

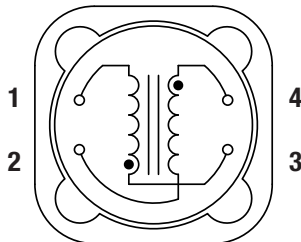
FEATURES

- RoHS compliant
- 2.2μH to 880μH¹
- Up to 9.5A I_{DC}
- Bobbin format
- Dual winding
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- No voltage breakdown at 500V_{DC}
- J-STD-020C reflow
- Backward compatible with Sn/Pb soldering systems

DESCRIPTION

The 4900 series is a range of dual wound inductors offering flexible options. Windings have a 1:1 ratio and can be connected in series or parallel to create a wide range of inductance combinations. The secondary winding could be used as a feedback winding in switched mode power supplies.

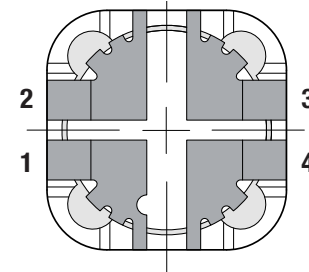
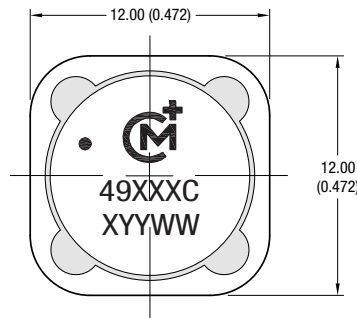
PIN CONNECTIONS (TOP VIEW)



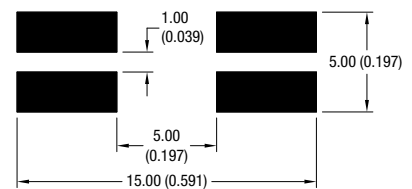
3 & 1 = Primary winding
4 & 2 = Secondary winding

| Order Code | Inductance ¹ (10kHz, 100mV _{AC}) 1&3, 2&4 | Inductance Range (10kHz, 100mV _{AC}) 1&3, 2&4 | DC Current ² (parallel connection) | DC Resistance |
|------------|--|---|--|---------------|
| | Nom. | Min. - Max. | Max. | Max. |
| | μH | μH | A | mΩ |
| 492R2C | 2.2 | 1.77 - 2.65 | 9.50 | 12.6 |
| 493R3C | 3.3 | 2.47 - 3.70 | 7.80 | 14.9 |
| 494R7C | 4.7 | 3.29 - 4.93 | 6.50 | 17.1 |
| 496R8C | 6.8 | 5.27 - 7.91 | 5.40 | 27.0 |
| 49100C | 10 | 7.70 - 11.6 | 4.50 | 41.0 |
| 49150C | 15 | 10.6 - 16.0 | 3.70 | 53.0 |
| 49220C | 22 | 15.9 - 23.8 | 3.00 | 81.0 |
| 49330C | 33 | 24.5 - 36.8 | 2.50 | 128 |
| 49470C | 47 | 35.1 - 52.6 | 2.10 | 191 |
| 49680C | 68 | 50.8 - 76.2 | 1.71 | 233 |
| 49101C | 100 | 73.6 - 110 | 1.41 | 343 |
| 49151C | 150 | 111 - 166 | 1.15 | 529 |
| 49221C | 220 | 167 - 251 | 0.95 | 805 |

MECHANICAL DIMENSIONS



Recommended Footprint Details



All dimensions in mm (inches). Package weight: 4g Typ.

ABSOLUTE MAXIMUM RATINGS

| | |
|---|--------------------|
| Isolation voltage (flash tested for 1 second), pins 3 & 4 | 500V _{DC} |
| Operating free air temperature range | -40°C to 85°C |
| Storage temperature range | -40°C to 125°C |

SOLDERING INFORMATION³

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

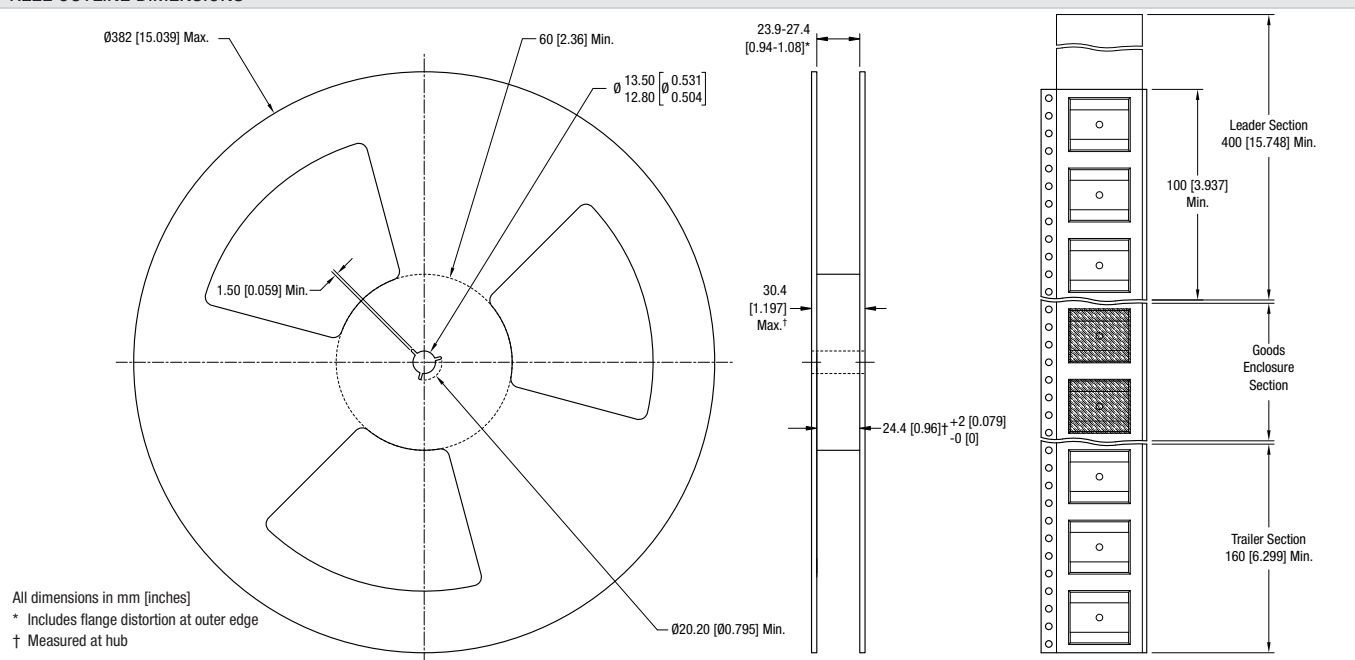
Specifications typical at T_a = 25°C

- 1 When connecting windings in series, inductance will be 4 times the nominal figure shown.
- 2 If current is flowing in both windings, the 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.
- 3 For further information, please visit www.murata-ps.com/rohs

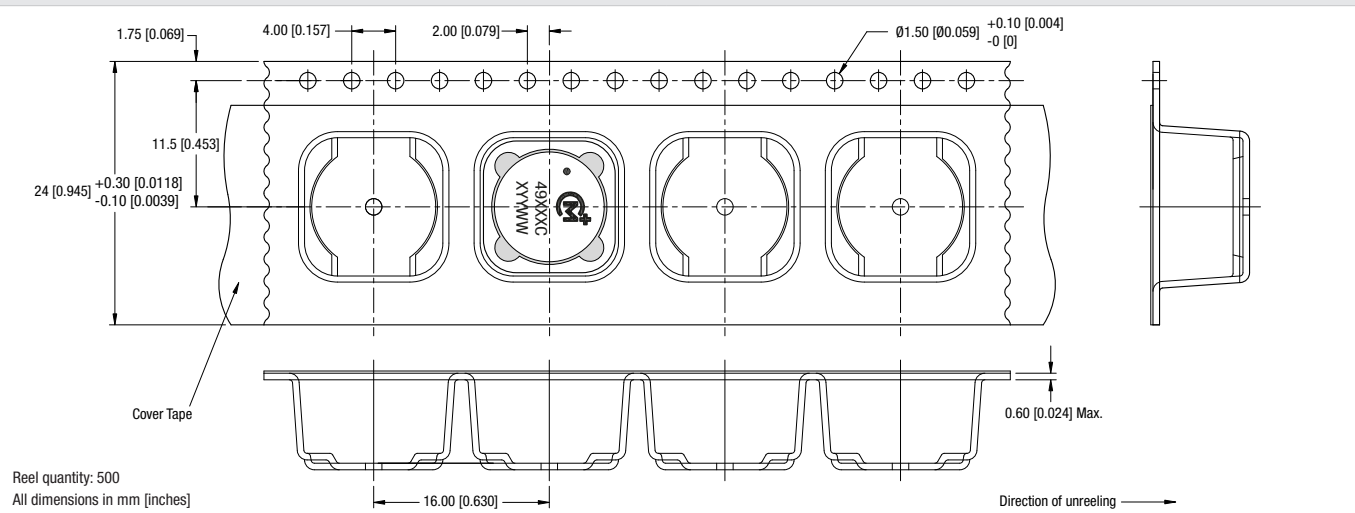


TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



TAPE OUTLINE DIMENSIONS



Murata Power Solutions, Inc.
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 ISO 9001 and 14001 REGISTERED

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