



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FEATURES

- RoHS compliant
- Toroidal construction
- Up to 4.5A I_{DC}
- Inductance range from 10μH to 1.0mH
- Low EMI
- UL 94V-0 packaging materials
- Low DC resistance

PRODUCT OVERVIEW

The 3200 series is a range of through-hole power inductors. Due to the toroidal construction, they exhibit a very low EMI as stray flux is kept to a minimum. Typical applications include switching regulators, and power line filtering.

SELECTION GUIDE

| Order Code | Inductance, L | DC Current ² | DC Resistance | Q @ f MHz | | SRF | Package Weight |
|------------|---------------|-------------------------|---------------|-----------|-----|------|----------------|
| | ±15% | Max. | Max. | Nom. | | Typ. | Typ. |
| | μH | A | mΩ | Q | f | MHz | g |
| 32100C | 10 | 4.50 | 20 | 3.1 | 1.0 | 69 | 7.8 |
| 32150C | 15 | 3.70 | 24 | 3.1 | 1.0 | 53 | 8.1 |
| 32220C | 22 | 3.00 | 29 | 3.2 | 1.0 | 41 | 8.4 |
| 32330C | 33 | 2.50 | 36 | 3.2 | 1.0 | 28 | 8.8 |
| 32470C | 47 | 2.10 | 42 | 3.1 | 1.0 | 21 | 9.2 |
| 32680C | 68 | 1.70 | 62 | 3.1 | 1.0 | 11 | 9.0 |
| 32101C | 100 | 1.40 | 77 | 3.5 | 0.8 | 5.3 | 9.6 |
| 32151C | 150 | 1.20 | 117 | 3.3 | 0.8 | 3.3 | 9.4 |
| 32221C | 220 | 0.96 | 141 | 3.3 | 0.8 | 2.8 | 9.8 |
| 32331C | 330 | 0.78 | 215 | 3.2 | 0.8 | 2.3 | 9.9 |
| 32471C | 470 | 0.66 | 312 | 2.8 | 0.8 | 1.6 | 9.6 |
| 32681C | 680 | 0.55 | 377 | 2.0 | 0.8 | 1.2 | 10.4 |
| 32102C | 1000 | 0.45 | 568 | 1.2 | 0.8 | 1.0 | 10.1 |

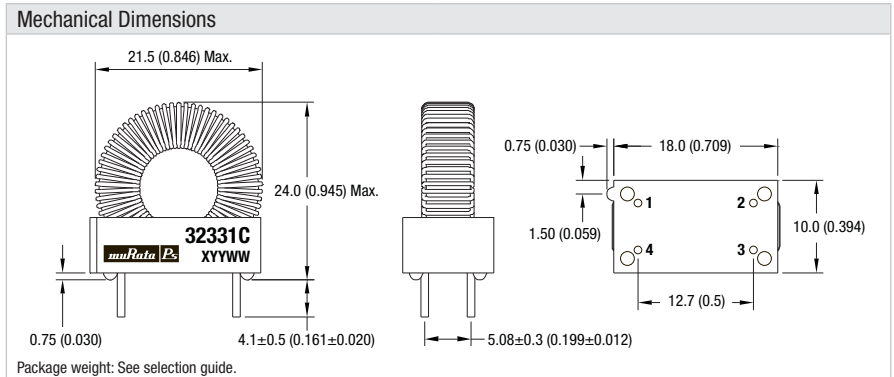
ABSOLUTE MAXIMUM RATINGS

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

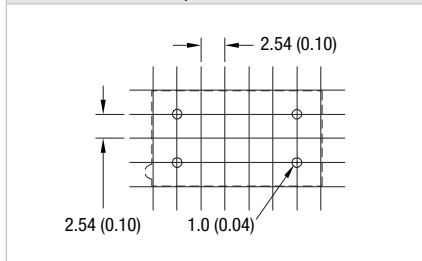
SOLDERING INFORMATION¹

| | |
|------------------------------|-------|
| Peak wave solder temperature | 260°C |
| Pin finish | Tin |

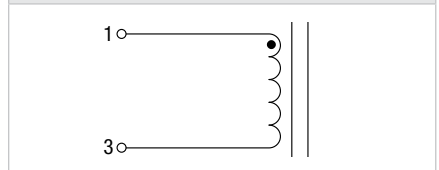
PACKAGE SPECIFICATIONS



Recommended Footprint Details



Pin Connections



Packaging

Supplied in trays (60 pieces per tray)

Unless otherwise stated, all dimensions in mm (inches) ± 0.25 (0.010).

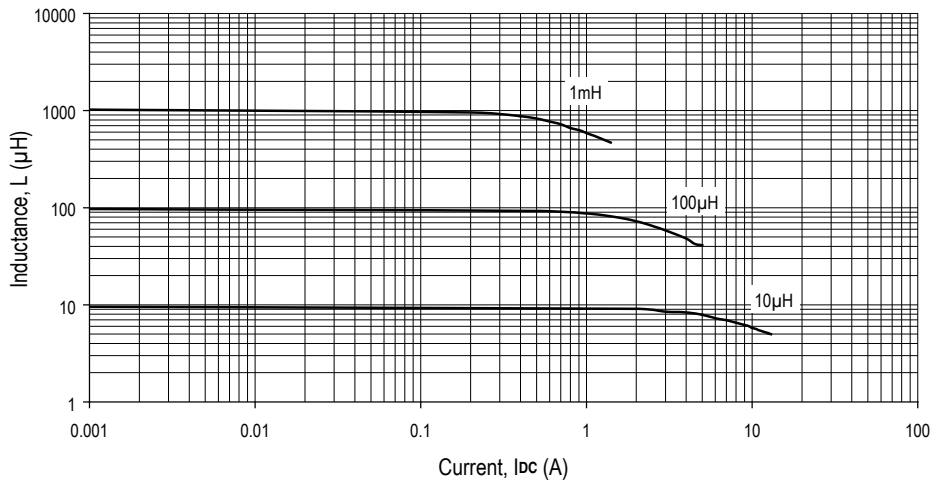
Specifications typical at T_a = 25°C

1 For further information, please visit www.murata-ps.com/rohs

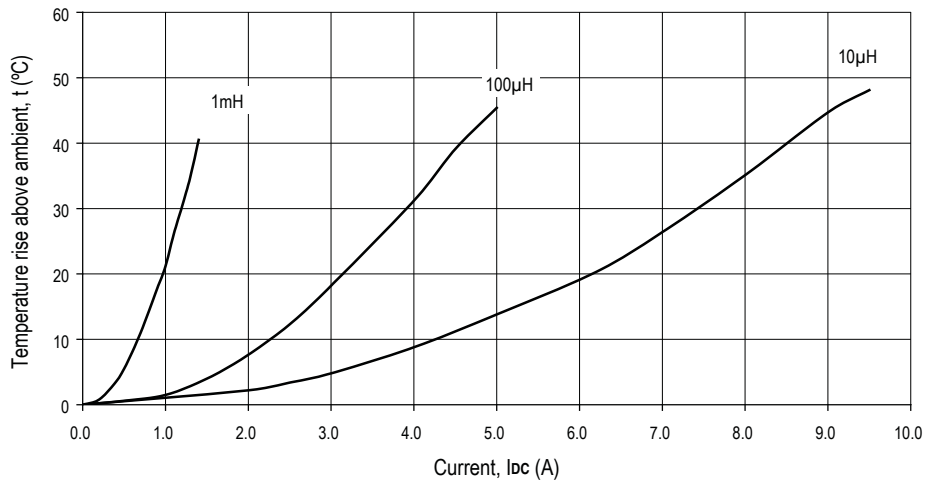
2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.



INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT



INDUCTANCE Vs FREQUENCY

