

2200R Series

Q at f kHz

Nom.

1000

500

500

500

500

100

100

100

100

100

100

100

100

100

50

150

150

150

150

150

50

50

50

Q

65

60

50

50

50

90

90

90

100

100

110

120

120

130

90

140

150

145

155

140

100

95

90

DC Resistance

Max.

Ω

0.05

0.07

0.09

0.14

0.22

0.28

0.39

0.54

0.83

1.21

1.65

2.64

3.63

6.49

8.58

11.0

15.0

22.0

37.4

51.7

82.5

118.8

169.4

Radial Lead Inductors

SRF

Nom.

 MHz

21.2

19.4

17.0

11.4

10.9

8.7

7.0

5.7

4.4

3.7

3.2

2.5

2.1

1.9

1.7

1.2

0.95

0.85

0.62

0.51

0.34

0.28

0.25



FEATURES

- RoHS compliant
- Radial format
- Up to 1.62A lpc
- 10µH to 68mH
- Low DC resistance
- Miniature size
- PCB mounting
- MIL-I-23053/5 class I sleeving
- Fully tinned leads
- Supplied in bags of 100
- Compatible with RoHS soldering systems
- Backward compatible with Sn/Pb soldering systems
- Custom parts available

22R686C	68.0mH	0.018	242.0	70	50	0.20			
TYPICAL CORE/WIRE CHARACTERISTICS									
Inductance Temperature Coefficient		Resistance Temperature Coefficient	Curie Tempo (T _c)	Curie Temperature (T _c)		Saturation Flux (B _{SAT})			
250	nnm	2000nnm	1000	n		20EmT			

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.

35Uppm	3900ppm	190°C	325M1					
ABSOLUTE MAXIMUM RATINGS								
Operating free air tempera	-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

SELECTION GUIDE

Order Code

22R103C

22R153C

22R223C

22R333C

22R473C

22R683C

22R104C

22R154C

22R224C

22R334C

22R474C

22R684C

22R105C

22R155C

22R225C

22R335C

22R475C

22R685C

22R106C

22R156C

22R226C

22R336C

22R476C

Inductance,

(1kHz, 0.1Vac)

±10%

μН

10.0

15.0

22.0

33.0

47.0

68.0

100.0

150.0

220.0

330.0

470.0

680.0

1.0mH

1.5mH

2.2mH

3.3mH

4.7mH

6.8mH

10.0mH

15.0mH

22.0mH

33.0mH

47.0mH

DC Current¹

Max.

Α

1.62

1.35

1.08

0.90

0.77

0.77

0.67

0.52

0.43

0.38

0.31

0.25

0.17

0.13

0.11

0.10

0.081

0.072

0.063

0.054

0.045

0.036

0.027

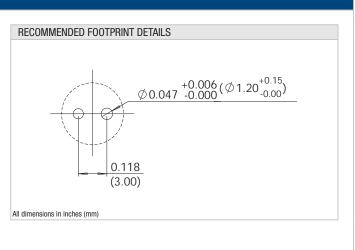
- 1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs





Radial Lead Inductors

PACKAGE SPECIFICATIONS MECHANICAL DIMENSIONS 0.283 ±0.020 (6.5 ±0.50) 0.413 Max (10.50) 0.335 ± 0.020 (8.50 ± 0.50) 1.614 ± 0.130 (45.00 ± 3.30) (41.00 ± 3.30) 0.024 ± 0.002 (0.60 ± 0.05) All dimensions in inches (mm). Package weight 1.3g Typ.





2200R Series

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