





DESCRIPTION

The 2200R Series is a general purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high density applications where a chip inductor will not cope with the power requirement.

SELECTION	GUIDE					
Order Code	Inductance, (1kHz, 0.1Vac)	DC Current ¹	DC Resistance	Q at f kHz		SRF
	±10%	Max.	Max.			Nom.
	μН	Α	Ω	Q	f	MHz
22R103C	10.0	1.62	0.05	65	1000	21.2
22R153C	15.0	1.35	0.07	60	500	19.4
22R223C	22.0	1.08	0.09	50	500	17.0
22R333C	33.0	0.90	0.14	50	500	11.4
22R473C	47.0	0.77	0.22	50	500	10.9
22R683C	68.0	0.77	0.28	90	100	8.7
22R104C	100.0	0.67	0.39	90	100	7.0
22R154C	150.0	0.52	0.54	90	100	5.7
22R224C	220.0	0.43	0.83	100	100	4.4
22R334C	330.0	0.38	1.21	100	100	3.7
22R474C	470.0	0.31	1.65	110	100	3.2
22R684C	680.0	0.25	2.64	120	100	2.5
22R105C	1.0mH	0.17	3.63	120	100	2.1
22R155C	1.5mH	0.13	6.49	130	100	1.9
22R225C	2.2mH	0.11	8.58	90	50	1.7
22R335C	3.3mH	0.10	11.0	140	150	1.2
22R475C	4.7mH	0.081	15.0	150	150	0.95
22R685C	6.8mH	0.072	22.0	145	150	0.85
22R106C	10.0mH	0.063	37.4	155	150	0.62
22R156C	15.0mH	0.054	51.7	140	150	0.51
22R226C	22.0mH	0.045	82.5	100	50	0.34
22R336C	33.0mH	0.036	118.8	95	50	0.28
22R476C	47.0mH	0.027	169.4	90	50	0.25
22R686C	68.0mH	0.018	242.0	70	50	0.20

TYPICAL CORE/WIRE CHARACTERISTICS								
Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature $(T_{\rm c})$	Saturation Flux (B _{SAT})					
350ppm	3900ppm	190°C	325mT					

ABSOLUTE MAXIMUM RATINGS				
Operating free air temperature range	-25°C to 70°C			
Storage temperature range	-40°C to 125°C			

SOLDERING INFORMATION ²					
Peak wave solder temperature	300°C for 10 seconds				
Pin finish	Hot dipped tin				

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 For further information, please visit www.murata-ps.com/rohs





Radial Lead Inductors

PACKAGE SPECIFICATIONS MECHANICAL DIMENSIONS RECOMMENDED FOOTPRINT DETAILS 0.283±0.0<u>20</u> (7.2±0.50) $\emptyset 0.047 + 0.006 = 0.000 = 0.000 = 0.000$ 1030 -0.118(3.00) 0.413 (10.50) Max 0.335±0.020 (8.5±0.50) All dimensions in inches (mm) 1.614±0.130 (41.00±3.30) 0.024±0.002 (0.60±0.05) All dimensions in inches (mm). Package weight 1.3g Typ.

Murata Power Solutions, Inc. 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are golden to change without notice.

© 2011 Murata Power Solutions, Inc.