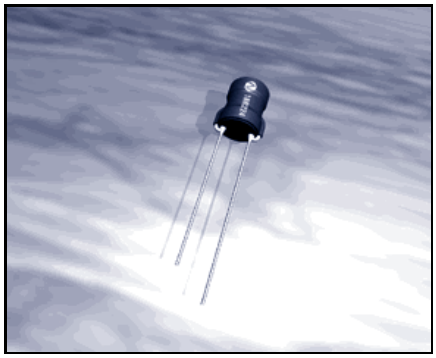
C&D TECHNOLOGIES
Power Solutions

1800R SERIES

Radial Lead Inductors



FEATURES

- Radial Format
- Up to 5.35A IDC
- 4.7µH to 10mH
- Low DC Resistance
- Compact Size
- Fully Tinned Leads
- MIL-I-23053/5 Class III Sleeving
- Supplied in packs of 10
- Custom & Axial Parts Available

DESCRIPTION

The 1800R Series of inductors are particularly suited to use with a wide variety of switching regulators. Offering high current handling with a small footprint, the devices are ideal where space is at a premium.

SELECTION GUIDE

	Inductance	DC Resistance	DC Current Continuous	Nominal Q at f kHz		Nominal Self Resonant Frequency
Order Code	±10% (at 1kHz) µH	mΩ MAX	A MAX	Q	f	MHz
18R472	4.7[1]	9	5.35	106	1000	35.1
18R682	6.8	12	4.15	73	500	26.3
18R103	10	15	3.45	59	500	23.8
18R153	15	18	3.00	55	500	17.0
18R223	22	25	2.42	51	500	14.1
18R333	33	40	2.00	48	500	11.5
18R473	47	55	1.65	46	500	9.85
18R683	68	70	1.35	27	100	8.29
18R104	100	100	1.20	40	100	7.40
18R154	150	165	1.10	40	100	5.58
18R224	220	230	0.90	39	100	4.00
18R254	250	255	0.80	40	100	3.85
18R334	330	335	0.73	49	100	3.57
18R474	470	465	0.60	50	100	2.81
18R684	680	630	0.53	48	100	2.43
18R105	1mH	1.0Ω	0.44	92	50	1.82
18R155	1.5mH	1.5Ω	0.33	106	50	1.60
18R225	2.2mH	2.2Ω	0.30	106	50	1.41
18R335	3.3mH	3.5Ω	0.22	139	50	1.04
18R475	4.7mH	4.6Ω	0.20	126	40	0.87
18R685	6.8mH	7.0Ω	0.15	143	40	0.71
18R106	10mH	12Ω	0.13	142	40	0.58

TYPICAL CORE CHARACTERISTICS

Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature T_C	Saturation Flux B_{SAT}
430ppm	4000ppm	190°C	325mT

ABSOLUTE MAXIMUM RATINGS

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

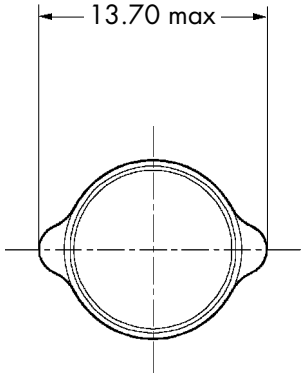
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1 Tolerance ±15%
Specifications typical at T_A =25°C

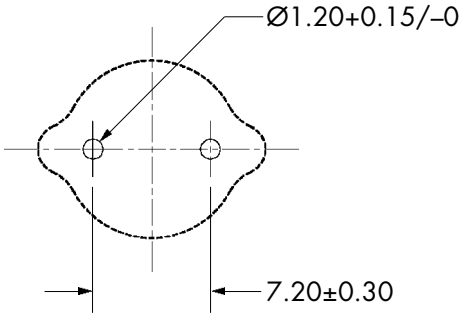
1800R SERIES

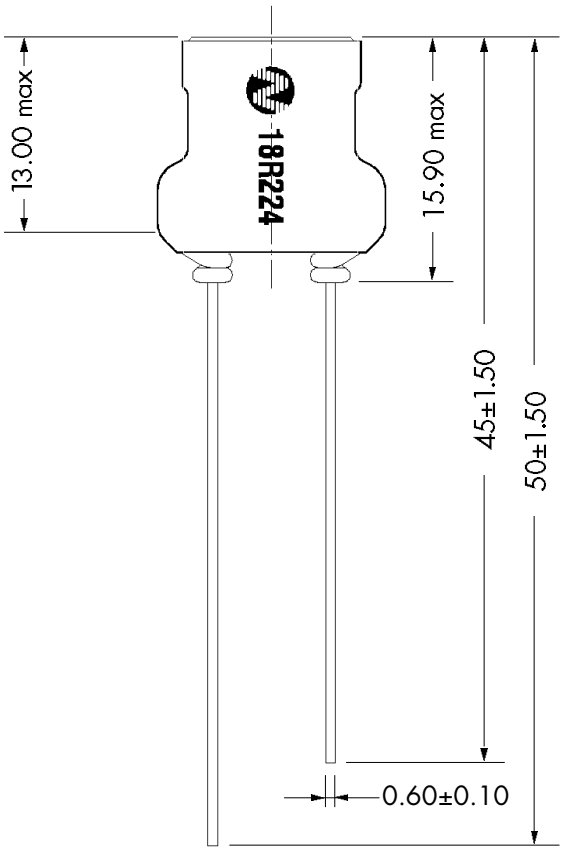
Radial Lead Inductors

MECHANICAL DIMENSIONS



Recommended Footprint Details





All dimensions in mm

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