SGS-THOMSON MICROELECTRONICS

GENERAL PURPOSE MICROWAVE TRANSISTORS

This popular line of Class C discrete devices are characterized for common base amplifier applications in the UHF to S-Band frequency range. These devices are available in a variety of hermetic package style and are often used as drivers in conjunction with higher power matched devices in multi-stage amplifier lineups.

1000-4000 MHz CLASS C, COMMON BASE, GENERAL PURPOSE

PART NUMBER	FREQ. (GHz)	P_{OUT} MIN. (W)	P_{IN} (W)	GAIN MIN. (dB)	η_C MIN. (%)	V_{CC} (V)	C_{OB} MAX. (pF)	$R_{TH(j-c)}$ MAX. (°C/W)	PACKAGE STYLE
MSC81002	1.0	2.0	0.20	10.0	50	28	3.2	20	S016
MSC81118	1.0	2.0	0.2	10.0	50	28	3.2	20	S010
MSC81005	1.0	5.0	0.5	10.0	50	28	6.5	8.0	S016
MSC81090	1.0	2.9	0.2	10.0	50	28	3.2	20	S027
MSC81111	1.0	5.0	0.5	10.0	50	28	6.5	8.0	S010
MSC81010	1.0	10	1.0	10.0	60	28	10	6.0	S016
MSC81058	1.0	10	1.0	10.0	60	28	10	6.0	S010
MSC81020	1.0	20	2.0	10.0	55	28	19	5.0	S010
MSC81402	1.4	2.0	0.2	10.0	50	28	3.2	25	S010
MSC81406	1.4	6.0	0.65	9.7	45	28	6.0	10	S010
MSC82001	2.0	1.0	0.20	7.0	35	28	3.2	20	S010
MSC82003	2.0	3.0	0.50	7.8	35	28	9.5	8.0	S010
MSC82005	2.0	5.0	1.0	7.0	35	28	3.2	6.0	S010
MSC82010	2.0	10	3.16	5.0	35	28	6.5	5.0	S010
MSC82302	2.3	1.8	0.18	10.0	40	22	3.5	25	S010
MSC82304	2.3	3.8	0.38	10.0	40	22	5.0	13	S010
MSC82306	2.3	5.5	0.6	9.6	40	22	7.0	9.0	S010
MSC82307	2.3	7.0	0.76	9.6	40	22	8.5	7.0	S010
MSC83301	3.0	1.0	0.20	7.0	33	28	3.5	25	S010
MSC83303	3.0	2.5	0.79	5.0	30	28	5.0	15	S010
MSC83305	3.0	4.5	1.59	4.5	30	28	7.5	8.5	S010