



FEATURES

- RoHS compliant
- Radial format
- Up to 1.8A I_{dc}
- 10µH to 68mH
- Low DC resistance
- Miniature size
- PCB mounting
- MIL-I-23053/5 class III sleeving
- Fully tinned leads
- Supplied in packs of 20
- Compatible with RoHS soldering systems
- Backward compatible with Sn/Pb soldering systems
- Custom parts available

DESCRIPTION

The 1700 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, 0.1V _{ac}) | DC Current ¹ | DC Resistance | Q at f kHz | | SRF |
|------------|--|-------------------------|---------------|------------|------|------|
| | ±10% | Max. | Max. | Nom. | | Nom. |
| | µH | A | Ω | Q | f | MHz |
| 17103C | 10.0 | 1.80 | 0.05 | 65 | 1000 | 21.2 |
| 17153C | 15.0 | 1.50 | 0.06 | 60 | 500 | 19.4 |
| 17223C | 22.0 | 1.20 | 0.08 | 50 | 500 | 17.0 |
| 17333C | 33.0 | 1.00 | 0.13 | 50 | 500 | 11.4 |
| 17473C | 47.0 | 0.86 | 0.20 | 50 | 500 | 10.9 |
| 17683C | 68.0 | 0.85 | 0.26 | 90 | 100 | 8.7 |
| 17104C | 100.0 | 0.74 | 0.35 | 90 | 100 | 7.0 |
| 17154C | 150.0 | 0.58 | 0.49 | 90 | 100 | 5.7 |
| 17224C | 220.0 | 0.48 | 0.75 | 100 | 100 | 4.4 |
| 17334C | 330.0 | 0.42 | 1.10 | 100 | 100 | 3.7 |
| 17474C | 470.0 | 0.34 | 1.50 | 110 | 100 | 3.2 |
| 17684C | 680.0 | 0.28 | 2.40 | 120 | 100 | 2.5 |
| 17105C | 1.0mH | 0.19 | 3.30 | 120 | 100 | 2.1 |
| 17155C | 1.5mH | 0.15 | 5.90 | 130 | 100 | 1.9 |
| 17225C | 2.2mH | 0.12 | 7.80 | 90 | 50 | 1.7 |
| 17335C | 3.3mH | 0.11 | 10.0 | 140 | 150 | 1.2 |
| 17475C | 4.7mH | 0.09 | 13.6 | 150 | 150 | 0.95 |
| 17685C | 6.8mH | 0.08 | 20.0 | 145 | 150 | 0.85 |
| 17106C | 10.0mH | 0.07 | 34.0 | 155 | 150 | 0.62 |
| 17156C | 15.0mH | 0.06 | 47.0 | 140 | 150 | 0.51 |
| 17226C | 22.0mH | 0.05 | 75.0 | 100 | 50 | 0.34 |
| 17336C | 33.0mH | 0.04 | 108.0 | 95 | 50 | 0.28 |
| 17476C | 47.0mH | 0.03 | 154.0 | 90 | 50 | 0.25 |
| 17686C | 68.0mH | 0.02 | 220.0 | 70 | 50 | 0.20 |

TYPICAL CORE/WIRE CHARACTERISTICS

| Inductance Temperature Coefficient | Resistance Temperature Coefficient | Curie Temperature (T _c) | Saturation Flux (B _{SAT}) |
|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| 350ppm | 3900ppm | 190°C | 325mT |

ABSOLUTE MAXIMUM RATINGS

| | |
|--------------------------------------|----------------|
| Operating free air temperature range | 0°C to 70°C |
| Storage temperature range | -40°C to 125°C |

SOLDERING INFORMATION²

| | |
|------------------------------|----------------------|
| Peak wave solder temperature | 300°C for 10 seconds |
| Pin finish | Hot dipped tin |

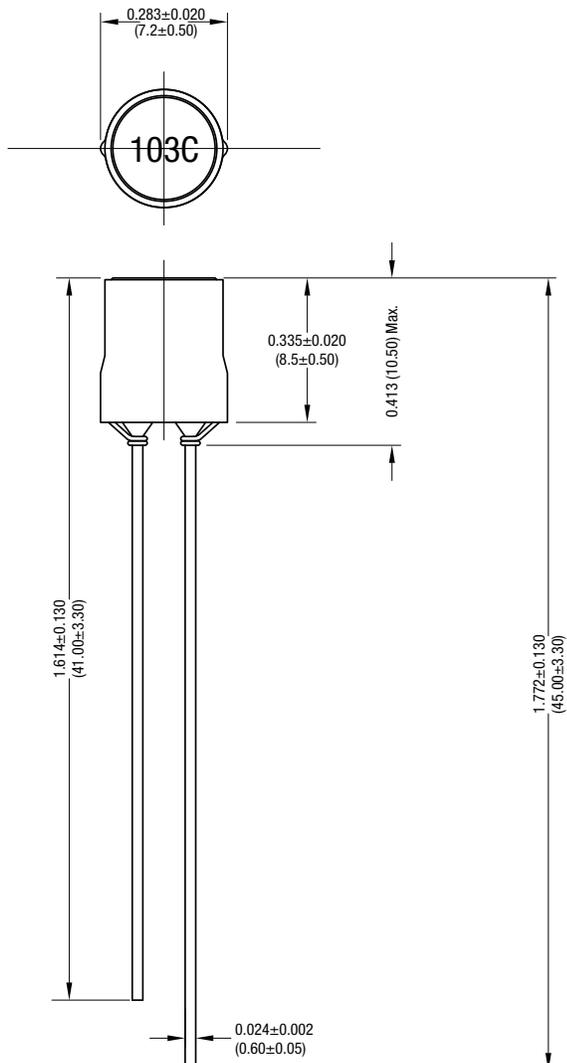
All specifications typical at T_A=25°C

- 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



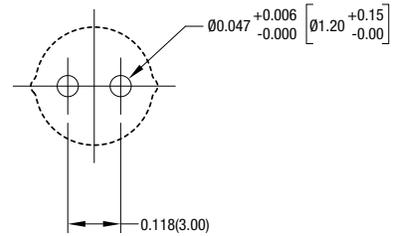
PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS



All dimensions in inches (mm). Package weight 1.3g Typ.

RECOMMENDED FOOTPRINT DETAILS



All dimensions in inches (mm)

Murata Power Solutions, Inc.
11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.
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