300	None	1.14	0.95	0.87	0.77
244A072	B	3.5-20	>300	N750±300	Blue	1.14	0.95	0.87	0.77
244A073	B	5.0-30	>200	N1500±300	Yellow	1.22	1.01	0.93	0.82
244A074	B	9.0-50	>200	N1500±300	Green	1.25	1.04	0.95	0.84
<b>5mm Micro-Miniature, 200VWVDC</b>									
244A080	C	1.8-6.0	>300	NPO±250	Red	1.25	1.04	0.95	0.84
244A081	C	2.8-12.5	>300	N600±300	None	1.25	1.04	0.95	0.84
244A082	C	3.5-20	>300	N750±300	Blue	1.25	1.04	0.95	0.84
244A083	C	5.0-30	>200	N1500±500	Yellow	1.28	1.07	0.98	0.87
244A084	C	9.0-50	>200	N1500±500	Green	1.33	1.11	1.01	0.90
244A020	D	1.8-6.0	>300	NPO±250	Red	1.14	0.95	0.87	0.77
244A021	D	2.8-12.5	>300	N600±300	None	1.14	0.95	0.87	0.77
244A022	D	3.5-20	>300	N750±300	Blue	1.15	0.96	0.87	0.78
244A023	D	5.0-30	>200	N1500±500	Yellow	1.24	1.03	0.94	0.84
244A024	D	9.0-50	>200	N1500±500	Green	1.25	1.04	0.95	0.84
<b>5mm Micro-Miniature, 200VWVDC</b>									
244A091	E	2.8-12.5	>300	N600±300	None	1.24	1.03	0.94	0.84
244A092	E	3.5-20.0	>300	N750±300	Blue	1.24	1.03	0.94	0.84
<b>6mm Snap-In Mount, 100VWVDC</b>									
242-1530	F	1.5-3.0	>300	NPO±200	Black	0.57	0.47	0.43	0.39
242-2710	F	2.7-10	>300	NPO±200	White	0.57	0.47	0.43	0.39
242-4220	F	4.2-20	>300	N450±300	Red	0.57	0.47	0.43	0.39
242-5530	F	5.5-30	>200	N750±300	Green	0.64	0.53	0.49	0.43
242-8050	F	8.0-50	>200	N1200±600	Orange	0.67	0.55	0.51	0.45
<b>7mm Ultra-Miniature, 225VWVDC</b>									
24AA113	G	4.0-34	>300	N550±800	Yellow	1.25	1.04	0.95	0.84
<b>7mm Ultra-Miniature, 225VWVDC</b>									
242-3610-12	H	2.0-12	>300	NPO±200	None	1.03	0.86	0.78	0.70
242-3610-23	H	2.8-23	>300	N450±200	Blue	1.03	0.86	0.78	0.70
242-3610-45	H	7.0-45	>200	N1400±800	Brown	1.22	1.01	0.93	0.82
242-3610-55	H	7.0-55	>200	N1400±800	Green	1.25	1.04	0.95	0.84
242-3610-70	H	7.0-70	>200	N1400±800	Gray	1.48	1.23	1.13	1.00
242-3610-100	H	12.0-100	200@1MHz	N1400±800	Black	1.55	1.29	1.18	1.05
<b>7mm Ultra-Miniature Rotary Shaft</b>									
242-3410-34	I	4.0-34	>300	N500±800	Yellow	1.27	1.05	0.96	0.86
242-3410-45	I	5.0-45	>200	N1400±800	Brown	1.32	1.10	1.00	0.89
242-3410-55	I	5.0-55	>200	N1400±800	Green	1.42	1.18	1.08	0.96
242-3410-70	I	6.0-70	>200	N1400±800	None	1.48	1.23	1.13	1.00

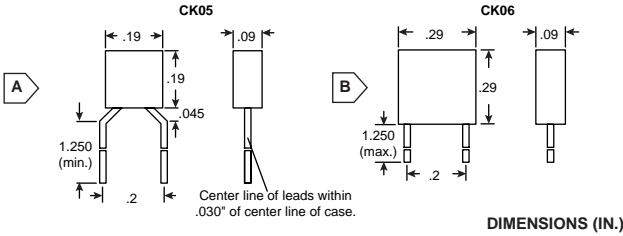


# Variable and Ceramic Capacitors

## MALLOY MONOLITHIC CERAMIC CAPACITORS

### Specifications:

- Tolerance: ±10%
- Operating temperature: -55°C to +125°C
- Molded Case
- MIL spec MIL-C-11015/18 or MIL-C-11015/20



### CK05 Series

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	WVDC	Capacitance (pF)	Price Each			
				1	100	500	1000
539-CK05100K	A	200	10	.39	.16	.15	.14
539-CK05120K	A	200	12	.39	.16	.15	.14
539-CK05150K	A	200	15	.39	.16	.15	.14
539-CK05180K	A	200	18	.39	.16	.15	.14
539-CK05220K	A	200	22	.39	.16	.15	.14
539-CK05330K	A	200	33	.39	.16	.15	.14
539-CK05390K	A	200	39	.39	.16	.15	.14
539-CK05470K	A	200	47	.39	.16	.15	.14
539-CK05560K	A	200	56	.39	.16	.15	.14
539-CK05680K	A	200	68	.39	.16	.15	.14
539-CK05820K	A	200	82	.39	.16	.15	.14
539-CK05101K	A	200	100	.39	.16	.15	.14
539-CK05121K	A	200	120	.39	.16	.15	.14
539-CK05151K	A	200	150	.39	.16	.15	.14
539-CK05181K	A	200	180	.39	.16	.15	.14
539-CK05221K	A	200	220	.39	.16	.15	.14

### CK05 Series (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	WVDC	Capacitance (pF)	Price Each			
				1	100	500	1000
539-CK05271K	A	200	270	.39	.16	.15	.14
539-CK05331K	A	200	330	.39	.16	.15	.14
539-CK05391K	A	200	390	.39	.16	.15	.14
539-CK05471K	A	200	470	.39	.16	.15	.14
539-CK05561K	A	200	560	.39	.16	.15	.14
539-CK05681K	A	200	680	.39	.16	.15	.14
539-CK05821K	A	200	820	.39	.16	.15	.14
539-CK05102K	A	200	1,000	.39	.16	.15	.14
539-CK05122K	A	100	1,200	.39	.16	.15	.14
539-CK05152K	A	100	1,500	.39	.16	.15	.14
539-CK05182K	A	100	1,800	.39	.16	.15	.14
539-CK05222K	A	100	2,200	.39	.16	.15	.14
539-CK05272K	A	100	2,700	.39	.16	.15	.14
539-CK05332K	A	100	3,300	.39	.16	.15	.14
539-CK05472K	A	100	4,700	.39	.16	.15	.14
539-CK05562K	A	100	5,600	.39	.16	.15	.14
539-CK05682K	A	100	6,800	.43	.17	.16	.15
539-CK05822K	A	100	8,200	.43	.17	.16	.15
539-CK05103K	A	100	10,000	.43	.17	.16	.15
539-CK05123K	A	50	12,000	.51	.20	.19	.18
539-CK05153K	A	50	15,000	.51	.20	.19	.18
539-CK05183K	A	50	18,000	.51	.20	.19	.18
539-CK05223K	A	50	22,000	.51	.20	.19	.18
539-CK05273K	A	50	27,000	.51	.20	.19	.18
539-CK05333K	A	50	33,000	.56	.23	.22	.21
539-CK05393K	A	50	39,000	.56	.23	.22	.21
539-CK05473K	A	50	47,000	.56	.23	.22	.21
539-CK05563K	A	50	56,000	.56	.23	.22	.21
539-CK05683K	A	50	68,000	.56	.23	.22	.21
539-CK05823K	A	50	82,000	.56	.23	.22	.21
539-CK05104K	A	50	100,000	.56	.23	.22	.21

### CK06 Series

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	WVDC	Capacitance (pF)	Price Each			
				1	100	500	1000
539-CK06822K	B	200	8,200	.46	.20	.19	.18
539-CK06333K	B	100	33,000	.59	.20	.19	.18
539-CK06473K	B	100	47,000	.59	.20	.19	.18
539-CK06104K	B	100	100,000	.59	.20	.19	.18
539-CK06105K	B	50	1,000,000	3.71	1.26	1.20	1.14

## MALLOY HIGH VOLTAGE CERAMIC DISC CAPACITORS

All capacitors are coated with tough humidity resistant coating and primarily designed for noncritical coupling, bypass and filter applications.

1000 Volt, Tolerance: ±10% (Y5P), ±20% (Y5U)

### GP Series

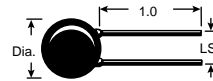
Operating temperature: -55°C to +85°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	(pF)	Temp. Coeff.	Dia. Max.	LS	Price Each		
					1	100	1000
539-GP310	100	Y5P	.236	.25	.18	.09	.08
539-GP347	470	Y5P	.236	.25	.18	.09	.08
539-GP210	1000	Y5P	.291	.25	.21	.10	.09
539-GP222	2200	Y5P	.374	.25	.27	.14	.11
539-GP247	4700	Y5U	.433	.25	.32	.16	.14
539-GP110	10000	Y5U	.590	.375	.40	.20	.17

### Specifications:

- Max. voltage: 2.5x rated @ .5 sec. max.
- Insulation resistance: 10GΩ min.
- Power factor: 2.5% max.
- Test frequency: 1KHz



3000 Volt, Tolerance: ±10% (Y5P), ±20% (Y5U)

### HT Series

Operating temperature: -35°C to +85°C

For quantities greater than listed, call for quote.

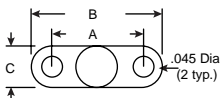
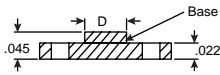
MOUSER STOCK NO.	(pF)	Temp. Coeff.	Dia. Max.	LS	Price Each		
					1	100	1000
539-HT471K	470	Y5P	.394	.375	.32	.16	.13
539-HT102M	1000	Y5U	.394	.375	.41	.20	.17
539-HT222M	2200	Y5U	.590	.375	.41	.20	.17
539-HT472M	4700	Y5U	.787	.375	1.13	.58	.47

## CAPACITOR MOUNTS

### Specifications:

- Accurately positions capacitors or discrete components on PC board
- Type 66 nylon construction

**DIMENSIONS (IN.)**

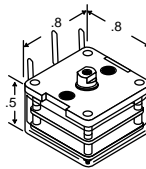


MOUSER STOCK NO.	Dimensions (In.)				Price Each			
	A	B	C	D	1	100	1000	5000
561-F001	.100	.180	.090	.050	.32	.12	.08	Call For
561-F002	.150	.270	.125	.090	.32	.12	.08	Quote
561-F003	.200	.290	.090	.090	.32	.12	.08	

## POLY FILM RF TUNER CAPACITORS

### Specifications:

- Osc.: 5.0 to 59.2 pF range
- Ant.: 5.0 to 141.6 pF range
- Osc. trimmer: 10 pF range
- Ant. trimmer: 10 pF range
- Section: 5.0 to 266 pF
- Two-7 pF trimmers per section
- Q: 700 @ 10 MHz, 50 pF



MOUSER STOCK NO.	Price Each				
	1	10	100	500	1000
24TR222	1.52	1.18	1.07	.98	Call

### Mounting Screws for 24TR222

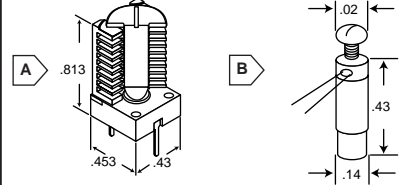
MOUSER STOCK NO.	Price Each				
	1	100	1000	10000	25000
48SS003	.04	.012	.011	.010	Call

## JOHNSON VARIABLE CAPACITORS

### Features:

- Used for tuning VHF, UHF and microwave circuits
- Small size and low cost

**DIMENSIONS (IN.)**



### Specifications A:

- Working voltage: 250VDC
- Q factor: 2000 at 1MHz
- Operating temperature: -55°C to +125°C
- Nominal air gap: .010"

### Specifications B:

- Working voltage: 1000VDC
- Q factor: 2000 at 1MHz
- Operating temperature: -55°C to +150°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Range (pF)	Dielectric	Price Each		
				1	10	100
530-189-0509-5	A	2.4-24.5	Air	3.62	3.04	2.61
530-273-0001-1	B	.25-1.5	Teflon	1.91	1.60	1.37

## EC SERIES RADIAL MONOLITHIC CERAMIC CAPACITORS

**NPO:** Class I

Temperature compensating capacitors, suitable for resonant circuits where stable capacitance and low D.F. are desired. They are made of non ferro-electric materials yielding superior stability.

**X7R:** Class II

Stable capacitors, made of ferro-electric materials, yielding higher volumetric efficiency but less stability. These capacitors are suitable for by-pass or coupling applications where stability and low D.F. are not critical.

**Z5U:** Class III

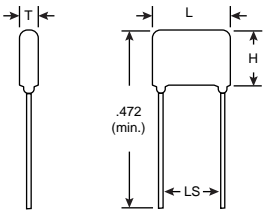
General purpose capacitors, suitable for bypass circuits where dielectric losses, high insulation resistance and stability are not required. Made of ferro-electric materials, Class III capacitors have the lowest stability, but the highest volumetric efficiency.

**Case Size Dimensions (In.)**

Size	L (Max.)	H (Max.)	T (Max.)	LS
904	.150	.209	.100	.100
905	.200	.256	.125	.100
908	.299	.377	.149	.200

\*H dimension runs to bottom of epoxy miniscus

TEMPERATURE CHARACTERISTICS	NPO	X7R	Z5U
Range, °C	-55°C to +125°C	-55°C to +125°C	+10°C to +85°C
Capacitance change without DC voltage	0±30 PPM/°C*	±15%	+22%, -56%



**NPO: Class I**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Voltage Rating (V)	Tolerance ±	Case Size	Price Each			
					1	100	500	1000
581-UEC100J1	10pF	100	5%	904	.18	.117	.097	.07
581-UEC120J1	12pF	100	5%	904	.18	.117	.097	.07
581-UEC150J1	15pF	100	5%	904	.18	.117	.097	.07
581-UEC180J1	18pF	100	5%	904	.18	.117	.097	.07
581-UEC220J1	22pF	100	5%	904	.18	.117	.097	.07
581-UEC270J1	27pF	100	5%	904	.18	.117	.097	.07
581-UEC330J1	33pF	100	5%	904	.18	.117	.097	.07
581-UEC390J1	39pF	100	5%	904	.18	.117	.097	.07
581-UEC470J1	47pF	100	5%	904	.18	.117	.097	.07
581-UEC560J1	56pF	100	5%	904	.18	.12	.10	.072
581-UEC680J1	68pF	100	5%	904	.18	.12	.10	.072
581-UEC820J1	82pF	100	5%	904	.18	.12	.10	.072
581-UEC101J1	100pF	100	5%	904	.18	.12	.10	.072
581-UEC121J1	120pF	100	5%	904	.19	.126	.105	.076
581-UEC151J1	150pF	100	5%	904	.19	.126	.105	.076
581-UEC181J1	180pF	100	5%	904	.19	.126	.105	.076
581-UEC221J1	220pF	100	5%	904	.24	.138	.115	.092
581-UEC271J1	270pF	100	5%	904	.24	.138	.115	.092
581-UEC331J1	330pF	100	5%	904	.24	.138	.115	.092
581-UEC391J1	390pF	100	5%	904	.24	.138	.115	.092
581-UEC471J1	470pF	100	5%	904	.24	.138	.115	.092
581-UEC561J1	560pF	100	5%	904	.24	.138	.115	.092
581-UEC681J1	680pF	100	5%	904	.24	.138	.115	.092
581-UEC821J1	820pF	100	5%	904	.24	.138	.115	.092
581-UEC102J1	1000pF	100	5%	904	.24	.138	.115	.092
581-UEC122J1	1200pF	100	5%	905	.28	.161	.138	.115
581-UEC152J1	1500pF	100	5%	905	.28	.161	.138	.115
581-UEC182J1	1800pF	100	5%	905	.28	.161	.138	.115
581-UEC222J1	2200pF	100	5%	905	.33	.20	.161	.138
581-UEC272J1	2700pF	100	5%	905	.33	.20	.161	.138
581-UEC332J1	3300pF	100	5%	905	.39	.23	.20	.161
581-UEC472J1	4700pF	100	5%	905	.62	.37	.31	.253

**NPO: Class I (Cont.)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Voltage Rating (V)	Tolerance ±	Case Size	Price Each			
					1	100	500	1000
581-UEC562J1	5600pF	100	5%	905	.70	.414	.345	.288
581-UEC682J2	6800pF	100	5%	908	1.45	.85	.713	.60
581-UEC822J2	8200pF	100	5%	908	1.60	.943	.782	.656
581-UEC103J2	.01μF	100	5%	908	1.79	1.06	.89	.74
581-UEC183J2	.018μF	100	5%	908	2.60	1.53	1.28	1.07
581-UEC223J2	.022μF	100	5%	908	2.07	1.22	1.01	.84

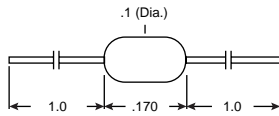
  

MOUSER STOCK NO.	Value	Voltage Rating (V)	Tolerance ±	Case Size	Price Each			
					1	100	500	1000
581-UEZ102K1	1000pF	100	10%	904	.17	.106	.084	.065
581-UEZ222K1	2200pF	100	10%	904	.17	.106	.084	.065
581-UEZ472K1	4700pF	100	10%	904	.18	.109	.086	.066
581-UEZ103K1	.01μF	100	10%	904	.18	.109	.086	.066
581-UEZ153K1	.015μF	100	10%	904	.20	.126	.099	.077
581-UEZ223K1	.022μF	100	10%	904	.20	.126	.099	.077
581-UEZ333K1	.033μF	100	10%	905	.23	.14	.11	.085
581-UEZ473K1	.047μF	100	10%	905	.23	.143	.112	.087
581-UEZ683K1	.068μF	100	10%	905	.23	.146	.114	.088
581-UEZ104K1	.1μF	100	10%	905	.41	.266	.207	.177
581-UEZ154K2	.15μF	100	10%	908	1.08	.633	.53	.45
581-UEZ224K2	.22μF	100	10%	908	1.08	.633	.53	.45
581-UEZ334K2	.33μF	100	10%	908	1.21	.713	.60	.51
581-UDZ223K1	.022μF	50	10%	904	.19	.118	.092	.071
581-UDZ473K1	.047μF	50	10%	905	.21	.132	.103	.08
581-UDZ104K1	.1μF	50	10%	905	.31	.184	.15	.127
581-UDZ105K2	1.0μF	50	10%	908	1.66	.98	.817	.679

**Z5U: Class III**

581-UW103M1	.01μF	100	20%	904	.20	.161	.092	.08
581-UW105M2	1.0μF	100	20%	908	1.69	1.13	.987	.705
581-UW225M2	2.2μF	100	20%	908	2.54	1.69	1.48	1.06
581-UW104M1	.1μF	50	20%	905	.18	.117	.091	.078
581-UW224M1	.22μF	50	20%	905	.30	.173	.15	.127
581-UW474M1	.47μF	50	20%	905	.44	.253	.21	.173

## EX SERIES AXIAL MONOLITHIC CERAMIC CAPACITORS



**DIMENSIONS (IN.)**

**Operating Characteristics**

Characteristics	NPO	X7R	Z5U
Capacitance range	10pF to 1000pF	1000pF-.033μF	.01μF-.22μF
Capacitance tolerances	±5% (J)	±10% (K)	±20% (M)

**NPO: Class I**

Temperature compensating capacitors, suitable for resonant circuits where stable capacitance and low D.F. are desired. They are made of non ferro-electric materials yielding superior stability.

**X7R: Class II**

Stable capacitors, made of ferro-electric materials, yielding higher volumetric efficiency but less stability. These capacitors are suitable for by-pass or coupling applications where stability and low D.F. are not critical.

**Z5U: Class III**

General purpose capacitors, suitable for bypass circuits where dielectric losses, high insulation resistance and stability are not required. Made of ferro-electric materials, Class III capacitors have the lowest stability, but the highest volumetric efficiency.

**NPO: Class I**

To order reels; add "/REEL" to Mouser Stock No.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	Voltage Rating (V)	Tolerance ±	Price Each				Price Per Reel of 5000
				1	100	500	1000	
581-EXCE100J	10pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE120J	12pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE150J	15pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE220J	22pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE470J	47pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE560J	56pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE101J	100pF	100	5%	.23	.155	.148	.111	370.00
581-EXCE221J	220pF	100	5%	.26	.176	.168	.126	420.00
581-EXCD391J	390pF	50	5%	.24	.176	.168	.126	420.00
581-EXCD471J	470pF	50	5%	.24	.176	.168	.126	420.00
581-EXCD561J	560pF	50	5%	.26	.176	.168	.126	420.00
581-EXCD102J	1000pF	50	5%	.30	.196	.172	.137	465.50

**X7R: Class II**

581-EXZE102K	1000pF	100	10%	.23	.147	.126	.105	357.00
581-EXZE122K	1200pF	100	10%	.23	.147	.126	.105	357.00
581-EXZE152K	1500pF	100	10%	.23	.147	.126	.105	357.00
581-EXZE222K	2200pF	100	10%	.23	.147	.126	.105	357.00
581-EXZE332K	3300pF	100	10%	.23	.147	.126	.105	357.00
581-EXZE472K	4700pF	100	10%	.24	.147	.126	.105	357.00
581-EXZD562K	5600pF	50	10%	.21	.161	.138	.115	390.00
581-EXZD103K	.01μF	50	10%	.18	.138	.115	.092	390.00
581-EXZD223K	.022μF	50	10%	.25	.189	.161	.126	440.00
581-EXZD333K	.033μF	50	10%	.30	.23	.20	.161	550.00

**Z5U: Class III**

581-EXWD103M	.01μF	50	20%	.14	.096	.08	.064	232.00
581-EXWD223M	.022μF	50	20%	.16	.105	.088	.07	253.75
581-EXWD333M	.033μF	50	20%	.18	.117	.098	.078	282.75
581-EXWD473M	.047μF	50	20%	.20	.132	.11	.088	319.00
581-EXWD563M	.056μF	50	20%	.20	.132	.11	.088	319.00
581-EXWD104M	.1μF	50	20%	.16	.13	.104	.086	319.00
581-EXWD154M	.15μF	50	20%	.25	.20	.16	.138	450.00
581-EXWD224M	.22μF	50	20%	.27	.21	.173	.15	500.00

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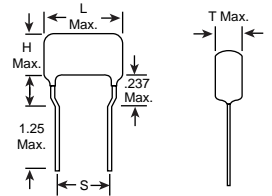
## TYPE 225P POLYESTER CAPACITORS

Type 225P capacitors are wound from PET polyester film and thin gauge foil under carefully controlled atmospheric conditions. Protected against moisture by a conformal coating of epoxy. Specifically designed for printed wiring board applications. Widely used in computers, instrumentation and telecommunications equipment.

### 100 VDC / 70 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)				Price Each			
		L	H	T	S	1	25	100	250
75-225P100V0.001	0.001	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0015	0.0015	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0022	0.0022	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0033	0.0033	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0039	0.0039	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0047	0.0047	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0056	0.0056	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.0068	0.0068	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.01	0.01	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.015	0.015	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.022	0.022	.70	.35	.25	.375	.56	.43	.24	.23
75-225P100V0.027	0.027	.70	.37	.27	.375	.56	.43	.24	.23
75-225P100V0.033	0.033	.70	.37	.27	.375	.67	.51	.29	.27
75-225P100V0.039	0.039	.70	.42	.30	.375	.62	.48	.27	.25
75-225P100V0.047	0.047	.70	.42	.30	.375	.62	.48	.27	.25
75-225P100V0.056	0.056	.70	.49	.34	.375	.67	.51	.29	.27
75-225P100V0.068	0.068	.70	.49	.34	.375	.67	.51	.29	.27
75-225P100V0.082	0.082	.70	.55	.40	.375	.67	.51	.29	.27
75-225P100V0.1	0.1	.70	.55	.40	.375	.67	.51	.29	.27
75-225P100V0.12	0.12	.80	.57	.37	.375	.88	.68	.38	.35
75-225P100V0.15	0.15	.80	.62	.40	.375	.88	.68	.38	.35
75-225P100V0.18	0.18	.80	.66	.43	.375	1.04	.80	.44	.41
75-225P100V0.22	0.22	.80	.70	.46	.375	1.04	.80	.44	.41
75-225P100V0.27	0.27	.80	.74	.49	.375	1.25	.96	.54	.50
75-225P100V0.33	0.33	.80	.77	.52	.375	1.25	.96	.54	.50
75-225P100V0.47	0.47	.80	.86	.60	.375	1.80	1.39	.77	.72
75-225P100V0.56	0.56	1.25	.88	.55	.719	2.20	1.70	.94	.88
75-225P100V0.68	0.68	1.25	.90	.58	.719	2.20	1.70	.94	.88
75-225P100V0.82	0.82	1.25	.94	.65	.719	2.73	2.11	1.17	1.09
75-225P100V1.0	1.0	1.25	.98	.72	.719	2.73	2.11	1.17	1.09



### Specifications:

- Operating temperature: -55°C to +85°C
- Tolerance ±10%
- Dissipation factor: maximum dissipation factor .75%
- Life test: shall withstand 500 hour life test at +85°C at 150% of rated voltage

DIMENSIONS (IN.)

### 200 VDC / 140 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)				Price Each			
		L	H	T	S	1	25	100	250
75-225P200V0.01	0.01	.80	.58	.28	.375	.67	.51	.29	.27
75-225P200V0.022	0.022	.80	.58	.28	.375	.75	.58	.32	.30
75-225P200V0.047	0.047	.80	.61	.28	.375	.82	.63	.35	.33
75-225P200V0.1	0.1	.80	.71	.37	.375	.82	.63	.35	.33
75-225P200V0.15	0.15	.80	.74	.41	.375	.88	.68	.38	.35
75-225P200V0.22	0.22	.80	.77	.48	.375	1.04	.80	.45	.42
75-225P200V0.33	0.33	1.25	.71	.41	.719	1.25	.96	.54	.50
75-225P200V0.47	0.47	1.25	.83	.50	.719	1.82	1.40	.78	.73
75-225P200V0.68	0.68	1.25	1.14	.84	.719	2.56	1.97	1.10	1.02

### 400 VDC / 200 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)				Price Each			
		L	H	T	S	1	25	100	250
75-225P400V0.001	0.001	.80	.55	.25	.375	.67	.51	.29	.27
75-225P400V0.0047	0.0047	.80	.55	.25	.375	.67	.51	.29	.27
75-225P400V0.01	0.01	.80	.58	.28	.375	.67	.51	.29	.27
75-225P400V0.015	0.015	.80	.58	.28	.375	.70	.54	.30	.28
75-225P400V0.022	0.022	.80	.58	.31	.375	.70	.54	.30	.28
75-225P400V0.033	0.033	.80	.65	.34	.375	.82	.63	.35	.33
75-225P400V0.047	0.047	.80	.65	.41	.375	.82	.63	.35	.33
75-225P400V0.1	0.1	.80	.84	.52	.375	1.04	.80	.44	.41
75-225P400V0.15	0.15	1.25	.80	.47	.719	1.25	.96	.54	.50
75-225P400V0.22	0.22	1.25	.89	.56	.719	1.82	1.40	.78	.73
75-225P400V0.33	0.33	1.25	.99	.72	.719	2.56	1.97	1.10	1.02
75-225P400V0.47	0.47	1.25	1.14	.84	.719	4.95	3.82	2.12	1.98

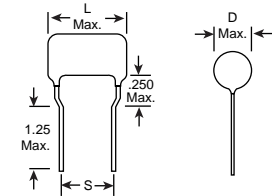
## TYPE 715P POLYPROPYLENE FILM CAPACITORS

Type 715P capacitors are ideal for applications where high AC current flow is found, as in certain solid-state TV vertical circuits, r-f generators, and pulse-forming networks where dielectric heating is often a problem.

### 200 VDC / 155 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)			Price Each			
		L	D	S	1	25	100	250
75-715P200V0.01	0.01	.75	.37	.375	.53	.40	.28	.26
75-715P200V0.015	0.015	.75	.37	.375	.53	.40	.28	.26
75-715P200V0.022	0.022	.75	.37	.375	.53	.40	.28	.26
75-715P200V0.033	0.033	.75	.42	.375	.60	.46	.32	.30
75-715P200V0.047	0.047	.95	.40	.375	.67	.52	.36	.34
75-715P200V0.068	0.068	.95	.45	.375	.67	.52	.36	.34
75-715P200V0.1	0.1	1.30	.45	.719	.77	.59	.41	.39
75-715P200V0.15	0.15	1.30	.55	.719	.89	.68	.47	.44
75-715P200V0.22	0.22	1.30	.62	.719	1.07	.82	.57	.54
75-715P200V0.33	0.33	1.70	.65	1.09	1.40	1.07	.75	.70
75-715P200V0.47	0.47	1.70	.75	1.09	1.71	1.31	.91	.86



### Specifications:

- Operating temperature: -55°C to 85°C; up to +105°C when working voltage is reduced to 50% of the 85°C rating
- Capacitance tolerance: ±10%
- Life test: shall withstand 500 hour life test at +85°C at 150% of rated voltage
- Conformally coated with a flame retardant epoxy

DIMENSIONS (IN.)

### 800 VDC / 450 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)			Price Each			
		L	D	S	1	25	100	250
75-715P800V0.0068	0.0068	1.30	.50	.719	.77	.59	.41	.38
75-715P800V0.01	0.01	1.30	.50	.719	.79	.61	.42	.40
75-715P800V0.015	0.015	1.30	.55	.719	.77	.59	.41	.39
75-715P800V0.022	0.022	1.30	.60	.719	.95	.72	.50	.47
75-715P800V0.033	0.033	1.30	.70	.719	1.21	.93	.65	.61
75-715P800V0.047	0.047	1.70	.70	1.09	1.56	1.20	.83	.78
75-715P800V0.068	0.068	1.70	.80	1.09	1.73	1.31	.91	.86
75-715P800V0.1	0.1	1.70	.90	1.09	2.03	1.56	1.08	1.02

### 400 VDC / 200 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)			Price Each			
		L	D	S	1	25	100	250
75-715P400V0.0047	0.0047	.75	.40	.375	.53	.40	.28	.26
75-715P400V0.0068	0.0068	.75	.40	.375	.53	.40	.28	.26
75-715P400V0.01	0.01	.75	.40	.375	.53	.40	.28	.26
75-715P400V0.022	0.022	.95	.45	.375	.67	.52	.36	.34
75-715P400V0.033	0.033	.95	.50	.375	.67	.52	.36	.34
75-715P400V0.047	0.047	1.30	.50	.719	.84	.64	.45	.42
75-715P400V0.068	0.068	1.30	.55	.719	.91	.70	.48	.45
75-715P400V0.1	0.1	1.30	.60	.719	.98	.75	.52	.49
75-715P400V0.15	0.15	1.30	.65	.719	1.06	.81	.56	.53
75-715P400V0.22	0.22	1.70	.70	1.09	1.42	1.09	.76	.71
75-715P400V0.33	0.33	1.70	.80	1.09	1.48	1.13	.79	.74
75-715P400V0.47	0.47	1.70	.90	1.09	2.03	1.56	1.08	1.02

### 1200 VDC / 475 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)			Price Each			
		L	D	S	1	25	100	250
75-715P1200V0.015	0.015	1.30	.65	.719	1.22	.93	.65	.61
75-715P1200V0.047	0.047	1.70	.85	1.09	2.02	1.55	1.07	1.01

### 600 VDC / 200 VAC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)	Dimensions (In.)			Price Each			
		L	D	S	1	25	100	250
75-715P600V0.001	0.001	.75	.40	.375	.47	.36	.25	.24
75-715P600V0.0015	0.0015	.75	.40	.375	.47	.36	.25	.24
75-715P600V0.0022	0.0022	.75	.40	.375	.47	.36	.25	.24
75-715P600V0.0033	0.0033	.75	.40	.375	.47	.36	.25	.24
75-715P600V0.0047	0.0047	.75	.45	.375	.47	.36	.25	.24
75-715P600V0.0068	0.0068	.75	.45	.375	.53	.40	.28	.26
75-715P600V0.01	0.01	.95	.45	.375	.59	.45	.31	.29
75-715P600V0.015	0.015	.95	.50	.375	.60	.46	.32	.30
75-715P600V0.022	0.022	.95	.55	.375	.62	.47	.33	.31
75-715P600V0.033	0.033	1.30	.55	.719	.81	.62	.43	.40
75-715P600V0.047	0.047	1.30	.60	.719	.77	.59	.41	.39
75-715P600V0.068	0.068	1.30	.65	.719	.94	.72	.50	.47
75-715P600V0.1	0.1	1.30	.75	.719	1.22	.93	.65	.61
75-715P600V0.15	0.15	1.70	.75	1.09	1.47	1.13	.78	.74
75-715P600V0.22	0.22	1.70	.85	1.09	2.03	1.56	1.08	1.02

### 1600 VDC / 500 VAC

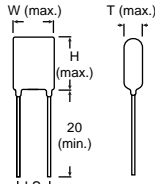
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Capacitance (µF)
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## POLYESTER

### Specifications:

- Rating temperature: -40°C to +85°C
- Withstanding volts: 250% rated voltage (5 sec.)
- Insulation resistance: Not >30GΩ @ 1KHz, 20°C
- Dielectric dissipation factor: Max. 1.0% @ 1 KHz, 25°C
- Coating: Conformally coated with flame retardant epoxy resin



**DIMENSIONS (mm)**

### 50 Volt ±10%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)			Price Each		
		W	H	T	1	100	500
140-PF1H102K	.001	6.0	10.5	3.0	.10	.052	.047
140-PF1H502K	.005	6.0	10.5	3.0	.10	.052	.047
140-PF1H103K	.01	6.5	12	3.5	.11	.057	.052
140-PF1H153K	.015	7.0	12	3.5	.11	.057	.052
140-PF1H203K	.02	7.0	12	4.0	.14	.067	.061
140-PF1H303K	.03	7.5	12	4.0	.15	.073	.066
140-PF1H473K	.047	8.5	13	5.0	.17	.085	.077
140-PF1H503K	.05	8.5	13	5.0	.17	.085	.077
140-PF1H104K	.1	11	14	6.0	.24	.12	.11
140-PF1H204K	.20	12.5	17	7.0	.36	.18	.15
140-PF1H224K	.22	13	17	7.5	.36	.18	.15
140-PF1H334K	.33	14.5	21	8.5	.38	.24	.22
140-PF1H474K	.47	16	22	9.0	.43	.27	.25

### 100 Volt ±2%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)			Price Each		
		W	H	T	1	100	500
140-PF2A102F	.001	6.0	10.5	3.0	.43	.30	.28
140-PF2A122F	.0012	6.0	10.5	3.0	.43	.30	.28
140-PF2A152F	.0015	6.0	10.5	3.0	.43	.30	.28
140-PF2A182F	.0018	6.0	10.5	3.0	.43	.30	.28
140-PF2A202F	.002	6.0	10.5	3.0	.43	.30	.28
140-PF2A222F	.0022	6.0	10.5	3.0	.43	.30	.28
140-PF2A272F	.0027	6.0	10.5	3.0	.43	.30	.28
140-PF2A302F	.003	6.0	10.5	3.0	.43	.30	.28
140-PF2A332F	.0033	6.0	10.5	3.0	.43	.30	.28
140-PF2A392F	.0039	6.0	10.5	3.0	.43	.30	.28
140-PF2A472F	.0047	6.0	10.5	3.0	.43	.30	.28
140-PF2A502F	.005	6.0	10.5	3.0	.43	.30	.28
140-PF2A562F	.0056	6.0	10.5	3.0	.43	.30	.28
140-PF2A682F	.0068	6.0	10.5	3.5	.43	.30	.28
140-PF2A822F	.0082	6.5	10.5	3.5	.43	.30	.28
140-PF2A103F	.01	6.5	12	3.5	.43	.30	.28
140-PF2A123F	.012	6.5	12	3.5	.43	.30	.28
140-PF2A153F	.015	7.0	12	3.5	.43	.30	.28
140-PF2A183F	.018	7.0	12	4.0	.43	.30	.28
140-PF2A203F	.02	7.0	12	4.0	.48	.31	.29
140-PF2A223F	.022	7.5	12	4.0	.48	.31	.29
140-PF2A273F	.027	7.5	12	4.0	.48	.31	.29
140-PF2A303F	.03	7.5	12	4.0	.56	.41	.37
140-PF2A333F	.033	8.0	12	5.0	.56	.41	.37
140-PF2A393F	.039	8.0	13	5.0	.59	.42	.37
140-PF2A473F	.047	8.5	13	5.0	.63	.44	.38
140-PF2A503F	.05	8.5	13	5.0	.65	.46	.43
140-PF2A563F	.056	9.0	13	5.0	.65	.46	.43
140-PF2A683F	.068	9.5	13	5.0	.68	.52	.49
140-PF2A823F	.082	10	13	6.0	.72	.56	.51
140-PF2A104F	.1	11	14	6.0	.72	.64	.58

### 100 Volt ±3%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)			Price Each		
		W	H	T	1	100	500
140-PF2A102G	.001	6.0	10.5	3.0	.39	.27	.25
140-PF2A122G	.0012	6.0	10.5	3.0	.39	.27	.25
140-PF2A152G	.0015	6.0	10.5	3.0	.39	.27	.25
140-PF2A182G	.0018	6.0	10.5	3.0	.39	.27	.25
140-PF2A202G	.002	6.0	10.5	3.0	.39	.27	.25
140-PF2A222G	.0022	6.0	10.5	3.0	.39	.27	.25
140-PF2A272G	.0027	6.0	10.5	3.0	.39	.27	.25
140-PF2A302G	.003	6.0	10.5	3.0	.39	.27	.25
140-PF2A332G	.0033	6.0	10.5	3.0	.39	.27	.25
140-PF2A392G	.0039	6.0	10.5	3.0	.39	.27	.25
140-PF2A472G	.0047	6.0	10.5	3.0	.39	.27	.25
140-PF2A502G	.0050	6.0	10.5	3.0	.39	.27	.25
140-PF2A562G	.0056	6.0	10.5	3.0	.39	.27	.25
140-PF2A682G	.0068	6.0	10.5	3.5	.39	.27	.25
140-PF2A822G	.0082	6.0	10.5	3.5	.39	.27	.25
140-PF2A103G	.01	6.5	12.0	3.5	.39	.27	.25
140-PF2A123G	.012	6.5	12.0	3.5	.39	.27	.25
140-PF2A153G	.015	7.0	12.0	3.5	.39	.27	.25
140-PF2A183G	.018	7.0	12.0	4.0	.39	.27	.25
140-PF2A203G	.02	7.5	12.0	4.0	.43	.28	.26
140-PF2A223G	.022	7.5	12.0	4.0	.43	.28	.26
140-PF2A273G	.027	7.5	12.0	4.0	.43	.28	.26
140-PF2A303G	.03	7.5	12.0	4.0	.55	.40	.36
140-PF2A333G	.033	8.0	12.0	5.0	.55	.40	.36
140-PF2A393G	.039	8.0	13.0	5.0	.56	.41	.37
140-PF2A473G	.047	8.5	13.0	5.0	.56	.41	.37
140-PF2A503G	.05	8.5	13.0	5.0	.56	.41	.37
140-PF2A563G	.056	9.0	13.0	5.0	.56	.41	.37
140-PF2A683G	.068	9.5	13.0	5.0	.58	.49	.45
140-PF2A823G	.082	10.0	13.0	6.0	.63	.57	.52
140-PF2A104G	.1	11	14.0	6.0	.63	.57	.52

LS (mm) ±1	Value (µF)	LS (mm) ±1	Value (µF)
3.5	.001-.012	7.5	.068-.12
4.0	.015-.03	9.0	.15-.27
5.0	.033-.056	10.0	.33-.68

### 100 Volt ±5%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)			Price Each		
		W	H	T	1	100	500
140-PF2A102J	.001	6.0	10.5	3.0	.12	.07	.061
140-PF2A122J	.0012	6.0	10.5	3.0	.12	.07	.061
140-PF2A152J	.0015	6.0	10.5	3.0	.12	.07	.061
140-PF2A182J	.0018	6.0	10.5	3.0	.12	.07	.061
140-PF2A202J	.002	6.0	10.5	3.0	.12	.07	.061
140-PF2A222J	.0022	6.0	10.5	3.0	.12	.07	.061
140-PF2A272J	.0027	6.0	10.5	3.0	.12	.07	.061
140-PF2A302J	.003	6.0	10.5	3.0	.12	.07	.061
140-PF2A332J	.0033	6.0	10.5	3.0	.12	.07	.061
140-PF2A392J	.0039	6.0	10.5	3.0	.12	.07	.061
140-PF2A472J	.0047	6.0	10.5	3.0	.12	.07	.061
140-PF2A502J	.005	6.0	10.5	3.0	.12	.07	.061
140-PF2A562J	.0056	6.0	10.5	3.0	.12	.07	.061
140-PF2A682J	.0068	6.0	10.5	3.5	.12	.07	.061
140-PF2A822J	.0082	6.5	10.5	3.5	.12	.07	.061
140-PF2A103J	.01	6.5	12	3.5	.14	.08	.063
140-PF2A123J	.012	6.5	12	3.5	.14	.08	.063
140-PF2A153J	.015	7.0	12	3.5	.14	.08	.063
140-PF2A183J	.018	7.0	12	4.0	.14	.08	.063
140-PF2A203J	.02	7.0	12	4.0	.19	.10	.088
140-PF2A223J	.022	7.5	12	4.0	.19	.10	.088
140-PF2A273J	.027	7.5	12	4.0	.19	.10	.088
140-PF2A303J	.03	7.5	12	4.0	.20	.12	.092
140-PF2A333J	.033	8.0	12	5.0	.20	.12	.092
140-PF2A393J	.039	8.0	13	5.0	.20	.12	.092
140-PF2A473J	.047	8.5	13	5.0	.21	.13	.099
140-PF2A503J	.05	8.5	13	5.0	.21	.13	.099
140-PF2A563J	.056	9.0	13	5.0	.21	.13	.099
140-PF2A683J	.068	9.5	13	5.0	.22	.14	.11
140-PF2A823J	.082	10	13	6.0	.22	.14	.13
140-PF2A104J	.1	11	14	6.0	.22	.16	.14
140-PF2A124J	.12	11	14	6.5	.22	.16	.14
140-PF2A154J	.15	12	17	7.0	.27	.18	.17
140-PF2A184J	.18	12.5	17	7.0	.29	.20	.18
140-PF2A224J	.22	13	17	7.5	.34	.25	.22
140-PF2A274J	.27	14.5	18	8.0	.37	.26	.22
140-PF2A334J	.33	14.5	21	8.5	.42	.28	.25
140-PF2A394J	.39	15	21	9.0	.47	.32	.29
140-PF2A474J	.47	16	22	9.0	.59	.42	.37

### 100 Volt ±10%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)			Price Each		
		W	H	T	1	100	500
140-PF2A102K	.001	6.0	10.5	3.0	.10	.06	.049
140-PF2A122K	.0012	6.0	10.5	3.0	.10	.06	.049
140-PF2A152K	.0015	6.0	10.5	3.0	.10	.06	.049
140-PF2A182K	.0018	6.0	10.5	3.0	.10	.06	.049
140-PF2A202K	.002	6.0	10.5	3.0	.10	.06	.049
140-PF2A222K	.0022	6.0	10.5	3.0	.10	.06	.049
140-PF2A272K	.0027	6.0	10.5	3.0	.10	.06	.049
140-PF2A302K	.003	6.0	10.5	3.0	.10	.06	.049
140-PF2A332K	.0033	6.0	10.5	3.0	.10	.06	.049
140-PF2A392K	.0039	6.0	10.5	3.0	.10	.06	.049
140-PF2A472K	.0047	6.0	10.5	3.0	.11	.06	.051
140-PF2A502K	.005	6.0	10.5	3.0	.11	.06	.051
140-PF2A562K	.0056	6.0	10.5	3.0	.10	.06	.049
140-PF2A682K	.0068	6.0	10.5	3.5	.10	.06	.049
140-PF2A822K	.0082	6.5	10.5	3.5	.10	.06	.049
140-PF2A103K	.01	6.5	12.0	3.5	.12	.07	.054
140-PF2A123K	.012	6.5	12.0	3.5	.12	.07	.061
140-PF2A153K	.015	7.0	12.0	3.5	.14	.07	.061
140-PF2A183K	.018	7.0	12.0	4.0	.13	.07	.061
140-PF2A203K	.02	7.0	12.0	4.0	.14	.08	.066
140-PF2A223K	.022	7.5	12.0	4.0	.14	.08	.066
140-PF2A273K	.027	7.5	12.0	4.0	.14	.08	.066
140-PF2A303K	.03	7.5	12.0	4.0	.16	.09	.07
140-PF2A333K	.033	8.0	12.0	5.0	.16	.09	.07
140-PF2A393K	.039	8.0	13.0	5.0	.16	.09	.07
140-PF2A473K	.047	8.5	13.0	5.0	.17		

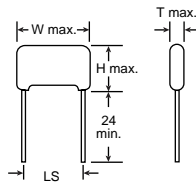
## METALLIZED

### Features:

- Non-inductive construction
- Self-healing characteristics
- High stability
- Efficient capacitance to volume packaging
- Protective conformal epoxy coating

### Specifications:

- Operating temperature: -40°C to 85°C with no voltage derating
- Dissipation factor: maximum 1% @ 1kHz, 20°C
- Dielectric strength: 150% of working voltage for 1 minute



DIMENSIONS (mm)

## 250V ± 10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	10	100	
146-250V.01K	.01	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.012K	.012	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.015K	.015	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.018K	.018	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.022K	.022	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.027K	.027	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.033K	.033	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.039K	.039	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.047K	.047	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.056K	.056	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.068K	.068	12.6	9.0	5.0	10	.26	.207	.18	
146-250V.082K	.082	12.5	9.0	5.0	10	.26	.207	.18	
146-250V.1K	.1	12.5	9.0	5.0	10	.27	.212	.185	
146-250V.12K	.12	12.5	9.5	5.5	10	.29	.235	.206	
146-250V.15K	.15	12.5	10	6.0	10	.31	.25	.218	
146-250V.18K	.18	18	10	5.5	15	.34	.27	.235	
146-250V.22K	.22	18	11	6.0	15	.36	.29	.251	
146-250V.27K	.27	18	12	6.5	15	.39	.314	.275	
146-250V.33K	.33	18	13	7.0	15	.41	.33	.284	
146-250V.39K	.39	18	14	7.5	15	.44	.353	.309	
146-250V.47K	.47	22	11	5.0	20	.47	.372	.325	
146-250V.56K	.56	23	13	7.0	20	.51	.41	.354	
146-250V.68K	.68	23	14	7.5	20	.53	.424	.37	
146-250V.82K	.82	23	15	8.0	20	.56	.452	.40	
146-250V1.0K	1.0	23	16	9.0	20	.64	.57	.51	
146-250V1.2K	1.2	23	17	10	20	.76	.72	.65	
146-250V1.5K	1.5	31	17	9.0	27	.86	.82	.76	
146-250V1.8K	1.8	31	18	9.5	27	.98	.94	.87	
146-250V2.2K	2.2	31	19	10	27	1.09	1.04	.91	
146-250V2.7K	2.7	31	20.5	11.5	27	1.35	1.30	1.22	
146-250V3.3K	3.3	31	22	13.5	27	1.62	1.59	1.52	
146-250V3.9K	3.9	31	23	15	27	1.91	1.88	1.80	
146-250V4.7K	4.7	31	24	16	27	2.06	2.01	1.88	

## 400V ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	10	100	
146-400V.01K	.01	12.5	9.0	5.0	10	.35	.30	.243	
146-400V.015K	.015	12.5	9.0	5.0	10	.36	.304	.250	
146-400V.022K	.022	12.5	9.0	5.0	10	.37	.31	.254	
146-400V.033K	.033	12.5	9.5	5.5	10	.38	.323	.265	
146-400V.047K	.047	12.5	11	6.5	10	.39	.33	.270	
146-400V.068K	.068	18	10	5.5	15	.44	.37	.302	
146-400V.1K	.1	18	11	6.0	15	.49	.414	.340	
146-400V.15K	.15	18	13	7.0	15	.53	.44	.353	
146-400V.22K	.22	18	15	8.5	15	.61	.51	.405	
146-400V.33K	.33	23	16	9.0	20	.73	.61	.485	
146-400V.47K	.47	23	18	11	20	.97	.812	.650	
146-400V2.2K	2.2	31	27	18	27	2.80	2.33	1.83	

## 630V ±10% Tolerance

For quantities greater than listed, call for quote.

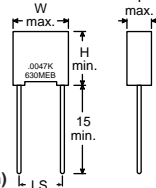
MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	10	100	
146-630V.01K	.01	12.5	9.5	5.5	10	.37	.31	.254	
146-630V.015K	.015	12.5	10	5.5	10	.39	.33	.27	
146-630V.022K	.022	12.5	11	6.0	10	.42	.356	.291	
146-630V.033K	.033	18	11	6.0	15	.44	.375	.306	
146-630V.047K	.047	18	12	6.5	15	.47	.40	.323	
146-630V.068K	.068	18	13	7.0	15	.57	.485	.397	
146-630V.1K	.1	23	13	7.0	20	.67	.563	.46	
146-630V.15K	.15	23	15	8.5	20	.78	.66	.54	
146-630V.22K	.22	23	16.5	9.5	20	1.00	.843	.69	
146-630V.33K	.33	31	18.5	9.5	27	1.18	1.00	.82	
146-630V.47K	.47	31	21	12	27	1.56	1.32	1.08	
146-630V1.0K	1.0	31	27	18	27	2.63	2.25	1.89	

## METALLIZED BOX

These Xicon box case capacitors feature non-inductive windings, tin plated copper leads, and epoxy seals for reliable electrical and mechanical performance. They are well suited to telecommunications, industrial circuits, and data processing equipment where filtering, coupling, decoupling, or timing is required.

### Specifications:

- Operating temperature: -40°C to +85°C
- Dissipation factor: 1% max. @ 1kHz, 25°C
- Insulation resistance: (IR): Cs.33µF  
IR>30GΩ  
Cs.33µF  
IR>10GΩ



DIMENSIONS (mm)

## 100V ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	100	500	
1430-1683	.068	10.5	9	4	7.5	.25	.21	.19	
1430-1104	.1	13	11	5	10	.25	.21	.19	
1430-1154	.15	13	11	5	10	.26	.25	.23	
1430-1224	.22	13	12	6	10	.28	.23	.21	
1430-1334	.33	13	12	6	10	.33	.26	.24	
1430-1474	.47	18	12	6	15	.47	.34	.30	
1430-1684	.68	18	12	6	15	.56	.41	.37	
1430-1105	1.0	18	13.5	7.5	15	.69	.53	.48	
1430-1225	2.2	26.5	17.5	8.5	22.5	1.23	.92	.86	
1430-1475	4.7	32	20	11	27.5	1.83	1.52	1.38	

## 250V ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	100	500	
1430-2473	.047	10.5	9	4	10	.23	.20	.18	
1430-2104	.1	13	11	5	10	.26	.21	.19	
1430-2224	.22	18	12	6	15	.36	.27	.25	
1430-2474	.47	26.5	15	6	22.5	.52	.39	.35	
1430-2105	1.0	26.5	17	8.5	22.5	.82	.66	.58	

## 400V ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	100	500	
1430-4223	.022	13	11	5	10	.22	.19	.18	
1430-4473	.047	13	12	6	10	.29	.23	.22	
1430-4683	.068	18	11	5	15	.29	.25	.23	
1430-4104	.1	18	12	6	15	.40	.28	.26	
1430-4224	.22	26.5	15	6	22.5	.59	.48	.44	

## 630V ±10% Tolerance

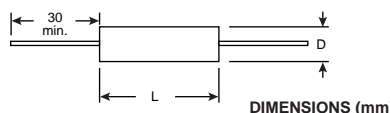
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)					Price Each		
		W	H	T	LS	1	100	500	
1430-6102	.001	10.5	9	4	7.5	.24	.22	.21	
1430-6222	.0022	10.5	9	4	7.5	.24	.22	.21	
1430-6472	.0047	10.5	9	4	7.5	.24	.22	.21	
1430-6103	.01	13	11	5	10	.25	.22	.20	
1430-6223	.022	13	12	6	10	.25	.23	.22	
1430-6333	.033	13	13	7	10	.28	.25	.24	
1430-6473	.047	18	12	6	15	.46	.31	.28	
1430-6104	.1	18	14.5	8.5	15	.45	.41	.37	

## METALLIZED

### Specifications:

- Operating temp: -40°C to +85°C
- Test voltage: 750V
- Non-inductive and self healing



DIMENSIONS (mm)

## 250V ± 10% Tolerance

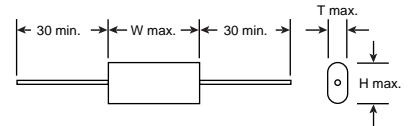
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)		Price Each		
		D	L	1	100	500
23ME310	.01	5.5	14	.49	.39	.34
23ME322	.022	5.5	14	.49	.39	.34
23ME347	.047	5.5	14	.49	.39	.34
23ME368	.068	5.5	14	.49	.39	.34
23ME410	.1	6.0	14	.50	.42	.38
23ME415	.15	6.5	14	.50	.42	.38
23ME422	.22	7.0	19	.54	.46	.41
23ME433	.33	8.0	19	.54	.46	.41
23ME447	.47	9.0	19	.57	.48	.43
23ME468	.68	9.0	25	.64	.54	.48
23ME510	1.0	10.5	25	.73	.62	.55
23ME520	2.0	14	32	1.18	1.00	.89
23ME522	2.2	14	32	1.18	1.00	.89

## METALLIZED

### Specifications:

- Operating temp.: -40°C to +85°C
- Test voltage: WV x 1.6
- Insulation resistance: 10 GΩ
- Non-inductive and self healing



DIMENSIONS (mm)

## 250V ± 10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)				Price Each		
		W	H	T	1	100	500	
23MA410	.1	14	8.5	4.5	.55	.43	.39	
23MA415	.15	14	9.0	5.0	.56	.47	.43	
23MA422	.22	14	10	6.0	.57	.48	.44	
23MA433	.33	19	12	6.5	.57	.48	.44	
23MA447	.47	19	13	7.0	.67	.57	.52	
23MA468	.68	25	12.5	6.5	.79	.67	.61	
23MA510	1.0	25	14	7.5	.79	.67	.61	
23MA515	1.5	32	16	8.5	1.27	1.07	.98	
23MA522	2.2	32	18	9.5	1.31	1.19	1.07	

## 400V ± 10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Dimensions (mm)				Price Each		
		W	H	T	1	100	500	
23MA347	.047	14	12	4.5	.			



# Polypropylene and Polystyrene Film Capacitors

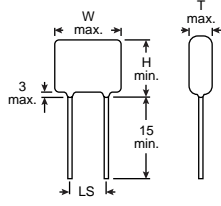
## XICON Passive Components POLYPROPYLENE CAPACITORS

Constructed with polypropylene film dielectric in a non-inductive form. They feature low dissipation factor, high insulation resistance, fire retardant coating, and welded leads.

### Specifications:

- Operating temperature: -40°C to +85°C
- Test voltage: WVDC x 2.0
- Insulation resistance: 30GΩ

DIMENSIONS (mm)



### ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	WVDC	Dimensions (mm)				Price Each			
			W	H	T	LS	1	100	500	1000
1431-6102K	.001	630	14	8.5	5.5	10	.33	.21	.19	.17
1431-6152K	.0015	630	14	9.5	6	10	.33	.21	.19	.17
1431-6222K	.0022	630	14	10	6.5	10	.33	.21	.19	.18
1431-4332K	.0033	400	14	9.5	6.0	10	.29	.20	.17	.16
1431-4472K	.0047	400	14	9.5	6.1	10	.30	.20	.18	.17
1431-4682K	.0068	400	14	10	6.5	10	.33	.22	.20	.18
1431-4103K	.010	400	14	12	7.5	10	.35	.23	.21	.19
1431-2153K	.015	250	14	10	6.5	10	.34	.23	.20	.19
1431-2223K	.022	250	14	12	7.5	10	.36	.24	.22	.20
1431-2333K	.033	250	19	11.5	6.5	15	.41	.27	.25	.23
1431-2473K	.047	250	19	13	7.5	15	.45	.30	.28	.25
1431-2563K	.056	250	19	13	8.0	15	.47	.31	.28	.26
1431-2683K	.068	250	19	14	9.0	15	.49	.33	.30	.27
1431-2104K	.1	250	20	16	10	15	.53	.36	.32	.29
1431-2154K	.15	250	26	18	10.5	21	.54	.35	.32	.28
1431-2224K	.22	250	26	21	13	22	.62	.41	.38	.34
1431-2334K	.33	250	31	21	13	27.5	.82	.61	.55	.50

### ±5% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	WVDC	Dimensions (mm)				Price Each			
			W	H	T	LS	1	100	500	1000
1431-4103J	.01	400	14	12	7.5	10	.39	.26	.23	.21
1431-2104J	.1	250	20	16	10	15	.59	.39	.36	.32
14031-2474J	.47	250	30	24	16	27.5	.85	.77	.70	.63

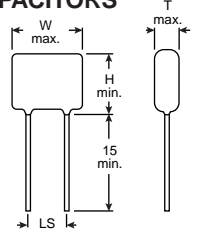
## 105°C METALLIZED POLYPROPYLENE CAPACITORS

These Xicon MPP Series capacitors feature non-inductive windings, copper clad steel leads, and environmentally resistive epoxy coatings for excellent electrical and mechanical performance. The non-inductive, polypropylene capacitor is especially suitable to telecommunication, industrial circuits, and data processing equipment where filtering, coupling, stable tuning, timing, or temperature compensation is required.

### Specifications:

- Operating temperature: -55°C to +105°C
- Capacitance tolerance: ±10%
- Dissipation factor: 0.1% max @ 1KHz, 25°C
- Insulation resistance: C ≤ .33μF, IR > 30GΩ  
C > .33μF, IR > 10GΩ

DIMENSIONS (mm)



### 100 WVDC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (mm)				Price Each			
		W	H	T	LS	1	50	100	500
1429-1104	.1	13	11	6.5	10	.44	.29	.27	.24
1429-1474	.47	18.5	14	8.0	15	.70	.47	.43	.39

### 250 WVDC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (mm)				Price Each			
		W	H	T	LS	1	50	100	500
1429-2223	.022	13	10	6.0	10	.39	.26	.24	.22
1429-2333	.033	13	10	6.0	10	.43	.29	.26	.24
1429-2473	.047	13	10.5	6.0	10	.46	.31	.28	.25
1429-2104	.1	13	12	7	10	.56	.37	.34	.31
1429-2224	.22	18.5	13	7.0	15	.59	.39	.36	.33
1429-2334	.33	18.5	14.5	8.0	15	.86	.62	.56	.51
1429-2474	.47	18.5	15.5	10	15	.92	.71	.65	.58
1429-2105	1.0	32	16.5	10	27.5	1.17	.90	.82	.74
1429-2225	2.2	32	21.5	14.5	27.5	1.67	1.39	1.26	1.15
1429-2475	4.7	32	29	19	27.5	3.49	2.91	2.65	2.41

### 400 WVDC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (mm)				Price Each			
		W	H	T	LS	1	50	100	500
1429-4472	.0047	10.5	9.0	5.5	7.5	.37	.25	.22	.20
1429-4103	.01	13	9.0	5.5	10	.37	.25	.22	.20
1429-4473	.047	13	12.5	7.5	10	.48	.32	.29	.26
1429-4104	.1	18.5	13.5	8.0	15	.63	.42	.38	.34

### 630 WVDC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (mm)				Price Each			
		W	H	T	LS	1	50	100	500
1429-6102	.001	10.5	9.0	5.5	10	.44	.30	.27	.25
1429-6222	.0022	10.5	9.0	5.5	10	.44	.30	.27	.25
1429-6472	.0047	13	9.5	5.5	10	.44	.30	.27	.25
1429-6103	.01	13	11.5	6.5	10	.46	.30	.27	.25
1429-6223	.022	13	13.5	9.0	10	.53	.35	.32	.29
1429-6473	.047	18.5	14.5	8.5	15	.63	.42	.38	.34
1429-6104	.1	23	17.5	10.5	20	.73	.48	.44	.40
1429-6224	.22	32	19	12	27.5	.97	.75	.68	.62
1429-6474	.47	32	24	15	27.5	1.43	1.19	1.08	.99

## XICON Passive Components AXIAL 5% POLYSTYRENE CAPACITORS

Comprised of polystyrene dielectric material fused to foil, these capacitors are highly resistant to humidity and provide excellent capacitance stability.

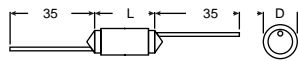
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	D x L (mm)	Price Each			
			1	100	500	1000
23PS110	100pF	5.5 x 12	.24	.12	.11	.10
23PS112	120pF	5.5 x 12	.24	.12	.11	.10
23PS115	150pF	5.5 x 12	.24	.12	.11	.10
23PS118	180pF	5.5 x 12	.24	.12	.11	.10
23PS122	220pF	5.5 x 12	.24	.12	.11	.10
23PS127	270pF	5.5 x 12	.24	.12	.11	.10
23PS133	330pF	5.5 x 12	.22	.11	.10	.09
23PS139	390pF	5.5 x 12	.22	.11	.10	.09
23PS147	470pF	5.5 x 12	.22	.11	.10	.09
23PS156	560pF	5.5 x 12	.22	.11	.10	.09
23PS168	680pF	5.5 x 12	.22	.11	.10	.09
23PS182	820pF	6.0 x 12	.22	.11	.10	.09
23PS210	1000pF	6.0 x 12	.22	.11	.10	.09

### Features:

- Excellent electrical characteristics
- High reliability and stability
- Low temperature coefficients
- Small dissipation factor

DIMENSIONS (mm)



### Specifications:

- ±5% tolerance
- Dissipation factor (@ 100KHz): DF < 0.1% C ≥ 330pF Q > 1000 C < 330pF
- Operating temperature: -10°C to +70°C
- Temperature coefficient: N150 ±ppm/°C
- Insulation resistance (@25°C): 100GΩ (min.)
- 50 WVDC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	D x L (mm)	Price Each			
			1	100	500	1000
23PS212	1200pF	6.0 x 12	.24	.12	.11	.10
23PS215	1500pF	6.0 x 12	.24	.12	.11	.10
23PS218	1800pF	6.0 x 12	.24	.12	.11	.10
23PS220	2000pF	6.5 x 12	.24	.12	.11	.10
23PS222	2200pF	6.5 x 12	.24	.12	.11	.10
23PS227	2700pF	7.0 x 12	.25	.12	.11	.10
23PS233	3300pF	7.0 x 12	.26	.13	.12	.11
23PS239	3900pF	7.5 x 12	.26	.13	.12	.11
23PS247	4700pF	8.0 x 12	.28	.14	.13	.12
23PS250	5000pF	8.0 x 12	.30	.15	.14	.12
23PS268	6800pF	9.0 x 12	.32	.16	.14	.13
23PS282	8200pF	9.5 x 12	.34	.17	.16	.14
23PS310	10,000pF	10 x 12	.38	.19	.17	.16

## XICON Passive Components RADIAL 5% POLYSTYRENE CAPACITORS

Comprised of polystyrene dielectric material fused to foil, these capacitors are highly resistant to humidity and provide excellent capacitance stability.

### Features:

- Excellent electrical characteristics
- High reliability and stability
- Low temperature coefficients
- Small dissipation factor

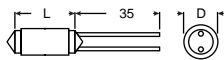
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value	D x L (mm)	Price Each			
			1	100	500	1000
23PW156	560pF	5.5 x 12	.22	.11	.10	.09
23PW210	1000pF	6.0 x 12	.22	.11	.10	.09
23PW220	2000pF	6.0 x 12	.24	.12	.11	.10
23PW222	2200pF	6.5 x 12	.24	.12	.11	.10
23PW233	3300pF	7.0 x 12	.26	.13	.12	.11
23PW247	4700pF	8.0 x 12	.28	.14	.13	.12
23PW250	5000pF	8.0 x 12	.30	.15	.14	.12
23PW268	6800pF	9.0 x 12	.32	.16	.14	.13
23PW310	10,000pF	10 x 12	.38	.19	.17	.16

### Specifications:

- ±5% tolerance
- Dissipation factor (@ 100KHz): DF < 0.1% C ≥ 330pF Q > 1000 C < 330pF
- Operating temp.: -10°C to +70°C
- Temp. coefficient: N150 ±ppm/°C
- Insulation resist. (@25°C): 100GΩ (min.)
- 50 WVDC

DIMENSIONS (mm)



## XICON Passive Components 5% POLYSTYRENE CAPACITOR KITS

### Features:

- 50 WVDC
- Axial leads
- 10 ea. of 12 values ea. kit ±5%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Pieces Per Kit	Description	Price Each
370-PS1	120	10 ea.: 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820 pF	24.95
370-PS2	120	10 ea.: 1000, 1200, 1500, 1800, 2000, 2200, 2700, 3300, 3900, 5000, 6800, 10,000pF	24.95

# Capacitors

## MALLOY 158X SERIES - TYPE X2 SUPPRESSOR METALLIZED POLYESTER FILM

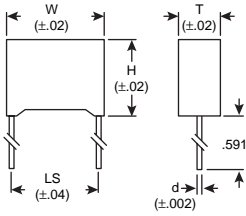


### Features:

- UL 1414 and CSA Approved
- Flame retardant case meets UL 94V0
- Polyurethane end fill meets UL 94V0
- Used in applications where damage to the capacitor will not lead to the danger of electrical shock

### Specifications:

- Operating temperature: -40°C to +100°C
- Voltage range: 250Vrms
- Tolerance: ±20%
- Lead material: tinned copper clad steel



Safety Agency	Standard	File Number
UL	UL-1414	E151554
UL	UL-1283	E151553
CSA	C22 2, No.8-M1986	LR37404-33M
VDE	VDE0565-1	18022-4670-1700
SEMKO	SS443-04-01	9308002
SEV	SEV1055	92.552158.01
EI	E384/14-82 (IEC384-14, 1981)	164090-01
DEMKO	Heavy Current Regulations Section 21 and IEC384-14	112398EC/121
NEMKO	NEMKO132/85	M70107

DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

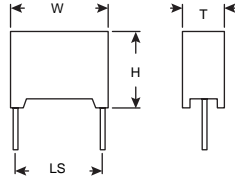
MOUSER STOCK NO.	Value (μF)	Dimensions (In.)					Price Each			
		W	T	H	LS	d	1	100	500	1000
539-158X103	0.01	0.669	0.197	0.473	0.591	0.024	.76	.54	.46	.36
539-158X223	0.022	0.669	0.197	0.472	0.591	0.024	.76	.54	.46	.36
539-158X333	0.033	0.669	0.197	0.472	0.591	0.024	.76	.54	.46	.36
539-158X473	0.047	0.669	0.217	0.492	0.591	0.031	.81	.58	.49	.38
539-158X104	0.1	0.669	0.315	0.591	0.591	0.031	.85	.60	.51	.40
539-158X224	0.22	0.984	0.315	0.689	0.886	0.031	1.38	.98	.83	.60
539-158X334	0.33	0.984	0.394	0.768	0.886	0.031	1.76	1.25	1.06	.82
539-158X474	0.47	1.181	0.433	0.866	1.083	0.031	2.07	1.47	1.25	.96
539-158X684	0.68	1.181	0.531	0.965	1.083	0.031	3.13	2.23	1.89	1.46
539-158X105	1.0	1.201	0.630	1.102	1.083	0.039	3.82	2.73	2.31	1.78
539-158X225	2.2	1.614	0.689	1.280	1.476	0.039	7.56	5.39	4.09	3.35

## THOMSON PASSIVE COMPONENTS MC SERIES METALLIZED POLYESTER FILM

MC series metallized polyester film capacitors have a molded, flame retardant case with epoxy fill. All capacitors are marked on top of case in black with capacitance value, tolerance code and DC voltage. They have excellent capacity stability over a wide temperature range and are ideally suited for industrial and commercial equipment.

### Specifications:

- Operating temperature: -55°C to +100°C derated @ 1.25% per °C from +85°C to +100°C
- Insulation resistance: ≥30,000 MΩ for Cs.33μF and Vr > 100VDC  
≥10,000 MΩ for Cs.33μF and Vr ≥ 100VDC  
≥10,000 MΩ for Vr ≥ 100VDC
- DF <1% @ 1KHz @ 25°C



DIMENSIONS (IN.)

### 100 Volt ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (In.)					Price Each		
		W	T	H	LS	1	100	500	
581-MC683K1B	.068	.413	.157	.354	.295	.23	.19	.17	
581-MC104K1C	.1	.512	.157	.354	.394	.23	.19	.17	
581-MC154K1C	.15	.512	.157	.354	.394	.26	.22	.19	
581-MC224K1D	.22	.512	.197	.433	.394	.31	.26	.23	
581-MC334K1F	.33	.709	.197	.433	.591	.39	.32	.29	
581-MC474K1F	.47	.709	.197	.433	.591	.49	.41	.36	
581-MC684K1G	.68	.709	.236	.472	.591	.68	.56	.50	
581-MC105K1H	1.0	.709	.295	.531	.591	.88	.73	.65	

### 250 Volt ±10% Tolerance

For quantities greater than listed, call for quote.

581-MC473K2C	.047	.512	.157	.354	.394	.23	.19	.17
581-MC104K2D	.1	.512	.197	.433	.394	.27	.22	.20

### 400 Volt ±10% Tolerance

For quantities greater than listed, call for quote.

581-MC223K4C	.022	.512	.157	.354	.394	.23	.19	.17
581-MC473K4D	.047	.512	.197	.433	.394	.25	.21	.19
581-MC683K4F	.068	.709	.197	.433	.591	.26	.22	.20
581-MC104K4F	.1	.709	.197	.433	.591	.30	.25	.22

### 630 Volt ±10% Tolerance

For quantities greater than listed, call for quote.

581-MC102K6B	.001	.413	.157	.354	.295	.23	.19	.17
581-MC472K6C	.0047	.512	.157	.354	.394	.23	.19	.17
581-MC103K6C	.01	.512	.157	.354	.394	.23	.19	.17
581-MC333K6F	.033	.709	.197	.433	.591	.25	.19	.17
581-MC104K6J	.1	1.04	.236	.591	.886	.47	.39	.34

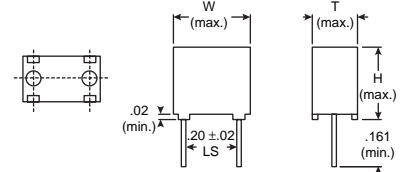
## THOMSON PASSIVE COMPONENTS BF SERIES MULTILAYER METALLIZED POLYESTER FILM

The industry standard upgrade for CK05 type ceramic capacitors

The Thomson multilayer film capacitors are a fully automated line of metallized miniature polyester film capacitors, featuring a proprietary multilayer film construction. These capacitors are especially well suited for printed circuits, coupling and decoupling of logic integrated circuits, filtering, timing, bypass, or in space-limited applications.

### Features:

- Space-saving multilayer film construction
- Superior electrical characteristics
- Recommended soldering conditions are: 260°C for 5 seconds



DIMENSIONS (IN.)

### Specifications:

- Operating Temperature: -55°C to 100°C derated @ 1.25% per °C from 85°C to 100°C
- Insulation resistance: > 10GΩ typical (4GΩ min.)
- Dissipation factor: < 0.8% @ 1KHz

### 63 Volt ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (In.)			Price Each			
		W	T	H	1	100	500	1000
581-3N3K63	.0033	.295	.098	.256	.26	.17	.16	.14
581-22N63	.022	.295	.098	.256	.26	.17	.16	.14
581-150N63	.15	.295	.126	.315	.39	.26	.24	.22
581-220N63	.22	.295	.126	.315	.44	.29	.27	.24
581-330N63	.33	.295	.126	.315	.53	.35	.32	.29
581-470N63	.47	.295	.197	.315	.67	.45	.41	.37
581-1000N63	1.0	.295	.197	.315	1.31	.87	.80	.73

### 63 Volt ±5% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (In.)			Price Each			
		W	T	H	1	100	500	1000
581-1N0J63	.001	.295	.098	.256	.27	.18	.17	.15
581-10N63	.01	.295	.098	.256	.28	.19	.18	.16
581-100N63	.1	.295	.098	.256	.30	.21	.19	.17
581-330N63	.33	.295	.126	.315	.58	.39	.35	.32
581-470N63	.47	.295	.197	.315	.73	.49	.45	.41
581-1000N63	1.0	.295	.197	.315	1.40	.94	.86	.80

### 100 Volt ±10% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (In.)			Price Each			
		W	T	H	1	100	500	1000
581-1N0K100	.001	.295	.098	.256	.26	.17	.16	.14
581-1N5K100	.0015	.295	.098	.256	.26	.17	.16	.14
581-2N2K100	.0022	.295	.098	.256	.26	.17	.16	.14
581-3N3K100	.0033	.295	.098	.256	.26	.17	.16	.14
581-4N7K100	.0047	.295	.098	.256	.26	.17	.16	.14
581-6N8K100	.0068	.295	.098	.256	.26	.17	.16	.14
581-10N100	.01	.295	.098	.256	.26	.17	.16	.14
581-15N100	.015	.295	.098	.256	.26	.17	.16	.14
581-22N100	.022	.295	.098	.256	.26	.17	.16	.14
581-33N100	.033	.295	.098	.256	.26	.17	.16	.14
581-47N100	.047	.295	.098	.256	.26	.17	.16	.14
581-68N100	.068	.295	.098	.256	.27	.18	.17	.15
581-100N100	.1	.295	.098	.256	.28	.19	.18	.16

### 63 Volt ±5% Tolerance

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (μF)	Dimensions (In.)			Price Each			
		W	T	H	1	100	500	1000
581-100N100	.1	.295	.098	.256	.30	.21	.19	.17

### Metallized Polyester Film Capacitor Kit

MOUSER STOCK NO.	Type	No. of Pieces	Value (Ω)	Price Each
581-BFKIT	±10%, 63V	15 of ea. value	1000pF, 2200pF, 3300pF, 4700pF, 6800pF, .01μF, .022μF, .033μF, .047μF, .068μF, .1μF, .22μF, .33μF	29.95
	±10%, 63V	10 of ea. value	.47μF and 1.0μF	
	±10%, 100V	15 of ea. value	1500pF, .015μF, .1μF	

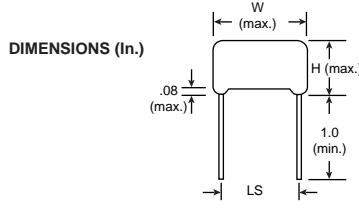
## MINIATURE METALLIZED POLYESTER CAPACITORS

Type DME radial-leaded, mini-dipped capacitors deliver the performance of other capacitors which have cases that are twice as big. Improvements in film technology permit the use of thinner dielectric and make DME the choice for all but higher current AC applications where the larger size may be an advantage. DME self heals shorts caused by overvoltage transients. For small size and low cost, DME is tops.

Cross Reference	
Cornell Dubilier	Panasonic
DME Series	ECQE-----F

### Specifications:

- Voltage range: 100-630VDC (65-250VAC)
- Capacitance range: .01-10  $\mu$ F
- Capacitance tolerance:  $\pm$  10%
- Operating temperature range: -55°C to 125°C  
full-rated voltage @ 85°C - Derate linearly to  
50% - rated voltage @ 125°C
- Dielectric strength: 150%
- Dissipation Factor: 1% (max.)
- Insulation resistance: 3,000M $\Omega$  x  $\mu$ F  
9,000M $\Omega$  (min.)
- Life test: 1,000 hours at 85°C @ 125% rated voltage



Rated Volts	Pulse Capability				
	Body Length				
	.408	.472	.728	1.024	1.220
	dV/dt-volts per microsecond, maximum				
100	25	16	10	6	- - -
250	31	20	12	7	6
400	46	30	17	11	9
630	101	66	33	19	15

### Features:

- Same performance of other capacitors with a case that is twice as big
- DME self heals shorts caused by overvoltage transients
- Small size/low cost

### 100 VDC (65 VAC)

MOUSER STOCK NO.	Mfg. Type	Value ( $\mu$ F)	Dimensions (In.)					Price Each		
			W	H	T	D	LS	1	10	100
5989-100V.56	DME1P56K	.56	.472	.429	.217	.024	.394	.50	.43	.36
5989-100V.68	DME1P68K	.68	.472	.469	.236	.024	.394	.52	.45	.37
5989-100V.82	DME1P82K	.82	.472	.531	.236	.024	.394	.57	.49	.41
5989-100V1.0	DME1W1K	1.0	.472	.551	.264	.024	.394	.60	.51	.43
5989-100V1.2	DME1W1P2K	1.2	.728	.504	.217	.024	.591	.73	.62	.52
5989-100V1.5	DME1W1P5K	1.5	.728	.528	.236	.032	.591	.83	.71	.60
5989-100V1.8	DME1W1P8K	1.8	.728	.567	.256	.032	.591	.93	.80	.67
5989-100V2.2	DME1W2P2K	2.2	.728	.591	.276	.032	.591	1.03	.88	.73
5989-100V2.7	DME1W2P7K	2.7	.728	.622	.315	.032	.591	1.18	1.01	.84
5989-100V3.3	DME1W3P3K	3.3	.728	.65	.335	.032	.591	1.53	1.31	1.09
5989-100V3.9	DME1W3P9K	3.9	1.024	.646	.276	.032	.886	1.73	1.49	1.24
5989-100V4.7	DME1W4P7K	4.7	1.024	.669	.295	.032	.886	1.96	1.68	1.40
5989-100V5.6	DME1W5P6K	5.6	1.024	.689	.327	.032	.886	2.32	1.99	1.66
5989-100V6.8	DME1W6P8K	6.8	1.024	.728	.354	.032	.886	2.63	2.25	1.88
5989-100V8.2	DME1W8P2K	8.2	1.024	.787	.394	.032	.886	2.83	2.43	2.02
5989-100V10	DME1W10K	10.0	1.024	.827	.453	.032	.886	3.53	3.02	2.52

### 250 VDC (160 VAC)

MOUSER STOCK NO.	Mfg. Type	Value ( $\mu$ F)	Dimensions (In.)					Price Each		
			W	H	T	D	LS	1	10	100
5989-250V.01	DME2S1K	.01	.406	.291	.169	.024	.295	.25	.22	.18
5989-250V.012	DME2S12K	.012	.406	.295	.173	.024	.295	.25	.22	.18
5989-250V.015	DME2S15K	.015	.406	.295	.173	.024	.295	.25	.22	.18
5989-250V.018	DME2S18K	.018	.406	.295	.173	.024	.295	.25	.22	.18
5989-250V.022	DME2S22K	.022	.406	.295	.173	.024	.295	.25	.22	.18
5989-250V.027	DME2S27K	.027	.406	.295	.173	.024	.295	.25	.22	.18
5989-250V.033	DME2S33K	.033	.406	.295	.177	.024	.295	.25	.22	.18
5989-250V.039	DME2S39K	.039	.406	.295	.177	.024	.295	.25	.22	.18
5989-250V.047	DME2S47K	.047	.406	.295	.177	.024	.295	.22	.19	.16
5989-250V.056	DME2S56K	.056	.406	.311	.189	.024	.295	.27	.23	.19
5989-250V.068	DME2S68K	.068	.406	.295	.177	.024	.295	.28	.24	.20
5989-250V.082	DME2S82K	.082	.406	.315	.193	.024	.295	.29	.25	.21
5989-250V.1	DME2P1K	.1	.406	.331	.228	.024	.295	.32	.27	.23
5989-250V.12	DME2P12K	.12	.406	.354	.236	.024	.295	.35	.30	.25
5989-250V.15	DME2P15K	.15	.406	.425	.236	.024	.295	.36	.31	.26
5989-250V.18	DME2P18K	.18	.472	.406	.197	.024	.394	.37	.32	.26
5989-250V.22	DME2P22K	.22	.472	.413	.217	.024	.394	.38	.32	.27
5989-250V.27	DME2P27K	.27	.472	.453	.236	.024	.394	.40	.34	.28
5989-250V.33	DME2P33K	.33	.472	.472	.256	.024	.394	.43	.37	.31
5989-250V.39	DME2P39K	.39	.728	.472	.193	.024	.591	.47	.40	.33
5989-250V.47	DME2P47K	.47	.728	.492	.209	.024	.591	.50	.43	.36
5989-250V.56	DME2P56K	.56	.728	.512	.217	.024	.591	.54	.47	.39
5989-250V.68	DME2P68K	.68	.728	.531	.236	.032	.591	.60	.52	.43
5989-250V.82	DME2P82K	.82	.728	.571	.256	.032	.591	.67	.57	.48
5989-250V1.0	DME2W1K	1.0	.728	.591	.291	.032	.591	.71	.61	.51
5989-250V1.2	DME2W1P2K	1.2	.728	.626	.315	.032	.591	.79	.68	.57
5989-250V1.5	DME2W1P5K	1.5	.728	.661	.354	.032	.591	.97	.83	.70
5989-250V1.8	DME2W1P8K	1.8	1.024	.61	.295	.032	.886	1.09	.93	.78
5989-250V2.2	DME2W2P2K	2.2	1.024	.642	.335	.032	.886	1.19	1.02	.85
5989-250V2.7	DME2W2P7K	2.7	1.024	.669	.37	.032	.886	1.34	1.15	.96
5989-250V3.3	DME2W3P3K	3.3	1.024	.709	.406	.032	.886	1.64	1.40	1.17
5989-250V3.9	DME2W3P9K	3.9	1.024	.807	.433	.032	.886	2.64	2.26	1.89
5989-250V4.7	DME2W4P7K	4.7	1.024	.846	.472	.032	.886	2.94	2.52	2.10
5989-250V5.6	DME2W5P6K	5.6	1.22	.827	.465	.032	1.083	3.71	3.18	2.65
5989-250V6.8	DME2W6P8K	6.8	1.22	.882	.512	.032	1.083	4.04	3.47	2.89
5989-250V8.2	DME2W8P2K	8.2	1.22	.925	.563	.032	1.083	4.82	4.13	3.44
5989-250V10.0	DME2W10K	10.0	1.22	1.016	.626	.032	1.083	5.59	4.79	3.99

### 400 VDC (200 VAC)

MOUSER STOCK NO.	Mfg. Type	Value ( $\mu$ F)	Dimensions (In.)					Price Each		
			W	H	T	D	LS	1	10	100
5989-400V.01	DME4S1K	.01	.406	.291	.169	.024	.295	.35	.30	.25
5989-400V.012	DME4S12K	.012	.406	.295	.173	.024	.295	.35	.30	.25
5989-400V.015	DME4S15K	.015	.406	.295	.173	.024	.295	.36	.31	.26
5989-400V.018	DME4S18K	.018	.406	.295	.173	.024	.295	.36	.31	.26
5989-400V.022	DME4S22K	.022	.406	.311	.189	.024	.295	.36	.31	.26
5989-400V.027	DME4S27K	.027	.406	.315	.217	.024	.295	.39	.33	.28
5989-400V.033	DME4S33K	.033	.406	.354	.236	.024	.295	.41	.35	.29
5989-400V.039	DME4S39K	.039	.472	.315	.193	.024	.394	.42	.36	.30
5989-400V.047	DME4S47K	.047	.472	.327	.197	.024	.394	.43	.39	.32
5989-400V.056	DME4S56K	.056	.472	.394	.197	.024	.394	.42	.36	.30
5989-400V.068	DME4S68K	.068	.472	.413	.213	.024	.394	.43	.37	.31
5989-400V.082	DME4S82K	.082	.472	.433	.228	.024	.394	.46	.39	.33
5989-400V.1	DME4P1K	.1	.472	.472	.248	.024	.394	.42	.36	.30
5989-400V.12	DME4P12K	.12	.728	.394	.197	.024	.591	.47	.41	.34
5989-400V.15	DME4P15K	.15	.728	.488	.197	.024	.591	.53	.46	.38
5989-400V.18	DME4P18K	.18	.728	.492	.213	.024	.591	.61	.53	.44
5989-400V.22	DME4P22K	.22	.728	.512	.232	.024	.591	.64	.55	.46
5989-400V.27	DME4P27K	.27	.728	.563	.256	.032	.591	.66	.56	.47
5989-400V.33	DME4P33K	.33	.728	.587	.276	.032	.591	.72	.62	.51
5989-400V.39	DME4P39K	.39	.728	.606	.295	.032	.591	.77	.66	.55
5989-400V.47	DME4P47K	.47	.728	.669	.307	.032	.591	.83	.71	.59
5989-400V.56	DME4P56K	.56	1.024	.63	.256	.032	.886	.90	.77	.65
5989-400V.68	DME4P68K	.68	1.024	.65	.276	.032	.886	1.01	.87	.72
5989-400V.82	DME4P82K	.82	1.024	.681	.311	.032	.886	1.10	.95	.79
5989-400V1.0	DME4W1K	1.0	1.024	.709	.335	.032	.886	1.22	1.04	.87
5989-400V1.2	DME4W1P2K	1.2	1.024	.744	.374	.032	.886	1.69	1.45	1.21
5989-400V1.5	DME4W1P5K	1.5	1.22	.748	.374	.032	1.083	1.84	1.58	1.31
5989-400V1.8	DME4W1P8K	1.8	1.22	.807	.433	.032	1.083	2.19	1.88	1.56
5989-400V2.2	DME4W2P2K	2.2	1.22	.866	.433	.032	1.083	2.77	2.13	1.77

### 630 VDC (250 VAC)

MOUSER STOCK NO.	Mfg. Type	Value ( $\mu$ F)	Dimensions (In.)					Price Each		
			W	H	T	D	LS	1	10	100
5989-630V.01	DME6S1K	.01	.472	.295	.177	.024	.394	.32	.27	.23
5989-630V.012	DME6S12K	.012	.472	.307	.177	.024	.394	.34	.29	.24
5989-630V.015	DME6S15K	.015	.472	.323	.197	.024	.394	.35	.30	.25
5989-630V.018	DME6S18K	.018	.472	.394	.193	.024	.394	.36	.31	.26
5989-630V.022	DME6S22K	.022	.472	.413	.209	.024	.394	.37	.32	.27
5989-630V.027	DME6S27K	.027	.472	.429	.217	.024	.394	.39	.33	.28
5989-630V.033	DME6S33K	.033	.472	.469	.236	.024	.394	.40	.34	.28
5989-630V.039	DME6S39K	.039	.472	.528	.236	.024	.394	.41	.35	.29
5989-630V.047	DME6S47K	.047	.472	.531	.256	.024	.394	.42	.36	.30
5989-630V.056	DME6S56K	.056	.728	.413	.213	.024	.591	.45	.38	.32
5989-630V.068	DME6S68K	.068	.728	.433	.228	.024	.591	.48	.41	.35
5989-630V.082	DME6S82K	.082	.728	.472	.256	.024	.591	.52	.44	.37
5989-630V0.1	DME6P1K	.1	.728	.551	.248	.024	.591	.55	.47	.40
5989-630V.12	DME6P12K	.12	.728	.571	.248	.032	.591	.61	.52	.43
5989-630V.15	DME6P15K	.15	.728	.606	.295	.032	.591	.68	.58</	

## TYPE SM MOTOR-RUN AC CAPACITORS

**Features:**

- For motor-run applications, air-conditioning, electronic power conversion equipment and HID lighting
- Metallized polypropylene film is used to provide the lowest loss self-healing capability and low energy consumption
- Utilizes a fluid which is environmentally compatible and biodegradable. This fluid protects the metallized film from corrosion, aids heat transfer, and suppresses corona which otherwise could cause premature failures.



**Specifications:**

- Temperature range: -40°C to 70°C
- Tolerance: ±10%
- 60,000 hours, 94% min. survival at full rated temperature and voltage
- 2-line .25" x .032" quick-connect lug terminals
- Tin plated steel cans
- Dissipation factor (max.): .10%
- ANSI/EIA Standard: EIA-456A

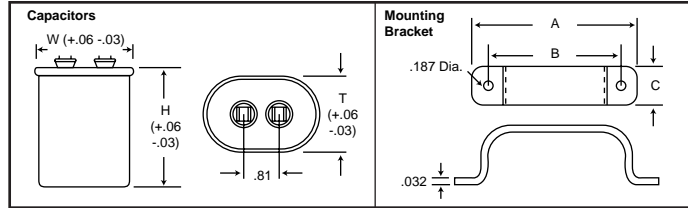


E56959



LR075387  
LR700632

**DIMENSIONS (IN.)**



**Capacitors**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (µF)	Case Style	Case Dimensions (In.)			Price Each			
			W	T	H	1	25	50	100
<b>370VAC</b>									
5987-370V4.0	4.0	KK	2.16	1.31	2.19	6.02	5.27	4.67	4.22
5987-370V5.0	5.0	KK	2.16	1.31	2.19	5.68	4.97	4.41	3.98
5987-370V6.0	6.0	KK	2.16	1.31	2.19	6.32	5.53	4.90	4.43
5987-370V7.5	7.5	KK	2.16	1.31	2.19	6.16	5.39	4.78	4.32
5987-370V10	10	KK	2.16	1.31	2.69	7.48	6.55	5.80	5.24
5987-370V20	20	KT	2.91	1.91	2.69	14.24	12.46	11.04	9.97
5987-370V35	35	KT	2.91	1.91	3.13	16.14	14.13	12.51	11.30
5987-370V40	40	KT	2.91	1.91	3.88	20.72	18.13	16.06	14.51
<b>660VAC</b>									
5987-660V2.0	2.0	KK	2.16	1.31	2.19	6.48	5.67	5.03	4.54
5987-660V5.0	5.0	KK	2.16	1.31	3.13	11.20	9.80	8.68	7.84
5987-660V6.0	6.0	KK	2.16	1.31	3.88	9.38	8.21	7.27	6.56
5987-660V10	10	KT	2.91	1.91	3.13	12.76	11.17	9.89	8.94
5987-660V12	12	KT	2.91	1.91	3.13	13.76	12.04	10.67	9.64
5987-660V30	30	KB	3.61	1.97	3.88	26.64	23.31	20.65	18.65

**Mounting Brackets (sold separately)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dimensions (In.)			Fits Case Style	Price Each			
	A	B	C		1	10	100	500
5987-KK5	3.046	2.546	.75	KK	.52	.46	.41	.37
5987-KT9	3.812	3.312	.75	KT	.60	.53	.47	.42
5987-KB10	4.562	4.062	.75	KB	.52	.46	.41	.37

## METALLIZED POLYPROPYLENE RADIAL SNUBBERS

Type DPPM radial-leaded, metallized polypropylene capacitors utilize series wound extended foil with floating metallized common foil construction. Type DPPM offers excellent high frequency and high current capabilities and self-healing characteristics. With low inductance and high dV/dt characteristics, DPPM is ideal for snubber applications.

**1000 VDC (450 VAC)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfg. Type DPPM	Value (µF)	Dimensions (In.)				Price Each			
			W	H	T	LS	1	10	100	1000
5989-1KV.001	10D1K	.001	.984	.452	.256	.826	.83	.71	.59	.356
5989-1KV.0015	10D15K	.0015	.984	.452	.256	.826	.83	.71	.59	.356
5989-1KV.0022	10D22K	.0022	.984	.452	.256	.826	.83	.71	.59	.356
5989-1KV.0033	10D33K	.0033	.984	.492	.275	.826	.88	.76	.63	.378
5989-1KV.0047	10D47K	.0047	.984	.531	.295	.826	.88	.76	.63	.378
5989-1KV.0068	10D68K	.0068	.984	.570	.334	.826	.91	.78	.65	.389
5989-1KV.01	10S1K	.01	.984	.649	.374	.826	.93	.80	.66	.398
5989-1KV.015	10S15K	.015	1.220	.669	.374	1.043	.98	.84	.70	.420
5989-1KV.022	10S22K	.022	1.220	.728	.433	1.043	1.44	1.23	1.03	.615
5989-1KV.033	10S33K	.033	1.220	.807	.511	1.043	1.72	1.47	1.23	.735
5989-1KV.047	10S47K	.047	1.220	.885	.590	1.043	2.16	1.85	1.54	.924

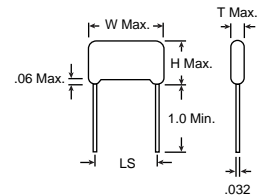
**1200 VDC (475 VAC)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfg. Type DPPM	Value (µF)	Dimensions (In.)				Price Each			
			W	H	T	LS	1	10	100	1000
5989-1.2KV.001	12D1K	.001	.984	.452	.256	.826	.87	.75	.62	.372
5989-1.2KV.0015	12D15K	.0015	.984	.452	.256	.826	.87	.75	.62	.372
5989-1.2KV.0022	12D22K	.0022	.984	.492	.275	.826	.87	.75	.62	.372
5989-1.2KV.0033	12D33K	.0033	.984	.511	.295	.826	.95	.82	.68	.408
5989-1.2KV.0047	12D47K	.0047	.984	.551	.314	.826	.95	.82	.68	.408
5989-1.2KV.0068	12D68K	.0068	1.220	.590	.314	1.043	.99	.85	.71	.423
5989-1.2KV.01	12S1K	.01	1.220	.629	.354	1.043	1.07	.92	.77	.459
5989-1.2KV.015	12S15K	.015	1.220	.708	.413	1.043	1.41	1.21	1.01	.606
5989-1.2KV.022	12S22K	.022	1.220	.787	.472	1.043	1.68	1.44	1.20	.719
5989-1.2KV.033	12S33K	.033	1.220	.866	.551	1.043	2.11	1.81	1.51	.905

**Specifications:**

- Voltage range: 1000-2000VDC (450-500VAC)
- Capacitance range: .001-.047µF
- Capacitance tolerance: ±10%
- Operating temperature range: -40°C to 105°C full-rated voltage
- @ 85°C - derate linearly to 50% - rated voltage @ 105°C
- Dielectric strength: 175%
- Dissipation Factor: .10% (max.)
- Insulation resistance: 400,000MΩ (min.)
- Life test: 500 hours at 85°C @ 150% rated voltage



**DIMENSIONS (IN.)**

**1600 VDC (500 VAC)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfg. Type DPPM	Value (µF)	Dimensions (In.)				Price Each			
			W	H	T	LS	1	10	100	1000
5989-1.6KV.001	16D1K	.001	.984	.452	.256	.826	.89	.77	.64	.383
5989-1.6KV.0015	16D15K	.0015	.984	.492	.275	.826	.89	.77	.64	.383
5989-1.6KV.0022	16D22K	.0022	.984	.590	.314	.826	.89	.77	.64	.383
5989-1.6KV.0033	16D33K	.0033	.984	.649	.374	.826	1.00	.86	.71	.428
5989-1.6KV.0047	16D47K	.0047	.984	.748	.413	.826	1.11	.95	.79	.474
5989-1.6KV.0068	16D68K	.0068	1.220	.748	.413	1.043	1.27	1.09	.91	.546
5989-1.6KV.01	16S1K	.01	1.220	.866	.472	1.043	1.35	1.16	.97	.579
5989-1.6KV.015	16S15K	.015	1.220	.964	.590	1.043	1.72	1.47	1.23	.737
5989-1.6KV.022	16S22K	.022	1.220	1.082	.708	1.043	2.10	1.80	1.50	.899

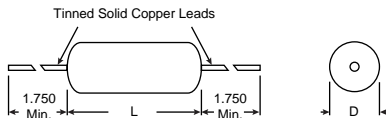
**2000 VDC (500 VAC)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfg. Type DPPM	Value (µF)	Dimensions (In.)				Price Each			
			W	H	T	LS	1	10	100	1000
5989-2KV.001	20D1K	.001	.984	.492	.275	.826	.96	.82	.69	.411
5989-2KV.0015	20D15K	.0015	.984	.551	.314	.826	.96	.82	.69	.411
5989-2KV.0022	20D22K	.0022	.984	.629	.354	.826	.96	.82	.69	.411
5989-2KV.0033	20D33K	.0033	.984	.688	.413	.826	1.14	.98	.82	.489
5989-2KV.0047	20D47K	.0047	1.220	.748	.393	1.043	1.26	1.08	.90	.539
5989-2KV.0068	20D68K	.0068	1.220	.807	.472	1.043	1.42	1.22	1.02	.609
5989-2KV.01	20S1K	.01	1.220	.866	.551	1.043	1.64	1.40	1.17	.702
5989-2KV.015	20S15K	.015	1.220	.964	.629	1.043	2.07	1.77	1.48	.885

## METALLIZED POLYPROPYLENE 935 SERIES

Designed for 20 - 100K Hz switching power supply input filtering, DC blocking and output filter applications where high current, high capacitance, and low ESR values are important. Dry sections are sealed with flame-retardant outer wrap and epoxy end seals for moisture resistance. This non-protected film capacitor has Underwriters Laboratories, Inc., recognition for construction only. U.L. File Number assigned is E128034(N)



**DIMENSIONS (IN.)**

**100 Volt (70 VAC)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type 935	Value (µF)	Dimensions (In.) Max.			Price Each			
			D	Tol. ±	L	1	25	50	100
5984-100V1	C1W1K	1	0.469	.062	0.750	8.39	6.99	5.60	4.20
5984-100V2	C1W2K	2	0.534	.062	0.938	8.85	7.37	5.90	4.43
5984-100V3	C1W3K	3	0.624	.093	0.938	9.38	7.82	6.25	4.69
5984-100V5	C1W5K	5	0.640	.093	1.250	9.87	8.23	6.58	4.94
5984-100V10	C1W10K	10	0.805	.093	1.500	21.38	17.82	14.25	10.69
5984-100V20	C1W20K	20	0.875	.125	2.250	22.97	19.14	15.32	11.49
5984-100V30	C1W30K	30	1.075	.125	2.250	34.35	28.63	22.90	17.18

**Specifications:**

- Tolerance: ±10%
- Temperature range: -55°C to 105°C
- Voltage range: 100, 200, and 400 VDC
- Maximum DF (1K Hz, +25°C): 0.1%
- Capacitance range: 1-30µF
- Dielectric strength: 200%
- Insulation resistance: 200,000MΩ x µF
- Life test: 1,000 hrs. at 85°C at 150% rated voltage

**200 Volt (140 VAC)**

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type 935	Value (µF)	Dimensions (In.) Max.			Price Each			
			D	Tol. ±	L	1	25	50	100
5984-200V1	C2W1K	1	0.450	.062	1.250	6.14	5.12	4.10	3.07
5984-200V2	C2W2K	2	0.605	.093	1.250	7.57	6.31	5.05	3.79
5984-200V3	C2W3K	3	0.654	.093	1.500	8.28	6.90	5.52	4.14
5984-200V5	C2W5K	5	0.769	.093	1.750	9.66	8.05	6.44	4.83
5984-200V10	C2W10K	10	0.905	.125	2.250	15.08	12.57	10.05	7.54
5984-200V20	C2W20K	20	1.315	.125	2.250	29.12	24.27	19.42	14.56

**400 Volt (275 VAC)**

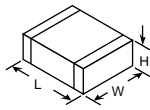
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type 935	Value (µF)	Dimensions (In.) Max.			Price Each			
			D	Tol. ±	L	1	25	50	100
5984-400V1	C4W1K	1	0.620	.093	1.500	8.50	7.09	5.67	4.25
5984-400V2	C4W2K	2	0.802	.093	1.750	9.60	8.00	6.40	4.80
5984-400V3	C4W3K	3	0.961	.125	1.750	12.34	10.28	8.23	6.17
5984-400V5	C4W5K	5	1.067	.125	2.250	15.08	12.57	10.05	7.54
5984-400V10	C4W10K	10	1.543	.125	2.250	19.74	16.45	13.16	9.87

# CDE CORNELL DUBILIER MC Surface-Mount Chip and Dipped Mica Capacitors

## TYPE MC MICA SURFACE-MOUNT CHIP CAPACITORS

- Specifications:**
- Temperature range: -55°C to +125°C
  - Q factor: <math>3pf = 2000</math> (min.)  
3.5 to 10pf = 4000 (min.)  
10.5 to 20pf = 5000 (min.)  
20.5pf and up = 6000 (min.)
  - Insulation resistance: 100GΩ min.



- Features:**
- Low impedance to beyond 1GHz
  - Near-zero capacitance change in all environments
  - Withstands 200% rated voltage
  - Applications: CATV, flight radio, precision timing, RF & microwave, resonators, and stripline termination

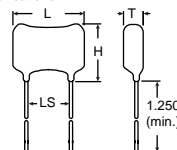
MOUSER STOCK NO.	Mfr's Type MC	Value (pF)	Tol.	Temp. Coeff. ppm/°C	Case Size (In.)			Price Each		
					L	W	H	1	100	500
<b>100WVDC</b>										
5982-08-100V1.0	08CA010D	1	±.5pf	100	.079	.049	.05	1.31	.76	.51
5982-08-100V5.0	08CA050D	5	±.5pf	100	.079	.049	.05	1.31	.76	.51
5982-08-100V10	08CA100D	10	±.5pf	100	.079	.049	.05	1.31	.76	.51
5982-08-100V15	08CA150J	15	±5%	50	.079	.049	.05	1.31	.76	.51
5982-12-100V100	12FA101J	100	±5%	25	.126	.098	.059	1.60	.95	.62
5982-12-100V220	12FA221J	220	±5%	25	.126	.098	.059	1.77	1.05	.68
<b>500 WVDC</b>										
5982-12-500V5.0	12CD050D	5	±.5pf	100	.126	.098	.059	1.60	.95	.62
5982-12-500V10	12CD100D	10	±.5pf	100	.126	.098	.059	1.60	.95	.62
5982-12-500V47	12FD470J	47	±5%	25	.126	.098	.059	1.66	.98	.63
5982-12-500V100	18FD101J	100	±5%	25	.177	.126	.079	1.96	1.17	.77
5982-18-500V220	18FD221J	220	±5%	25	.177	.126	.079	2.19	1.30	.86
5982-18-500V330	18FD331J	330	±5%	25	.177	.126	.079	2.50	1.48	.96
5982-18-500V470	18FD471J	470	±5%	25	.177	.126	.079	2.78	1.65	1.05
5982-22-500V1000	22FD102J	1000	±5%	25	.224	.197	.079	4.26	2.53	1.81

## DIPPED MICA CAPACITORS

Features an exclusive CDE dipping process to impart high moisture and humidity resistance. Available in a wide range of sizes and ratings to meet application requirements. Conforms to EIA specifications.

- Specifications:**
- Tolerance: D=5pF, J=5%
  - Temperature range: -55°C to +125°C
  - Voltage range: 500, 300, 100, and 1000 WVDC
  - Vibration test: 10-2000 Hz

DIMENSIONS (IN.)



Lead Spacing (In.)						
CD5	CD10	CD15	CD19	CD30	CDV19	CDV30
.120	.141	.234	.344	.438	.344	.438

## Dipped Mica Dielectric Capacitors

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type	Value (pF)	WVDC	Dimensions (In.) Max.			Price Each		
				L	H	T	1	25	100
<b>Manufacturers Type CD5 Series</b>									
5982-5-300V1	CC010D03	1	300	.270	.190	.110	.80	.53	.44
5982-5-300V2	CC020D03	2	300	.270	.190	.110	.80	.53	.44
5982-5-300V3	CC030D03	3	300	.270	.190	.110	.80	.53	.44
5982-5-300V5	CC050D03	5	300	.270	.190	.110	.80	.53	.44
5982-5-300V10	CC100D03	10	300	.270	.190	.110	.56	.38	.31
5982-5-300V15	CC150J03	15	300	.270	.190	.120	.59	.40	.33
5982-5-300V20	EC200J03	20	300	.270	.200	.120	.60	.42	.33
5982-5-300V30	EC300J03	30	300	.270	.200	.130	.68	.45	.37
5982-5-300V33	EC330J03	33	300	.270	.200	.130	.70	.46	.39
5982-5-300V47	EC470J03	47	300	.270	.210	.140	.78	.52	.43
5982-5-300V100	FC101J03	100	300	.270	.240	.180	1.15	.77	.64
5982-5-100V150	FA151J03	150	100	.270	.230	.170	1.29	.86	.72
<b>Manufacturers Type CD15 Series</b>									
5982-10-500V5	CD050C03	5	500	.360	.330	.190	.79	.52	.43
5982-10-500V10	CD100D03	10	500	.360	.330	.190	.79	.52	.43
5982-10-500V12	CD120J03	12	500	.360	.330	.190	.79	.52	.43
5982-10-500V15	CD150J03	15	500	.360	.330	.190	.79	.52	.43
5982-10-500V18	CD180J03	18	500	.360	.330	.190	.64	.42	.35
5982-10-500V22	ED220J03	22	500	.360	.330	.190	.60	.40	.33
5982-10-500V24	ED240J03	24	500	.360	.330	.190	.60	.40	.33
5982-10-500V27	ED270J03	27	500	.370	.330	.190	.48	.32	.26
5982-10-500V30	ED300J03	30	500	.370	.340	.190	.60	.40	.33
5982-10-500V33	ED330J03	33	500	.370	.340	.190	.60	.40	.33
5982-10-500V39	ED390J03	39	500	.370	.340	.190	.68	.45	.38
5982-10-500V47	ED470J03	47	500	.370	.340	.190	.71	.47	.39
5982-10-500V56	ED560J03	56	500	.370	.340	.190	.71	.47	.39
5982-10-500V100	FD101J03	100	500	.370	.350	.200	.73	.49	.40
5982-10-500V150	FD151J03	150	500	.380	.360	.210	.76	.50	.42
5982-10-500V220	FD221J03	220	500	.390	.380	.220	1.03	.68	.57
5982-10-300V300	FC301J03	300	300	.390	.380	.220	1.13	.75	.63
5982-10-500V300	D105F301J03	300	500	.390	.380	.220	1.13	.75	.63
5982-10-500V330	D105F331J03	330	500	.390	.380	.220	1.12	.75	.62

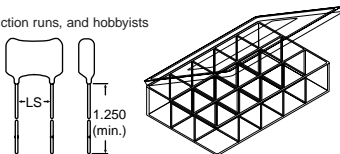
MOUSER STOCK NO.	Mfr's Type	Value (pF)	WVDC	Dimensions (In.) Max.			Price Each		
				L	H	T	1	25	100
<b>Manufacturers Type CD30 Series</b>									
5982-15-500V2	CD020D03	2	500	.450	.360	.170	.50	.34	.28
5982-15-500V3	CD030D03	3	500	.450	.360	.170	.50	.34	.28
5982-15-500V5	CD050D03	5	500	.450	.360	.170	.50	.34	.28
5982-15-500V10	CD100D03	10	500	.450	.360	.170	.50	.34	.28
5982-15-500V15	CD150J03	15	500	.450	.360	.170	.48	.32	.27
5982-15-500V20	ED200J03	20	500	.450	.360	.170	.48	.32	.27
5982-15-500V22	ED220J03	22	500	.450	.360	.170	.50	.33	.28
5982-15-500V27	ED270J03	27	500	.450	.360	.170	.50	.33	.28
5982-15-500V30	ED300J03	30	500	.450	.360	.170	.50	.33	.28
5982-15-500V33	ED330J03	33	500	.450	.360	.170	.50	.33	.28
5982-15-500V47	ED470J03	47	500	.450	.360	.170	.49	.33	.27
5982-15-500V50	ED500J03	50	500	.450	.360	.170	.42	.28	.23
5982-15-500V56	ED560J03	56	500	.450	.360	.170	.42	.28	.23
5982-15-500V68	ED680J03	68	500	.450	.360	.180	.51	.34	.28
5982-15-500V75	ED750J03	75	500	.450	.360	.180	.43	.28	.23
5982-15-500V82	ED820J03	82	500	.450	.360	.180	.43	.28	.23

MOUSER STOCK NO.	Mfr's Type	Value (pF)	WVDC	Dimensions (In.) Max.			Price Each		
				L	H	T	1	25	100
<b>Manufacturers Type CD19 Series</b>									
5982-19-1KV330	FF331J03	330	1000	.650	.510	.200	1.30	.87	.72
5982-19-1KV470	FF471J03	470	1000	.650	.510	.200	1.53	1.02	.85
5982-19-1KV680	FF681J03	680	1000	.660	.520	.220	1.69	1.12	.93
5982-19-1KV1000	FF102J03	1000	1000	.670	.530	.250	1.88	1.25	1.04
5982-19-1KV1500	FF152J03	1500	1000	.680	.540	.270	1.95	1.30	1.08
5982-19-1KV2200	FF222J03	2200	1000	.690	.560	.310	2.34	1.56	1.29
5982-19-1KV3300	FF332J03	3300	1000	.720	.590	.380	4.83	3.22	2.67
5982-19-1KV4700	FF472J03	4700	1000	.760	.630	.460	7.92	5.28	4.38
<b>Manufacturers Type CDV30 Series</b>									
5982-30-1KV6800	FF682J03	6800	1000	.830	.620	.420	13.50	9.00	7.47
5982-30-1KV8200	FF822J03	8200	1000	.840	.930	.460	18.37	12.25	10.16
5982-30-1KV10000	FF103J03	10000	1000	.820	.910	.420	21.66	14.44	11.99

## DIPPED MICA KIT

- Specifications:**
- Designed for engineers, prototype and repair benches, school labs, short production runs, and hobbyists
  - No guesswork. Our kits spell out exactly what you get
  - Production quantities of all listed components are in stock. Call for quote.
  - Fully assembled and keyed for easy use
  - Tolerance: J=5%
  - Temperature range: -55°C to +125°C
  - Voltage range: 300, 500, WVDC
  - Vibration test: 10-2000Hz
  - 24 values: 1-2000pF • 120 pieces

Lead Spacing (In.)			
CD5	CD10	CD15	CD19
.120	.141	.234	.344

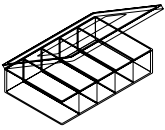


## Dipped Mica Dielectric Capacitors (cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr's Type	Value (pF)	WVDC	Dimensions (In.) Max.			Price Each		
				L	H	T	1	25	100
<b>Manufacturers Type CD15 Series (cont.)</b>									
5982-15-500V100	FD101J03	100	500	.460	.360	.180	.51	.34	.28
5982-15-500V120	FD121J03	120	500	.460	.370	.180	.56	.37	.31
5982-15-500V150	FD151J03	150	500	.460	.370	.190	.59	.40	.33
5982-15-500V180	FD181J03	180	500	.460	.370	.190	.68	.45	.38
5982-15-500V200	FD201J03	200	500	.460	.380	.190	.68	.45	.38
5982-15-500V220	FD221J03	220	500	.460	.380	.200	.71	.47	.39
5982-15-500V250	FD251J03	250	500	.470	.390	.210	.63	.42	.35
5982-15-500V270	FD271J03	270	500	.470	.390	.210	.82	.55	.45
5982-15-500V330	FD331J03	330	500	.470	.390	.210	.96	.64	.53
5982-15-500V360	FD361J03	360	500	.470	.390	.210	1.04	.69	.57
5982-15-500V390	FD391J03	390	500	.470	.390	.210	1.04	.69	.57
5982-15-500V430	FD431J03	430	500	.470	.390	.210	1.15	.76	.64
5982-15-500V470	FD471J03	470	500	.470					

# Prototype Kits

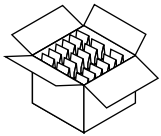


- Designed for engineers, prototype and repair benches, school labs, short production runs, and hobbyists.
- No guesswork. Our kits spell out exactly what you get.
- Production quantities of all listed components are in stock. Call for Quote.
- Compare kits on this page with anyone else's and you will see why quality, price, selection, and convenience are reasons to purchase component kits from Mouser.

## Capacitor Kits

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-540-1	Tantalum, ±10%, 6.3-35 volt, radial	.1-100µF	120	<b>10 each:</b> .1, .15, .22, .33, .47, .68 (35WVDC), <b>5 each:</b> 1.0 (35WVDC), 2.2, 4.7, 10, (25WVDC), 3.3, 4.7, 6.8, 22, (16WVDC), 33, (10WVDC), 15, 47, 100 (6.3WVDC)	49.95
370-140PFK-1	Polyester, ±10%, 100 volt, radial	.001-.47µF	175	<b>10 each:</b> .001, .0015, .002, .0022, .0033, .005, .01, .015, .02, .022, .033, .047, .05, .068, .1, .15, .22, <b>5 each:</b> .47	23.95
370-140PFF-1	Polyester, ±2%, 100 volt, radial	.001-.1µF	120	<b>10 each:</b> .001, .0015, .0022, .0033, .0047, .01, .015, .022, .033, .047, .068, .1	49.95
370-GP50-1	Ceramic disc, 50 volt, radial	5pF-.1µF	360	<b>20 each:</b> 5, 10, 22, 33, 47, 68, 100, 220, 270, 330, 470, 500pF, .001, .002, .005, .01, .05, .1	29.95
370-GP500-1	Ceramic disc, 500 volt radial	5pF-.02µF	360	<b>20 each:</b> 5, 10, 22, 33, 47, 68, 82, 100, 220, 270, 330, 470, 500pF, .001, .002, .005, .01, .02	29.95
370-208-25	Miniature electrolytic radial	1-1,000µF	85	<b>10 each:</b> 1, 2.2, 3.3, 4.7, 10 (50WVDC), <b>5 each:</b> 22 (50WVDC), 33, 47 (35WVDC), 100, 220, 470, 1000 (25WVDC)	33.95
370-PS-1	Polystyrene film, ±5%, 50WVDC	100-820pF	120	<b>10 each:</b> 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820 (axial leads)	24.95
370-PS-2	Polystyrene film, ±5%, 50WVDC	.001-.01µF	120	<b>10 each:</b> .001, .0012, .0015, .0018, .002, .0022, .0027, .0033, .0039, .005, .0068, .01 (axial leads)	24.95
370-140XAL-1	Miniature electrolytic axial	.47-1000µF	80	<b>10 each:</b> .47, 1.0 (50V), <b>5 each:</b> 2.2, 3.3, 4.7, 10, 20, 220, (50V), 33, 470, (35VDC), 47, 100, 330, 1000, (25VDC)	29.95
370-140XAL-2	Miniature electrolytic axial	220-4700µF	25	<b>5 each:</b> 220 (50VDC), 330 (25VDC), <b>3 each:</b> 470 (35VDC), 1000 (25VDC), 1000 (50VDC)	29.95
370-140XRL-1	Miniature electrolytic radial	1-1000µF	80	<b>10 each:</b> 1, 2.2, 4.7, 22 (50V), <b>10 each:</b> 10, 47 (35V) <b>5 each:</b> 100, 470, 1000 (50V), 220 (35V)	29.95
370-140MLR-1	Micro-miniature Electrolytic radial	.1-220µF	150	<b>10 each:</b> .1, .22, .33, .47, 1.0, 2.2, 3.3, 4.7, 10 (50V), 4.7, 22 (35V), 33 (25V), 47, 100 (16V), 220 (10V)	49.95
370-5982-1	Dipped Mica, ±5%	1-2000pF	120	<b>5 each:</b> 1, 2, 3 (300V), <b>5 each:</b> 5, 10, 22, 33, 39, 47, 56, 75, 100, 220, 270, 330, 390, 470, 560, 680, 820, 1000, 1200, 1500, 2000, (500V)	86.25
5987-KIT3	SMT Polymer Alum., Low ESR	4.7-33µF	36	<b>6 each:</b> 33, 47, (6.3V), <b>6 each:</b> 22, (8V), <b>6 each:</b> 10, (12.5V), <b>6 each:</b> 4.7, 6.8, (16V)	66.80

## "C-PAC" ASSORTMENT



## Capacitor Kits

"C-PAC" kits are the same as above but are packaged with 100 or 200 of each value.

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-140PFK-C1	100V±10% polyester	.001-.005µF	600	<b>100 each:</b> .001, .0015, .002, .0022, .0033, .005	28.95
370-140PFK-C2	100V±10% polyester	.01-.047µF	600	<b>100 each:</b> .01, .015, .02, .022, .033, .047	36.95
370-140PFK-C3	100V±10% polyester	.05-.047µF	600	<b>100 each:</b> .05, .068, .1, .15, .22, .47	89.95
370-140PFK-C	100V±10% polyester	.001-.047µF	1800	<b>100 each:</b> All values listed above	134.95
370-GP50-C	50V ceramic disc	5pF-.1µF	3600	<b>200 each:</b> All values listed above in 370-GP50-1	89.95

## Component Kits

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-159-1	Solderless connectors	----	180	18 types of connectors and disconnects, insulated	14.95
370-159-2	Solderless connectors	----	180	18 types of connects and disconnects, non-insulated	14.95
370-333-1N1	Diode/rectifiers (1 amp)	50-1000PRV	140	<b>20 each:</b> 1N4001, 1N4002, 1N4003, 1N4004, 1N4005, 1N4006, 1N4007	29.95
370-LED-2	Light emitting diodes	----	180	18 types T1, T 1 3/4, rectangle and square, clear and diffused lenses	33.95
370-333Z-1	Zener diodes (500mW)	5.6-24 Volt	100	<b>5 each:</b> of 20 values 5.6 to 24 volts, ±5%	33.95
370-332-1	Microprocessor crystals	23 types	46	<b>2 each:</b> 3.2768, 3.579545, 3.93216, 4.0, 4.096, 4.194304, 4.433, 4.9152, 5.0, 5.0688, 6.0, 6.144, 6.5536, 8.0, 10.0, 12.0, 12.069, 14.31818, 16.0, 18.0, 18.432, 19.2, 20.0MHz	89.95
370-44FM-1	Metric fuse kit	.5-10 amp	60	<b>10 each:</b> .5, 1, 2, 3, 5 and 10 amp	12.95
370-44FP-1	Standard fast acting fuses	1/4-5 amp	180	<b>30 each:</b> .25, .50, 1.0, 2.0, 3.0, 5.0 amp 250 volt	23.95
370-20V-1	Metal oxide varistor kit	48-510V	205	<b>3 each:</b> VZA series: 48, 130, 150; VZC series: 130, 150; <b>2 each:</b> VZC series: 250; VZD series: 130, 150, 275, 510	32.95
370-NTC-T2	NTC thermistors	100Ω to 50KΩ	60	<b>5 each:</b> 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 15K, 20K, 50K @ 25°C	29.95
370-RFC-1	RF choke (43LR series)	.22-1000µH	180	<b>10 each:</b> .22, .47, 1.0, 2.2, 3.3, 4.7, 10, 15, 22, 33, 47, 68, 100, 220, 330, 470, 680, 1000µH	49.95
370-EMCC	Epoxy miniature choke coils	.15µH to 1000µH	240	<b>10 each:</b> .15, .22, .33, .47, .68, 1.0, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 15, 22, 33, 47, 68, 100, 150, 220, 330, 470, 680, 1000µH	89.95
370-ESCC	Epoxy small choke coils	.33 to 1000µH	240	<b>10 each:</b> .33, .47, .68, 1.0, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 12, 15, 18, 22, 27, 33, 47, 100, 150, 220, 330, 470, 680, and 1000µH	89.95
370-TPV-1	Trim pots 6, 8, 10mm vertical	1KΩ to 500KΩ	180	<b>10 each:</b> 321-2100 series 6mm: 1K, 5K, 10K, 50K, 100K, 500K, (.05W) .32RM series 8mm: 1K, 5K, 10K, 100K, 500K, (.1W) 32RW series 10mm: 1K, 5K, 10K, 50K, 100K, 500K, (.1W)	69.95
370-PT10	Trim pots 10mm, vert. & horiz.	500 to 500KΩ	180	<b>10 each:</b> 500, 1K, 5K, 10K, 25K, 50K, 100K, 250K, and 500K in both horizontal and vertical mount	69.95
370-TPH-1	Trim pots 6, 8, 10mm horizontal	1KΩ to 500KΩ	180	<b>10 each:</b> 321-2000 series 6mm: 1K, 5K, 10K, 50K, 100K, 500K, (.05W) 32RH series 8mm: 1K, 5K, 10K, 50K, 100K, 500K (.1W) 32R series 10mm: 1K, 5K, 10K, 50K, 100K, 500K, (.1W)	69.95
370-LIN-1	Linear IC kit	----	76	<b>5 each:</b> LM311, LM324, LM339, LF353, LM358, LM393, NE555, NE556, MC1488, MC1489, ULN2003A	69.95
370-TRA-1	Transistors	----	180	<b>3 each:</b> LF347, LF356, LM741, LM1458, CA3130, CA3140, CA3059	39.95
370-511-1	Transistors, power, TO-220	----	90	<b>10 each:</b> 2N2222A, 2N2369A, 2N2907, 2N3707, 2N3904, 2N3906, 2N4124, 2N4401, 2N4403, 2N6426, MPSA13, MPSA29, MPSA42, MPSA56, MPSA63, MPSA92, BC337, and BC547	89.99
370-SMD-1	Surface mount diode rectifiers	1amp, 50-800PRV	60	<b>5 each:</b> MJE3055T, MJE1300S, MJE1300T, TIP29, TIP29C, TIP30, TIP31C, TIP32, TIP32C, TIP41C, TIP42, TIP42C, TIP48, TIP120, TIP121, TIP122, TIP125, and TIP131	29.95
370-331-1	1 amp DIP silicon bridge rectifiers	50-800PRV	30	<b>5 each:</b> 1N4001, 1N4002, 1N4003, 1N4004, 1N4005, 1N4006	29.95
370-VRG-1	Voltage regulator IC kit	5V-18V, variable	72	<b>4 each:</b> 7805, 7805A, 78M05, 78S05, 7905, 7808, 7908, 7812, 7812A, 78S12, 7912, 7815, 7915A, 7818, 7918, LM317T, LM337, LM723	59.95
370-331-2	200 PRV silicon bridge rectifiers	1-15 amp	80	<b>10 each:</b> 1, 1.5, 2, 3, 4, 6, 10, 15 (200PRV)	159.95
370-526-1	Semiconductor	----	155	NTE replacements, 25 different types (replaces 63,703 devices)	249.95
370-526-2	Semiconductor	----	125	NTE replacements, 25 different types (replaces 20,251 devices)	219.50
370-164-1	Binding post kit	----	40	<b>10 each:</b> Red and black; <b>5 each:</b> Blue, green, white, and yellow	49.95
561-M1991	Transistor hardware, nylon	----	180	Assortment: 17 styles and configurations	28.33
561-M1992	Spacers/standoffs, nylon	----	340	Assortment: 40 sizes and types	46.66
561-M1993	Shoulder washers, nylon	----	300	Assortment: 30 sizes and types	28.33
561-M1994	PCB posts, nylon	----	700	Assortment: 10 sizes and types	46.66
561-M1995	Cable clips, nylon	----	140	Assortment: 15 sizes and types	28.33
561-M1996	Cable clamps, nylon	----	290	Assortment: 18 sizes	46.66
561-M1997	Flat washers, nylon	----	500	Assortment: over 40 sizes	28.33
561-M1998	Screws & nuts, nylon	----	750	Assortment: over 40 sizes	46.66
561-M1999	Strain relief	----	108	<b>9 each:</b> of the 12 most popular series	28.33
524-11-528	Metric hardware kit	2-4mm	108	2.0, 2.6, 3.0, and 4mm hardware	44.24
383-1425	Color coded wire jumper kit	#22 AWG	560	25 pieces of 14 lengths #22 AWG solid	12.58
538-KK-100	Modular interconnection kit	.100"	---	Designer/service kit for .100" center, K.K. series modular connectors	39.95
538-KK-156	Modular interconnection kit	.156"	---	Designer/service kit for .156" center, K.K. series modular connectors	39.95