

Inductors/Pulse/Coils

Order code	Manufacturer code	Description
88-1600	22R103	MINIATURE RADIAL INDUCTOR 10UH (RC)
88-1605	22R153	15UH 2200R SERIES INDUCTOR
88-1610	22R223	MINIATURE RADIAL INDUCTOR 22UH (RC)
88-1615	22R333	33UH 2200R SERIES INDUCTOR (RC)
88-1620	22R473	MINIATURE RADIAL INDUCTOR 47UH (RC)
88-1625	22R683	68UH 2200R SERIES INDUCTOR (RC)
88-1630	22R104	MIN RADIAL INDUCTOR 100UH RC
88-1635	22R154	150UH 2200R SERIES INDUCTOR (RC)
88-1640	22R224	MIN RADIAL INDUCTOR 220UH (RC)
88-1645	22R334	330UH 2200R SERIES INDUCTOR (RC)
88-1650	22R474	MIN RADIAL INDUCTOR 470UH (RC)
88-1655	22R684	680UH 2200R SERIES INDUCTOR
88-1660	22R105	1MH MINIATURE RADIAL INDUCTOR (RC)
88-1665	22R155	1.5MH 2200R SERIES INDUCTOR (RC)
88-1670	22R225	2.2MH MIN. RADIAL INDUCTOR (RC)
88-1672	22R335	3.3MH 2200R SERIES INDUCTOR
88-1674	22R475	4.7MH 2200R SERIES INDUCTOR (RC)
88-1676	22R106	10MH 2200R SERIES INDUCTOR RC
88-1678	22R156	15MH 2200R SERIES INDUCTOR
88-1680	22R226	22MH 2200R SERIES INDUCTOR
88-1682	22R336	33MH 2200R SERIES INDUCTOR (RC)
88-1684	22R476	47MH 2200R SERIES INDUCTOR (RC)
88-1686	22R686	68MH 2200R SERIES INDUCTOR (RC)

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The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

2200R Series Inductors

The Newport 2200R series of miniature radial lead small outline inductors ideally suited to power decoupling, low power switching regulators, LF tuned circuits and general applications. Open wound ferrite bobbin insulated overall with flame retardant sleeving.

	Description	Newport Part Number
	10 μ H 2200R SERIES INDUCTOR	22R103
	15 μ H 2200R SERIES INDUCTOR	22R153
	22 μ H 2200R SERIES INDUCTOR	22R223
	33 μ H 2200R SERIES INDUCTOR	22R333
	47 μ H 2200R SERIES INDUCTOR	22R473
	68 μ H 2200R SERIES INDUCTOR	22R683
	100 μ H 2200R SERIES INDUCTOR	22R104
	150 μ H 2200R SERIES INDUCTOR	22R154
	220 μ H 2200R SERIES INDUCTOR	22R224
	330 μ H 2200R SERIES INDUCTOR	22R334
	470 μ H 2200R SERIES INDUCTOR	22R474
	680 μ H 2200R SERIES INDUCTOR	22R684
	1mH 2200R SERIES INDUCTOR	22R105
	1.5mH 2200R SERIES INDUCTOR	22R155
	2.2mH 2200R SERIES INDUCTOR	22R225
	3.3mH 2200R SERIES INDUCTOR	22R335
	4.7mH 2200R SERIES INDUCTOR	22R475
	10mH 2200R SERIES INDUCTOR	22R106
	15mH 2200R SERIES INDUCTOR	22R156
	22mH 2200R SERIES INDUCTOR	22R226
	33mH 2200R SERIES INDUCTOR	22R336
	47mH 2200R SERIES INDUCTOR	22R476
	68mH 2200R SERIES INDUCTOR	22R686

features

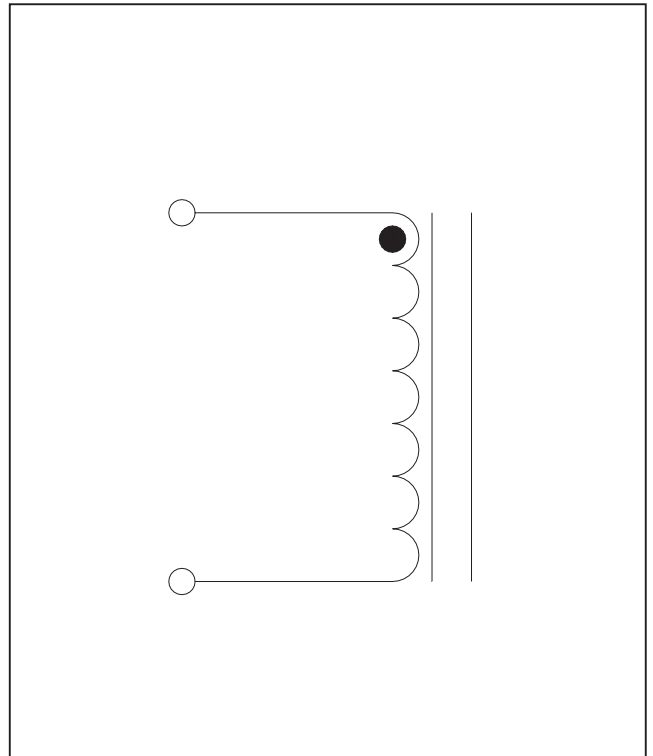
- Radial Format
- Up to 1.5A IDC
- 10mH to 2.2mH
- Low DC Resistance
- Miniature Size
- PCB Mounting
- MIL-I-23053/5 Class I & II Slewing
- Fully Tinned Leads



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.

schematic



absolute maximum ratings

Operating free air temperature range -25°C to 70°C
 Storage temperature range -50°C to 125°C

2200R SERIES

Miniature Radial Lead Inductors

electrical specifications

Specifications typical at $T_A=25^\circ\text{C}$

Part Number	Inductance ($\pm 10\%$) (at 1kHz) μH	MAX DC Resistance Ω	DC Current Continuous A	Nominal Q at f kHz		Nominal Self Resonant Frequency MHz
				Q	f	
22R 103	10	0.07	1.50	140	1400	40.00
22R 153	15	0.80	1.10	150	1400	30.00
22R 223	22	0.11	1.00	150	950	20.00
22R 333	33	0.15	0.92	150	950	15.00
22R 473	47	0.28	0.78	160	600	12.80
22R 683	68	0.30	0.77	150	700	6.80
22R 104	100	0.50	0.66	160	450	6.00
22R 154	150	0.54	0.52	160	300	4.40
22R 224	220	1.05	0.44	150	250	3.70
22R 334	330	1.21	0.38	150	250	3.30
22R 474	470	1.87	0.31	140	250	2.90
22R 684	680	2.70	0.25	120	250	2.20
22R 105	1mH	3.80	0.17	150	200	1.80
22R 155	1.5mH	5.40	0.13	160	200	1.65
22R 225	2.2mH	11.00	0.11	150	200	1.35

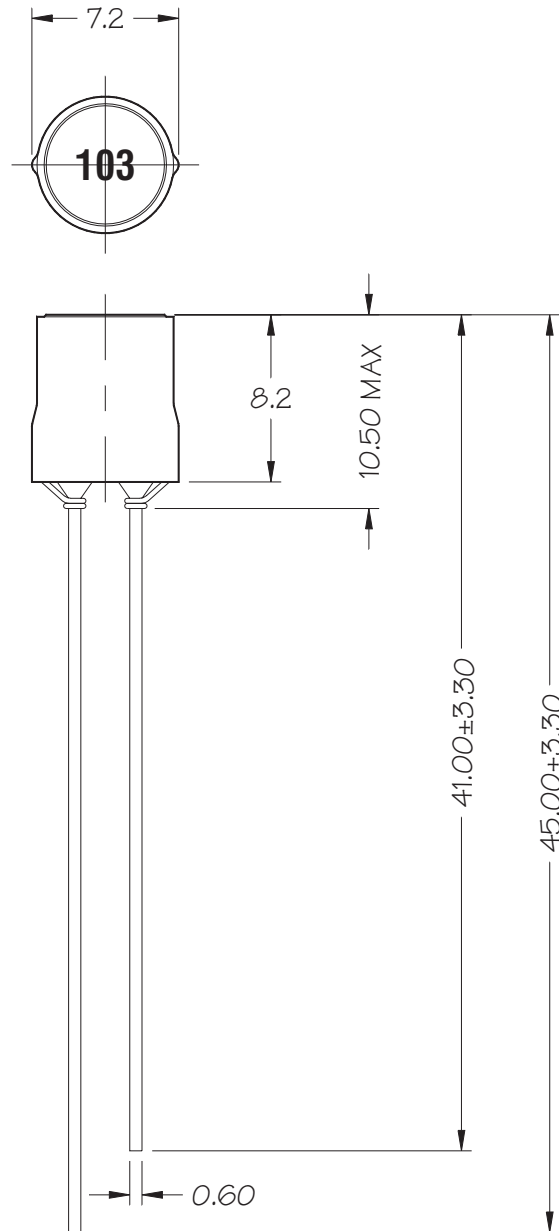
typical core characteristics

Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature T_C	Saturation Flux BSAT
350ppm	3900ppm	190°C	325mT

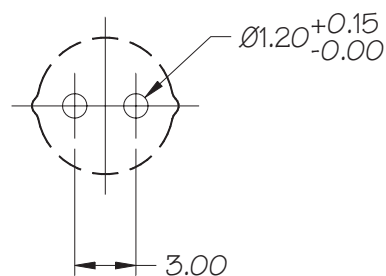
2200R SERIES

Miniature Radial Lead Inductors

outline dimensions¹



recommended footprint details



¹ All dimensions in mm XX.X ± 0.50 , XX.XX ± 0.25