



FEATURES

- RoHS compliant
- Radial format
- Up to 5.35A I_{DC}
- 4.7μH to 10mH
- Low DC resistance
- Compact size
- MIL-I-23053/5 class III sleeving
- Fully tinned leads
- Supplied in packs of 100
- Custom & axial parts available
- Backward compatible with Sn/Pb soldering systems

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

Order Code	Inductance (1kHz, 0.1V _{AC})	DC Current ¹	DC Resistance	Q @ f kHz		SRF	Recommended Alternative
	±10%	Max.	Max.	Nom.		Nom.	
	μH	A	mΩ	Q	f	MHz	
To be discontinued							
18R472C	4.7 ²	5.35	9.0	106	1000	35.1	Contact Murata
18R682C	6.8	4.15	12.0	73	500	26.3	Contact Murata
18R103C	10.0	3.45	15.0	59	500	23.8	Contact Murata
18R153C	15.0	3.00	18.0	55	500	17.0	Contact Murata
18R223C	22.0	2.42	25.0	51	500	14.1	Contact Murata
18R333C	33.0	2.00	40.0	48	500	11.5	Contact Murata
18R473C	47.0	1.65	55.0	46	500	9.85	Contact Murata
18R683C	68.0	1.35	70.0	27	100	8.29	Contact Murata
18R104C	100.0	1.20	100.0	40	100	7.40	Contact Murata
18R154C	150.0	1.10	165.0	40	100	5.58	Contact Murata
18R224C	220.0	0.90	230.0	39	100	4.00	Contact Murata
18R254C	250.0	0.80	255.0	40	100	3.85	Contact Murata
18R334C	330.0	0.73	335.0	49	100	3.57	Contact Murata
18R474C	470.0	0.60	465.0	50	100	2.81	Contact Murata
18R684C	680.0	0.53	630.0	48	100	2.43	Contact Murata
18R105C	1.0mH	0.44	1.0Ω	92	50	1.82	Contact Murata
18R155C	1.5mH	0.33	1.5Ω	106	50	1.60	Contact Murata
18R225C	2.2mH	0.30	2.2Ω	106	50	1.41	Contact Murata
18R335C	3.3mH	0.22	3.5Ω	139	50	1.04	Contact Murata
18R475C	4.7mH	0.20	4.6Ω	126	40	0.87	Contact Murata
18R685C	6.8mH	0.15	7.0Ω	143	40	0.71	Contact Murata
18R106C	10.0mH	0.13	12.0Ω	142	40	0.58	Contact Murata

TYPICAL CORE/WIRE 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

SOLDERING INFORMATION³

Peak wave solder temperature	300°C for 10 seconds
Pin finish	Bright tin



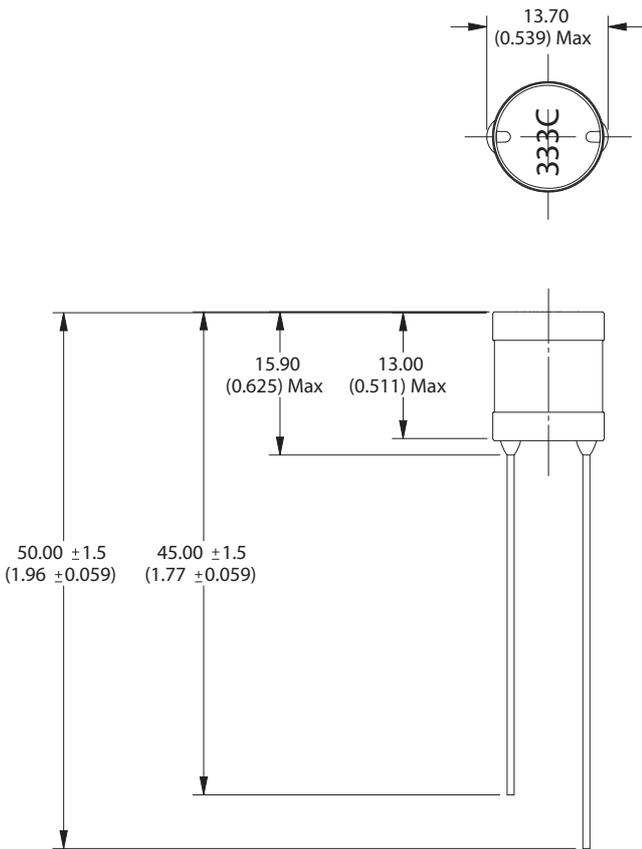
For full details go to
www.murata-ps.com/rohs

All specifications typical at T_A=25°C

- 1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.
- 2 Tolerance ±15%.
- 3 For further information, please visit www.murata-ps.com/rohs

PACKAGE SPECIFICATIONS

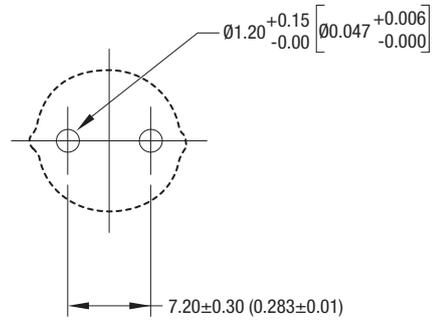
MECHANICAL DIMENSIONS



All dimensions in mm (inches).

Package weight 4.6g Typ.

RECOMMENDED FOOTPRINT DETAILS



All dimensions in mm (inches)

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- Power plant control equipment
- Medical equipment
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- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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