



FEATURES

- RoHS compliant
- Compact size, low profile
- Surface mount design
- Inductance range from 1.0μH to 3.3mH
- Tape & reel packaging
- UL 94V-0
- J-STD-020C reflow
- Custom solutions available

PRODUCT OVERVIEW

The 2800 series is a range of bobbin-wound, surface-mount inductors designed for use in switching power supply, and power line filter circuits. The parts are suitable for any application requiring a high saturation current in a miniature surface-mount footprint.

SELECTION GUIDE

| Order Code | Inductance (10kHz, 100mVAc) | | DC Current ² | DC Resistance | Q@f MHz | | SRF |
|---------------------|-----------------------------|--------------|-------------------------|---------------|---------|---------|------|
| | Nom. | Min.-Max. | | | Nom. | Typical | |
| | μH | μH | A | mΩ | Q | F | MHz |
| Discontinued | | | | | | | |
| 28102C | 1.0 | 0.68 - 1.02 | 15.5 | 2.6 | 45.6 | 1.0 | 104 |
| 28152C | 1.5 | 1.12 - 1.68 | 12.5 | 3.6 | 43.9 | 1.0 | 72 |
| 28222C | 2.2 | 1.56 - 2.34 | 11.2 | 4.4 | 36.9 | 1.0 | 58 |
| 28332C | 3.3 | 2.84 - 4.26 | 9.3 | 7.5 | 34.6 | 1.0 | 42 |
| 28472C | 4.7 | 3.68 - 5.52 | 8.3 | 10 | 33.3 | 1.0 | 37 |
| 28682C | 6.8 | 5.52 - 8.28 | 6.8 | 14 | 31.2 | 1.0 | 29 |
| 28103C | 10 | 7.84 - 11.76 | 5.9 | 18 | 31.1 | 1.0 | 22.5 |
| 28153C | 15 | 12.0 - 18.0 | 4.77 | 28 | 31.0 | 1.0 | 17.8 |
| 28223C | 22 | 17.7 - 26.5 | 3.85 | 42 | 43.5 | 1.0 | 14.4 |
| 28333C | 33 | 26.2 - 39.4 | 3.22 | 63 | 42.8 | 1.0 | 11.8 |
| 28473C | 47 | 39.0 - 58.4 | 2.66 | 86 | 31.5 | 1.0 | 10.4 |
| 28683C | 68 | 55.4 - 83.0 | 2.16 | 122 | 33.9 | 1.0 | 8.6 |
| 28104C | 100 | 80.8 - 121.2 | 1.80 | 174 | 21.4 | 0.8 | 7.7 |
| 28154C | 150 | 121 - 181 | 1.40 | 276 | 20.9 | 0.8 | 6.7 |
| 28224C | 220 | 178 - 266 | 1.20 | 381 | 18.0 | 0.8 | 5.8 |
| 28334C | 330 | 266 - 398 | 0.95 | 575 | 30.8 | 0.8 | 5.0 |
| 28474C | 470 | 383 - 575 | 0.78 | 816 | 31.7 | 0.8 | 4.3 |
| 28684C | 680 | 548 - 822 | 0.64 | 1170 | 20.4 | 0.8 | 4.2 |
| 28105C | 1000 | 940 - 1150 | 0.51 | 1820 | 21.0 | 0.8 | 3.8 |
| 28155C | 1500 | 1390 - 1700 | 0.41 | 2620 | 19.8 | 0.8 | 3.4 |
| 28225C | 2200 | 1960 - 2400 | 0.35 | 3720 | 15.8 | 0.8 | 3.3 |
| 28335C | 3300 | 3030 - 3700 | 0.29 | 5760 | 12.8 | 0.8 | 3.2 |

ABSOLUTE MAXIMUM RATINGS

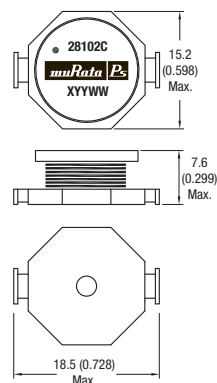
| | |
|-----------------------------|----------------|
| Operating temperature range | -40°C to 125°C |
| Storage temperature range | -40°C to 150°C |

SOLDERING INFORMATION¹

| | |
|--------------------------------|-------|
| Peak reflow solder temperature | 245°C |
| Pin finish | Tin |

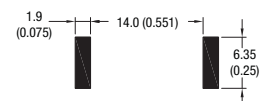
PACKAGE SPECIFICATIONS

Mechanical Dimensions



Package weight: 3.9g Typ.
All dimensions in mm (inches)
Dot signifies the innermost turn of the winding

Recommended Footprint Details



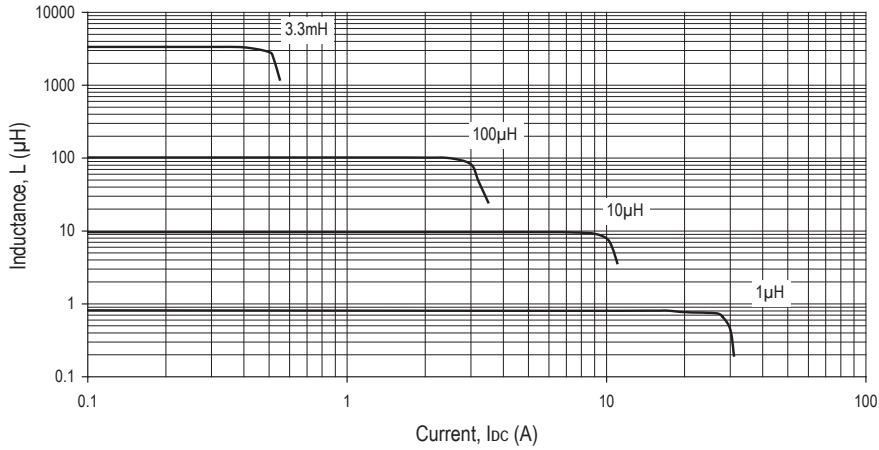
Specifications typical at $T_a = 25^\circ\text{C}$

- 1 For further information, please visit www.murata-ps.com/rohs
- 2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

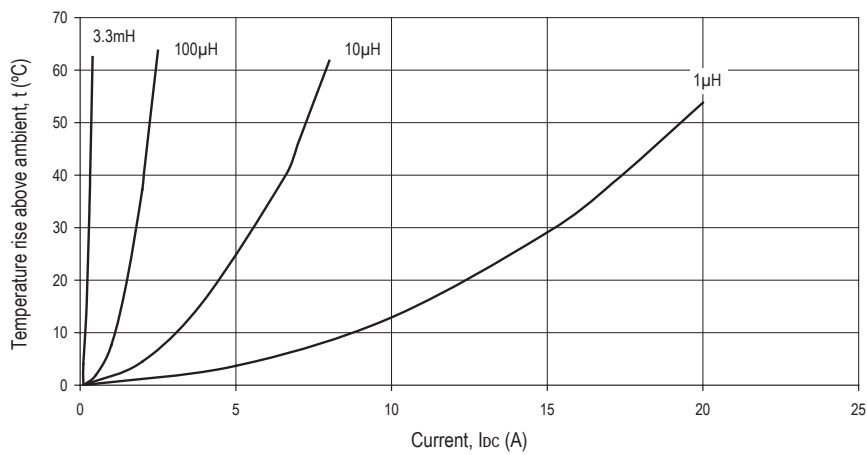


For full details go to www.murata-ps.com/rohs

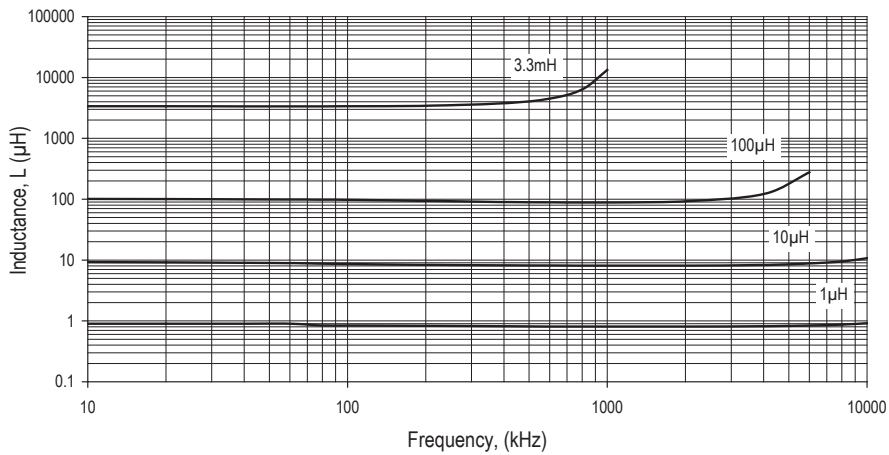
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

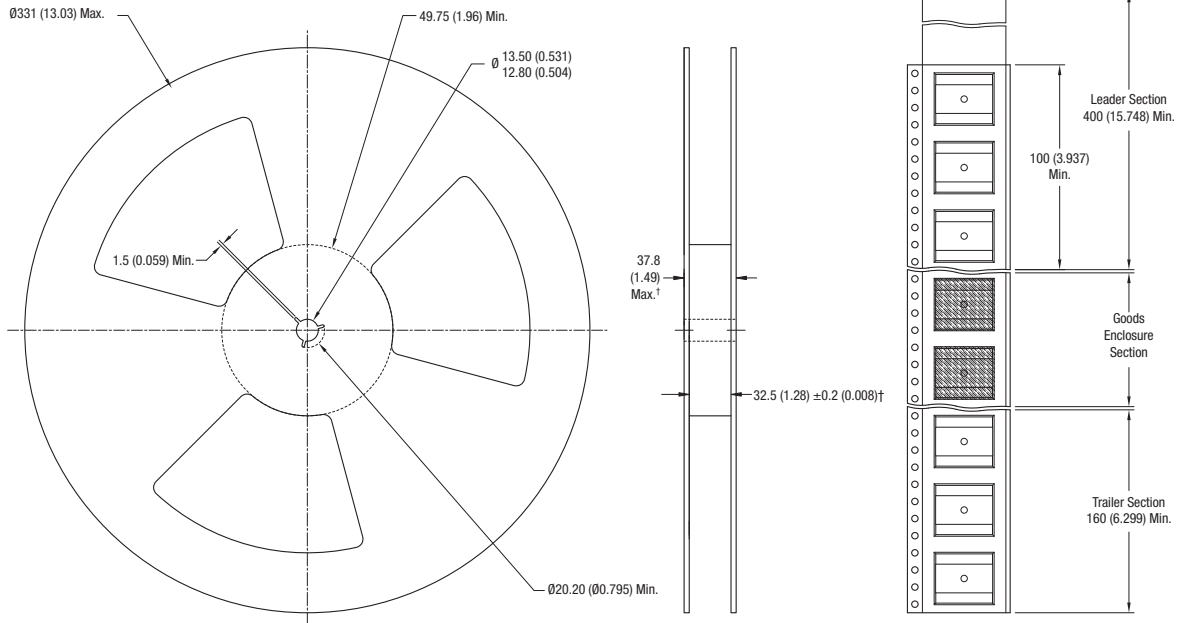


INDUCTANCE Vs FREQUENCY



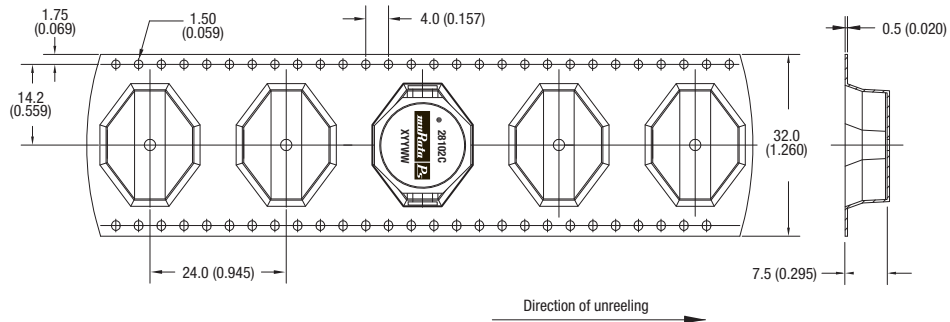
PACKAGE SPECIFICATIONS

Mechanical Dimensions



All dimension in mm (inches)
 † Measured at hub

Tape Outline Dimensions



Reel quantity: 350
 All dimensions in mm (inches)

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

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