



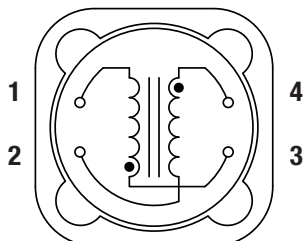
### FEATURES

- RoHS compliant
- 1.0μH to 400μH<sup>1</sup>
- Up to 9.5A IDC
- Bobbin format
- Dual winding
- Surface mount
- Integral EMI shield
- Compact size
- Tape and reel packaging
- J-STD-020-C reflow
- Backwards compatible with Sn/Pb soldering systems

### PRODUCT OVERVIEW

The 4700 series is a range of dual wound inductors offering flexible options. Windings can be connected in series or parallel to create a wide range of inductance combinations. They can also be used as common mode chokes or 1:1 transformers with the secondary winding used as a feedback winding in switched mode power supplies.

### PIN CONNECTIONS (TOP VIEW)



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

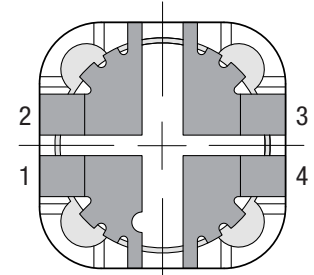
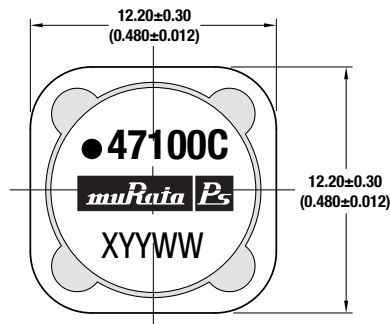


For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

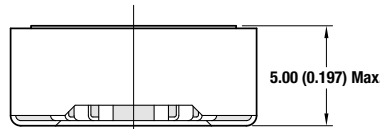
### SELECTION GUIDE

| Order Code    | Inductance <sup>1</sup><br>(10kHz, 100mV <sub>AC</sub> )<br>1&3, 2&4 | Inductance Range<br>(10kHz, 100mV <sub>AC</sub> )<br>1&3, 2&4 | DC Current <sup>2</sup><br>(parallel connection) | DC Resistance<br>1&3, 2&4 |
|---------------|----------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|---------------------------|
|               | Nom.                                                                 | Min. - Max.                                                   | Max.                                             | Max.                      |
|               | μH                                                                   | μH                                                            | A                                                | mΩ                        |
| <b>471R0C</b> | 1.0                                                                  | 0.83 - 1.39                                                   | 9.50                                             | 8.9                       |
| <b>472R2C</b> | 2.2                                                                  | 1.38 - 2.30                                                   | 6.80                                             | 13.7                      |
| <b>473R3C</b> | 3.3                                                                  | 2.87 - 4.79                                                   | 5.50                                             | 23.3                      |
| <b>474R7C</b> | 4.7                                                                  | 4.08 - 6.12                                                   | 4.60                                             | 32.4                      |
| <b>476R8C</b> | 6.8                                                                  | 5.24 - 7.86                                                   | 3.90                                             | 44.8                      |
| <b>47100C</b> | 10                                                                   | 8.00 - 12.0                                                   | 3.20                                             | 70.2                      |
| <b>47150C</b> | 15                                                                   | 11.3 - 17.0                                                   | 2.60                                             | 106                       |
| <b>47220C</b> | 22                                                                   | 17.4 - 26.1                                                   | 2.10                                             | 165                       |
| <b>47330C</b> | 33                                                                   | 27.6 - 41.4                                                   | 1.80                                             | 207                       |
| <b>47470C</b> | 47                                                                   | 36.7 - 55.1                                                   | 1.47                                             | 298                       |
| <b>47680C</b> | 68                                                                   | 54.9 - 82.3                                                   | 1.22                                             | 456                       |
| <b>47101C</b> | 100                                                                  | 81.4 - 122                                                    | 1.01                                             | 686                       |

### MECHANICAL DIMENSIONS



Recommended Footprint Details



All dimensions in mm (inches). Package weight: 2.5g Typ.

### ABSOLUTE MAXIMUM RATINGS

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

### SOLDERING INFORMATION<sup>3</sup>

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

Specifications typical at T<sub>a</sub> = 25°C

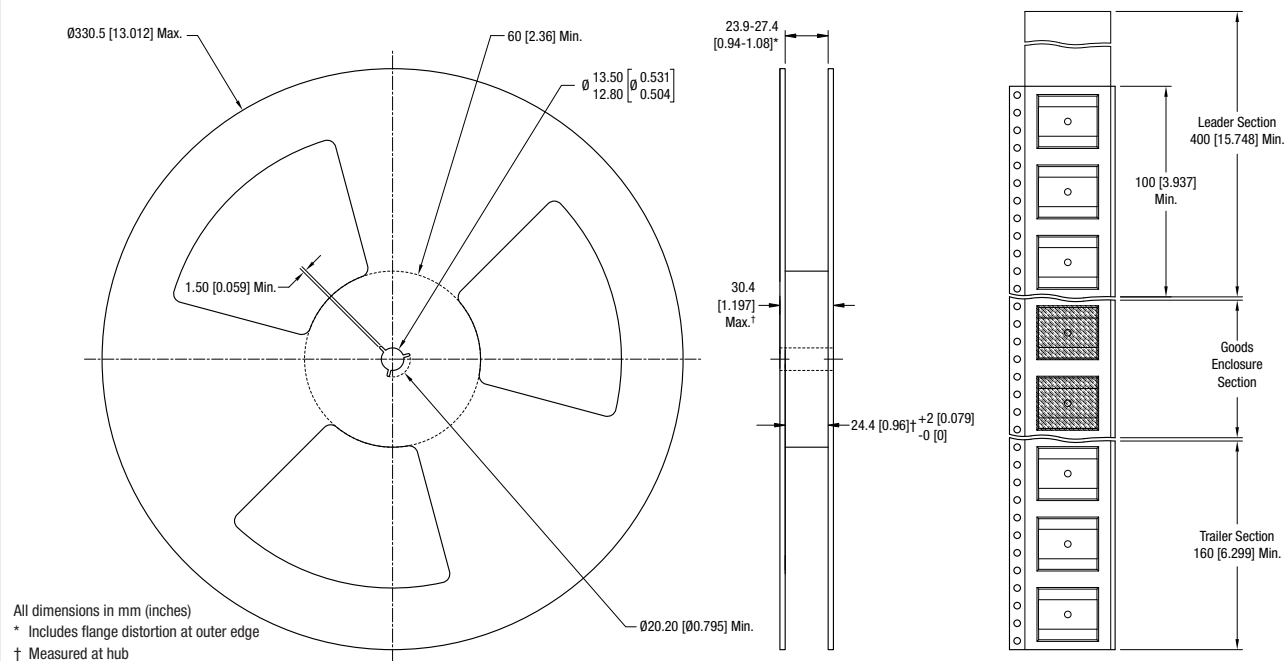
1 When connecting windings in series, inductance will be 4 times the nominal figure shown.

2 If current is flowing in both windings, the maximum DC current occurs when either the inductance falls to 85% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

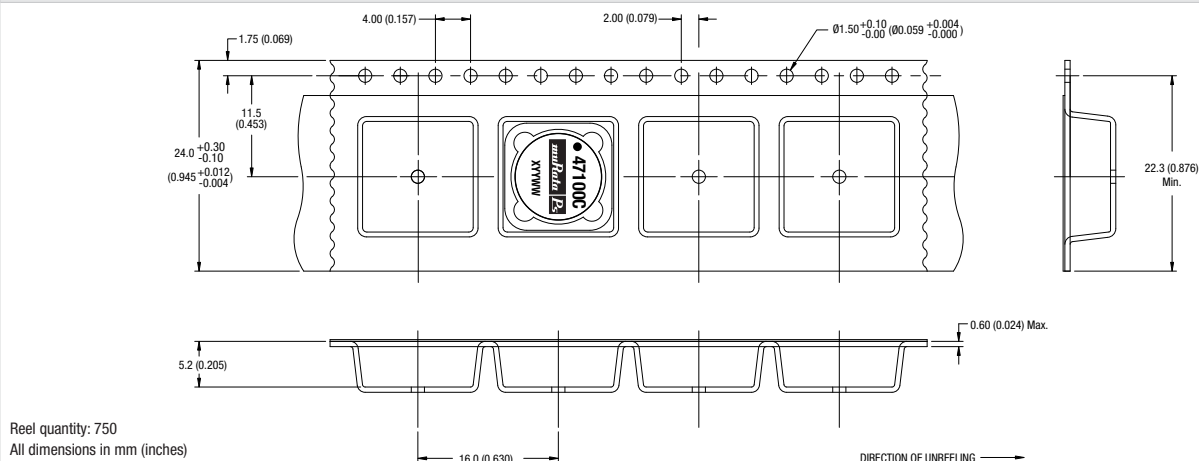
3 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

### TAPE & REEL SPECIFICATIONS

#### REEL OUTLINE DIMENSIONS



#### TAPE OUTLINE DIMENSIONS



Murata Power Solutions, Inc.

11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.

Tel: (508) 339-3000 (800) 233-2765 Fax: (508) 339-6356

**www.murata-ps.com email: sales@murata-ps.com ISO 9001 REGISTERED**

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**USA:** Mansfield (MA), Tel: (800) 233 2765, email: sales@murata-ps.com

**Canada:** Toronto, Tel: (866) 740 1232, email: toronto@murata-ps.com

**UK:** Milton Keynes, Tel: +44 (0)1908 615232, email: mk@murata-ps.com

**France:** Montigny Le Bretonneux, Tel: +33 (0)1 34 60 01 01, email: france@murata-ps.com

**Germany:** München, Tel: +49 (0)89-544334-0, email: ped.munich@murata-ps.com

**Japan:** Tokyo, Tel: 3-3779-1031, email: sales\_tokyo@murata-ps.com

Osaka, Tel: 6-6354-2025, email: sales\_osaka@murata-ps.com

**Website: www.murata-ps.jp**

**China:** Shanghai, Tel: +86 215 027 3678, email: shanghai@murata-ps.com

Guangzhou, Tel: +86 208 221 8066, email: guangzhou@murata-ps.com