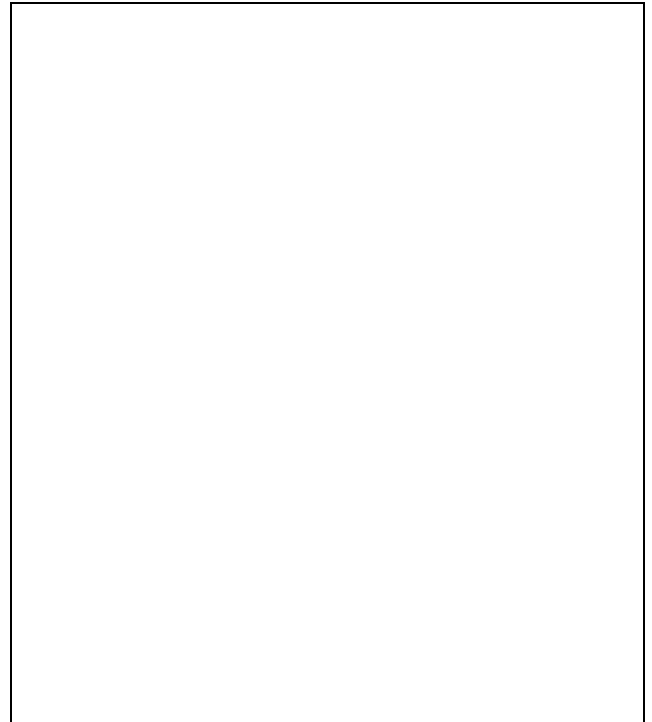


features

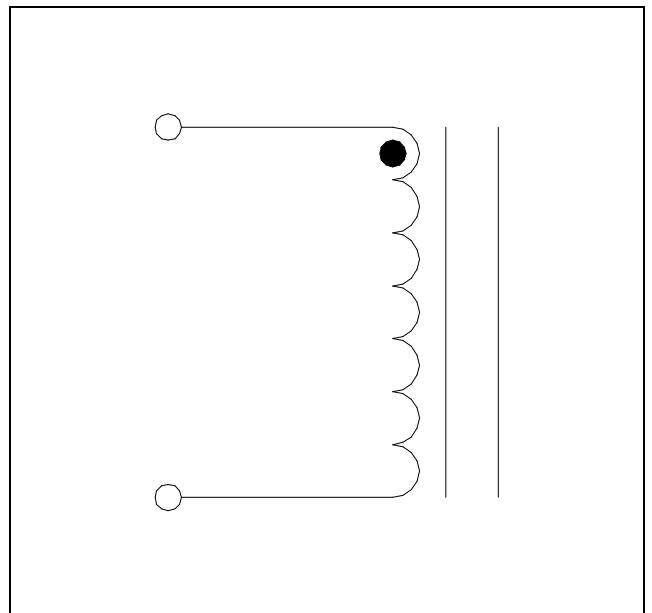
- Toroidal Format
- Minimal EMI
- Upto 7.5A I_{DC}
- 1 μ H to 1mH
- Low DC Resistance
- Available Mounted
- Custom Parts Available



description

The 1900 series of inductors is intended for all applications where EMI is a prime consideration, they are designed for BS800 interference compliance. The unmounted devices may be secured by a cable tie. Common applications include switching power supplies and power line filtering.

schematic



absolute maximum ratings over operating free air temperature range

Operating free air temperature range	0°C to 70°C
Storage temperature range	-55°C to 125°C

1900 SERIES

High Current Toroidal Inductors

electrical characteristics over operating free air temperature range

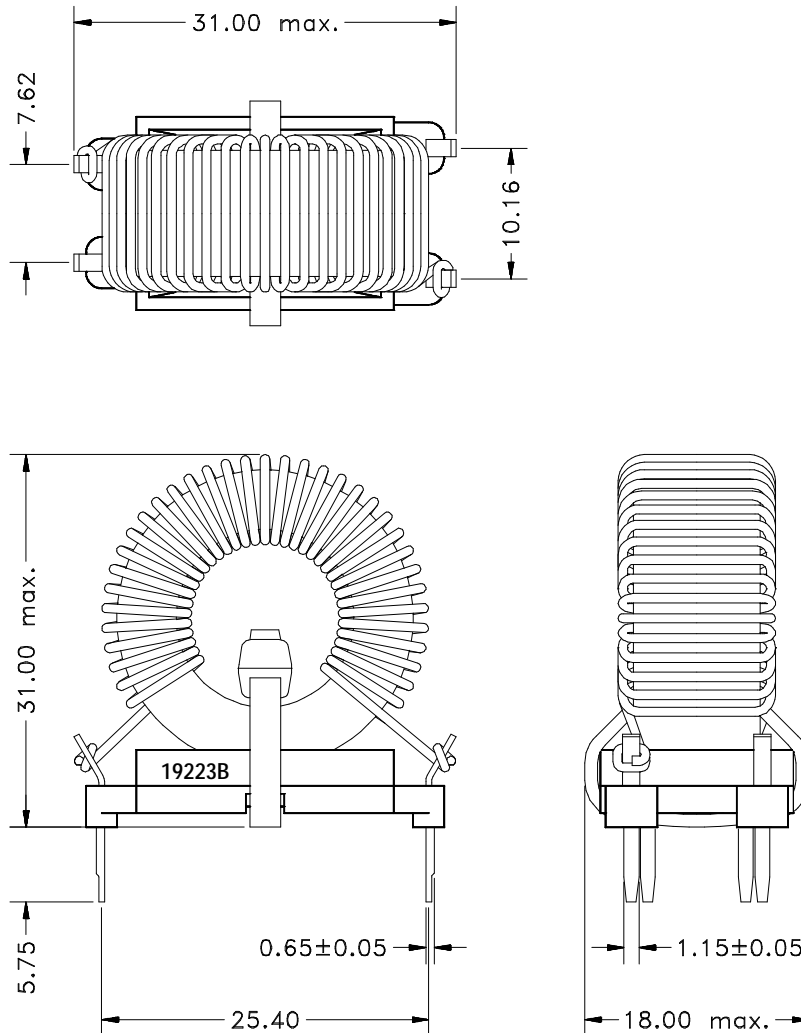
Part Number	Inductance ($\pm 10\%$) (at 1kHz) μH	DC Resistance (max.) $\text{m}\Omega$	Continuous DC Current ($I_{\text{DC max.}}$) A	Temp rise (at I_{DC}) $^{\circ}\text{C}$	Nominal Q at f kHz		Nominal Self Resonant Frequency MHz
					Q	f	
19 103	10	25	7.50	20	60	100	60
19 223	22	35	4.50	15	30	50	40
19 333	33	40	4.00	12	60	50	30
19 473	47	45	3.20	10	35	50	20
19 683	68	55	2.60	7	30	50	15
19 104	100	65	2.20	5	100	50	12.3
19 224	220	100	1.20	4	90	10	2.90
19 334	330	120	1.00	3	90	10	1.70
19 474	470	145	0.80	2	90	10	1.30
19 684	680	180	0.60	2	90	10	0.95
19 105	1mH	220	0.50	1	90	10	0.75

Note : All data taken at $T_A=25^{\circ}\text{C}$.

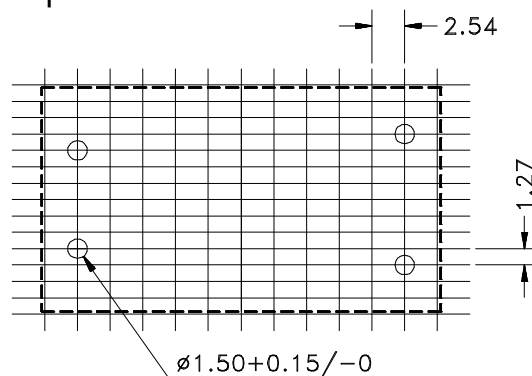
The part numbers shown in the table are for the unmounted version, for the base mounted version add a B suffix to the end of the part number (e.g. 19 223B).

outline dimensions

mounted version



recommended footprint details



All dimensions in mm XX.XX ±0.25

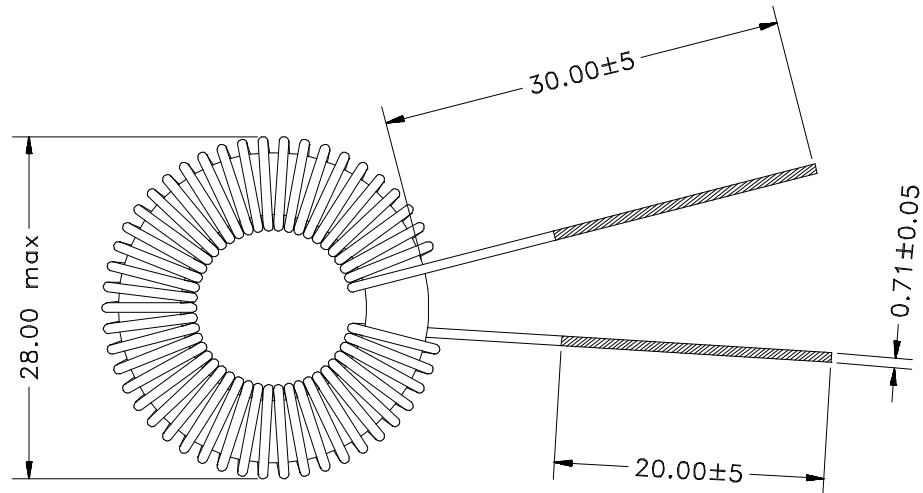
1900 SERIES

1900 SERIES

High Current Toroidal Inductors

outline dimensions

unmounted version



All dimensions in mm

typical core characteristics

Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature T_C	Saturation Flux BSAT
1100ppm	3200ppm	*	500mT

* T_C is very high but cores are not recommended for use above 125°C.