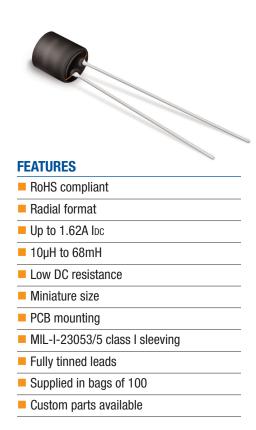


Radial Lead Inductors



## **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,<br>(1kHz, 0.1Vac) | DC Current <sup>1</sup> | DC Resistance | Q at f kHz |      | SRF  |
|            | ±10%                          | Max.                    | Max.          | Nom.       |      | Nom. |
|            | μН                            | Α                       | Ω             | Q          | f    | MHz  |
| 22R103C    | 10.0                          | 1.62                    | 0.05          | 40         | 1000 | 21.2 |
| 22R153C    | 15.0                          | 1.35                    | 0.07          | 30         | 500  | 19.4 |
| 22R223C    | 22.0                          | 1.08                    | 0.09          | 30         | 500  | 17.0 |
| 22R333C    | 33.0                          | 0.90                    | 0.14          | 25         | 500  | 11.4 |
| 22R473C    | 47.0                          | 0.77                    | 0.22          | 25         | 500  | 10.9 |
| 22R683C    | 68.0                          | 0.77                    | 0.28          | 70         | 100  | 10.6 |
| 22R104C    | 100.0                         | 0.67                    | 0.39          | 65         | 100  | 8.9  |
| 22R154C    | 150.0                         | 0.52                    | 0.54          | 80         | 100  | 6.2  |
| 22R224C    | 220.0                         | 0.43                    | 0.83          | 90         | 100  | 5.4  |
| 22R334C    | 330.0                         | 0.38                    | 1.21          | 95         | 100  | 4.5  |
| 22R474C    | 470.0                         | 0.31                    | 1.65          | 100        | 100  | 3.2  |
| 22R684C    | 680.0                         | 0.25                    | 2.64          | 105        | 100  | 3.0  |
| 22R105C    | 1.0mH                         | 0.17                    | 3.63          | 120        | 100  | 2.5  |
| 22R155C    | 1.5mH                         | 0.13                    | 6.49          | 130        | 100  | 2.1  |
| 22R225C    | 2.2mH                         | 0.11                    | 8.58          | 130        | 50   | 1.9  |
| 22R335C    | 3.3mH                         | 0.10                    | 10.0          | 125        | 150  | 1.2  |
| 22R475C    | 4.7mH                         | 0.081                   | 13.2          | 130        | 150  | 0.95 |
| 22R685C    | 6.8mH                         | 0.072                   | 22.0          | 135        | 150  | 0.85 |
| 22R106C    | 10.0mH                        | 0.063                   | 37.4          | 140        | 150  | 0.62 |
| 22R156C    | 15.0mH                        | 0.054                   | 49.5          | 145        | 150  | 0.51 |
| 22R226C    | 22.0mH                        | 0.045                   | 82.5          | 100        | 50   | 0.34 |
| 22R336C    | 33.0mH                        | 0.036                   | 110.0         | 90         | 50   | 0.28 |
| 22R476C    | 47.0mH                        | 0.027                   | 154.0         | 80         | 50   | 0.25 |
| 22R686C    | 68.0mH                        | 0.018                   | 242.0         | 70         | 50   | 0.20 |

| TYPICAL CORE/WIRE CHARACTERISTICS     |                                       |  |  |  |  |  |  |  |
|---------------------------------------|---------------------------------------|--|--|--|--|--|--|--|
| Inductance Temperature<br>Coefficient | Resistance Temperature<br>Coefficient | Curie Temperature<br>(T <sub>c</sub> ) | Saturation Flux<br>(B <sub>SAT</sub> ) |  |  |  |  |  |
| 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 |  |  |  |  |

## **Rohs Compliance Information**



This series is compatible with RoHS soldering systems. A peak wave solder temperature of  $300^{\circ}\text{C}$  for 10 seconds is permitted. The pin termination finish on this product series is bright tin. All types are backward compatible with Sn/Pb soldering systems.

For further information, please visit www.cd4power.com/rohs

All specifications typical at  $T_A$ =25°C

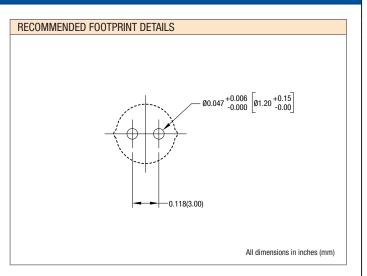
1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.





Radial Lead Inductors

## **PACKAGE SPECIFICATIONS** MECHANICAL DIMENSIONS 0.283±0.020 (7.2±0.50) <del>103</del>C 0.413 (10.50) Max 0.323±0.020 (8.2±0.50) 1.614±0.130 (41.00±3.30) 0.024+0.002 $(0.60\pm0.05)$ All dimensions in inches (mm). Package weight 1.3g Typ.





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