



Dual Winding Toroidal Surface Mount Inductors



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|--|-----|-----|--|---|
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- RoHS compliant
- Toroidal construction minimizes EMI
- Compact size
- Surface mount
- UL94 V-0 package materials
- Pick & place compatible
- J-STD-020C reflow
- Backward compatible with Sn/Pb soldering systems

DESCRIPTION

The 4300 series is a range of surface mount dual-winding toroidal inductors designed for use in switching power supplies and DC/DC converters. These devices can also be used as common-mode chokes, as the windings have a 1:1 ratio. They are ideal for applications requiring low profile compact components in a surface mount package.

| SELECTION | ON GUIDE | | | | | | | | | | |
|---------------|--|----------------------------|------------------|------|---------------------------------|-------|-------------------|-------|----------------------------|------|-------------------|
| Order Code | Inductance (100kHz, 0.1Vac) ¹ | DC Current ² | DC Resistance | SRF | Package Dimensions (Max.) | | Pad Dimensions | | Carrier Tape Dimensions | | Package Weight |
| Code | ±15% | Max. | Max. | Min. | Α | В | С | D | Е | F | Тур. |
| | μH | Α | mΩ | MHz | mm | mm | mm | mm | mm | mm | g |
| 43212C | 2.10 | 21 | 2.22 | 106 | 20.30 | 23.10 | 11.18 | 20.57 | 32.0 | 10.3 | 7.4 |
| 43402C | 4.00 | 22.4 | 3.10 | 69 | 25.40 | 28.20 | 15.75 | 25.65 | 36.0 | 10.6 | 12.5 |

| ABSOLUTE MAXIMUM RATINGS | | | | |
|---|-----------------|--|--|--|
| Isolation voltage (flash tested for 1 second), pins 1 & 2 | 500Vpc | | | |
| Operating temperature range | -40°C to +125°C | | | |
| Storage temperature range | -40°C to +130°C | | | |

| SOLDERING INFORMATION ³ | | | | |
|------------------------------------|--------------|--|--|--|
| Peak reflow temperature | 245°C | | | |
| Pin finish | Pure tin dip | | | |
| Moisture sensitivity level | 1 | | | |

| PACKAGING INFORMATION | | | | | |
|---|--------------|--------------|--|--|--|
| | 43212C | 43402C | | | |
| Tape & Reel (add suffix -R to part No. e.g. 43212C-R) | 180 per reel | 160 per reel | | | |
| Box | 35 per box | 20 per box | | | |

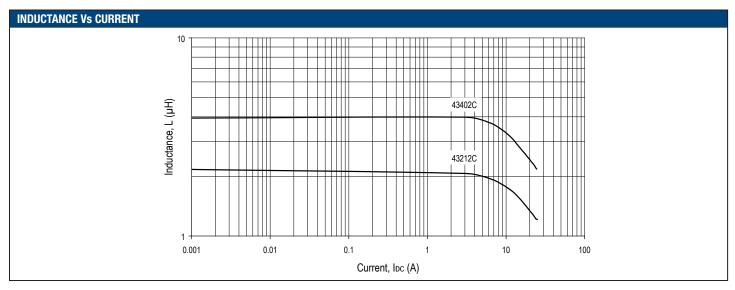
All specifications typical at T₄=25°C

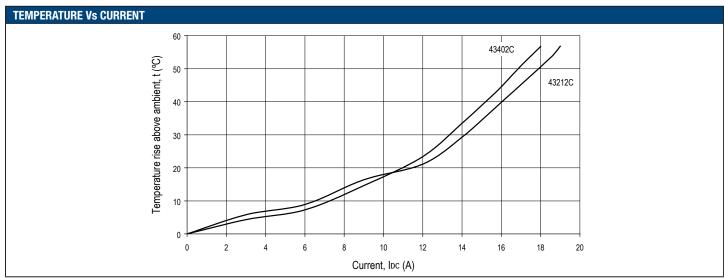
- 1 When connecting windings in series, inductance will be 4 times the figure shown.
- 2 With windings connected in parallel. Maximum DC current occurs when the temperature rise reaches 55°C.
- 3 For further information, please visit www.murata-ps.com/rohs

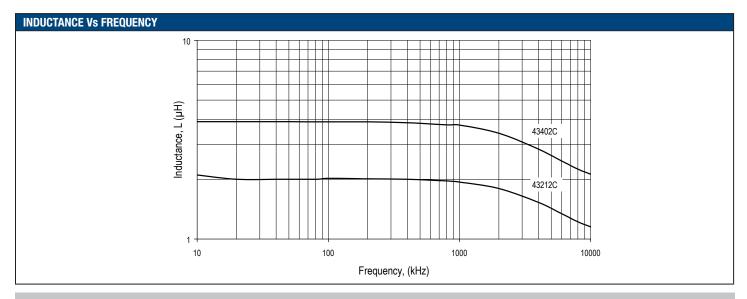




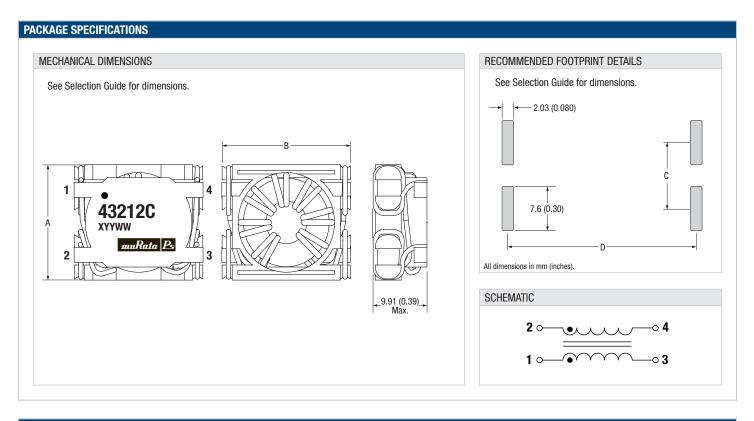
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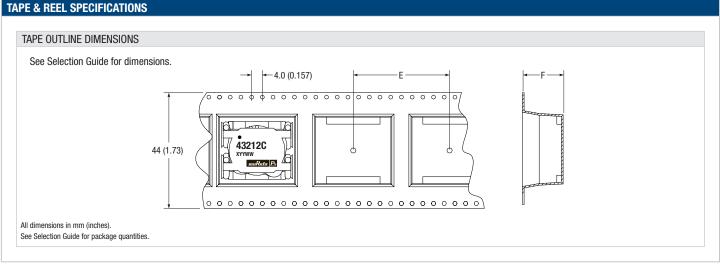






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