

FEATURES

- RoHS compliant
- 3.3μH to 330μH
- Surface mount
- J-STD-020C reflow
- Up to 5.20A I_{DC}
- UL94 V-0 package materials
- Compact size
- Toroidal construction minimizes EMI
- Pick & place compatible
- Backward compatible with Sn/Pb soldering systems

PRODUCT OVERVIEW

The 4000 series is a range of surface mount toroidal inductors designed for use in switching power supplies and DC/DC converters. The parts are ideal for applications requiring low profile compact components in a surface mount package.

SELECTION GUIDE

| Order Code | Inductance (10kHz, 10mV _{AC}) | | Inductance Range (10kHz, 10mV _{AC}) | DC Current ¹ | | DC Resistance | |
|------------|---|-------------|---|-------------------------|------|---------------|--|
| | Nom. | Min. - Max. | | Max. | Max. | | |
| | μH | μH | A | mΩ | | | |
| 403R3C | 3.3 | 2.4-3.9 | 5.20 | 17 | | | |
| 404R7C | 4.7 | 3.7-6.1 | 4.40 | 19 | | | |
| 406R8C | 6.8 | 5.3-8.8 | 3.60 | 20 | | | |
| 40100C | 10 | 7.2-12.0 | 3.00 | 23 | | | |
| 40150C | 15 | 11.9-19.8 | 2.40 | 30 | | | |
| 40220C | 22 | 16.2-27.0 | 2.10 | 35 | | | |
| 40330C | 33 | 24.8-41.4 | 1.66 | 54 | | | |
| 40470C | 47 | 35.3-58.9 | 1.42 | 79 | | | |
| 40680C | 68 | 50.3-83.9 | 1.20 | 148 | | | |
| 40101C | 100 | 74.4-124 | 0.94 | 177 | | | |
| 40151C | 150 | 115-192 | 0.76 | 273 | | | |
| 40221C | 220 | 165-275 | 0.67 | 405 | | | |
| 40331C | 330 | 247-412 | 0.54 | 610 | | | |

ABSOLUTE MAXIMUM RATINGS

| | |
|--------------------------------------|----------------|
| Operating free air temperature range | -40°C to 85°C |
| Storage temperature range | -40°C to 125°C |

SOLDERING INFORMATION²

| | |
|-------------------------|--------------|
| Peak reflow temperature | 245°C |
| Pin finish | Pure tin dip |

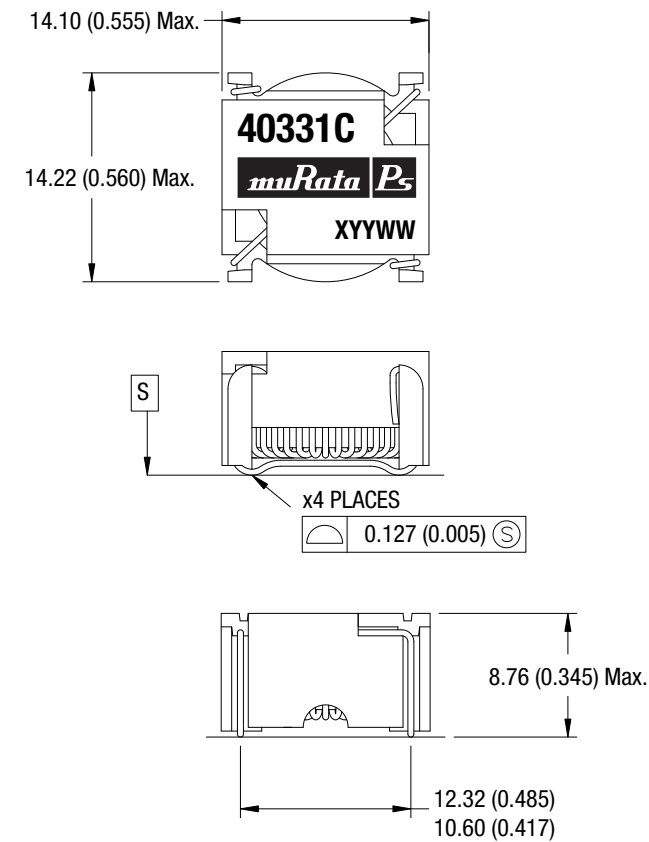
All specifications typical at T_a=25°C

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



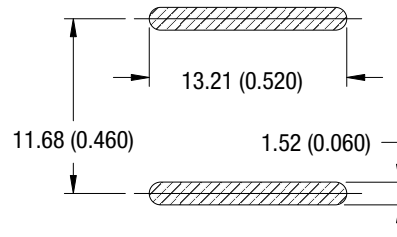
PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS



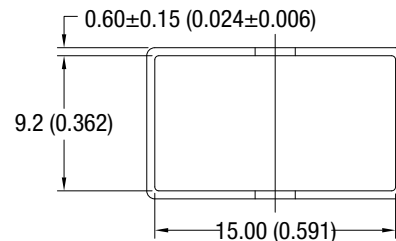
All dimensions in mm (inches).
 Package weight 3.2g.

RECOMMENDED FOOTPRINT DETAILS



All dimensions in mm (inches).

TUBE OUTLINE DIMENSIONS



All dimensions in mm (inches).
 Tube quantity: 30
 Tube material: Antistatic coated clear PVC
 Tube length: 475±2 [18.701±0.079]