



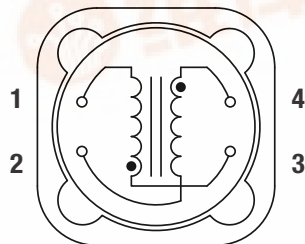
FEATURES

- RoHS compliant
- 1.0µH to 400µH¹
- Up to 12.3A 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

DESCRIPTION

The 4800 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 also be used as a feedback winding in switched mode power supplies.

PIN CONNECTIONS (TOP VIEW)

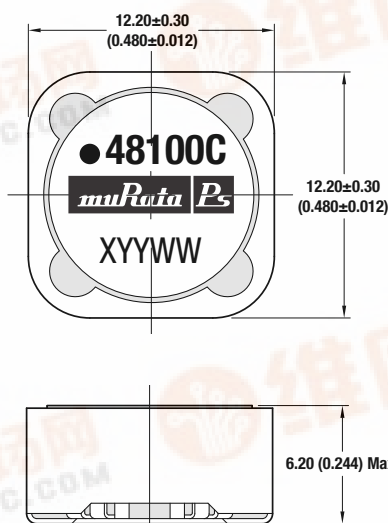


3 & 1 = Primary winding
4 & 2 = Secondary winding

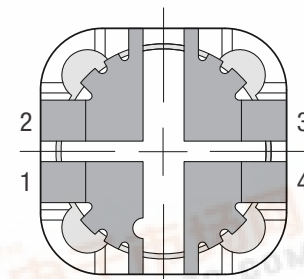
SELECTION GUIDE

Order Code	Inductance ¹ (10kHz, 100mVAC) 1&3, 2&4	Inductance Range (10kHz, 100mVAC) 1&3, 2&4	DC Current ² (parallel connection)	DC Resistance 1&3, 2&4
	Nom.	Min. - Max.	Max.	Max.
	µH	µH	A	mΩ
481R0C	1.0	0.66 - 1.11	12.3	9.00
482R2C	2.2	1.64 - 2.73	8.30	13.5
483R3C	3.3	2.29 - 3.82	6.80	19.1
484R7C	4.7	4.18 - 6.27	5.70	29.4
486R8C	6.8	5.22 - 7.83	4.70	39.9
48100C	10	7.65 - 11.5	3.90	61.4
48150C	15	12.2 - 18.2	3.20	77.4
48220C	22	17.7 - 26.6	2.60	119
48330C	33	26.7 - 40.1	2.10	184
48470C	47	37.6 - 56.4	1.80	274
48680C	68	53.8 - 80.7	1.50	409
48101C	100	81.3 - 122	1.23	503

MECHANICAL DIMENSIONS



All dimensions in mm (inches). Package weight: 3.1g Typ.



Recommended Footprint Details

ABSOLUTE MAXIMUM RATINGS

Isolation voltage (flash tested for 1 second), pins 3 & 4	500Vdc
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 85% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

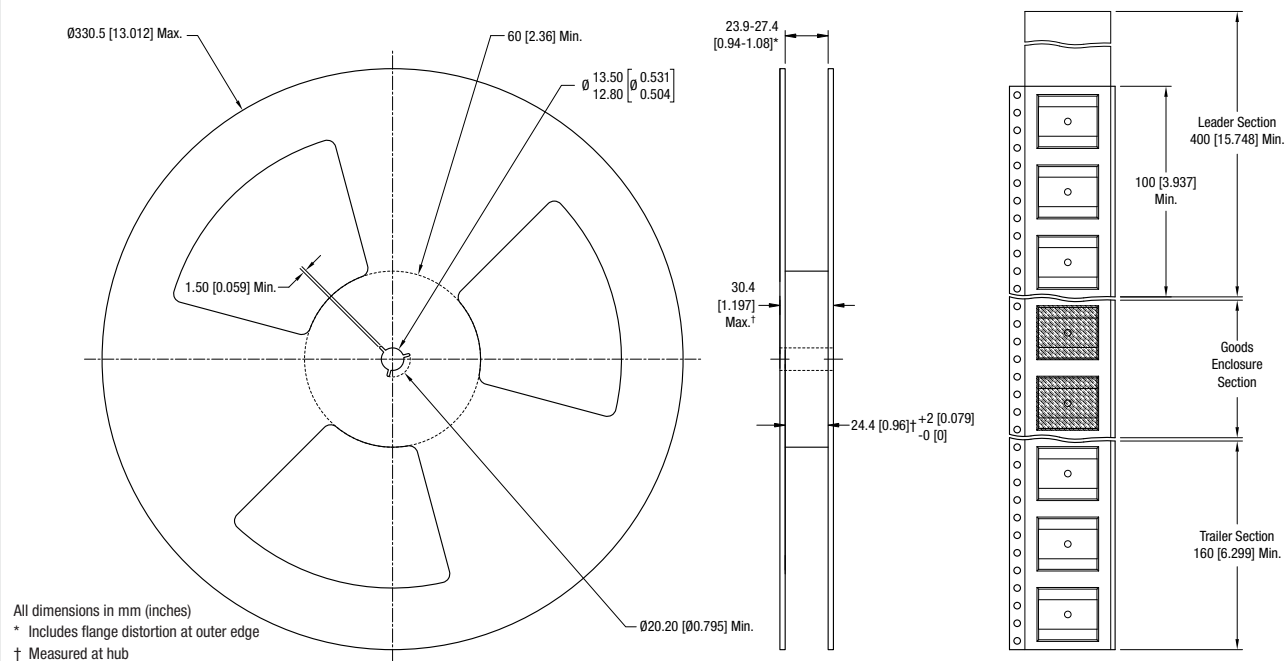
3 For further information, please visit www.murata-ps.com/rohs



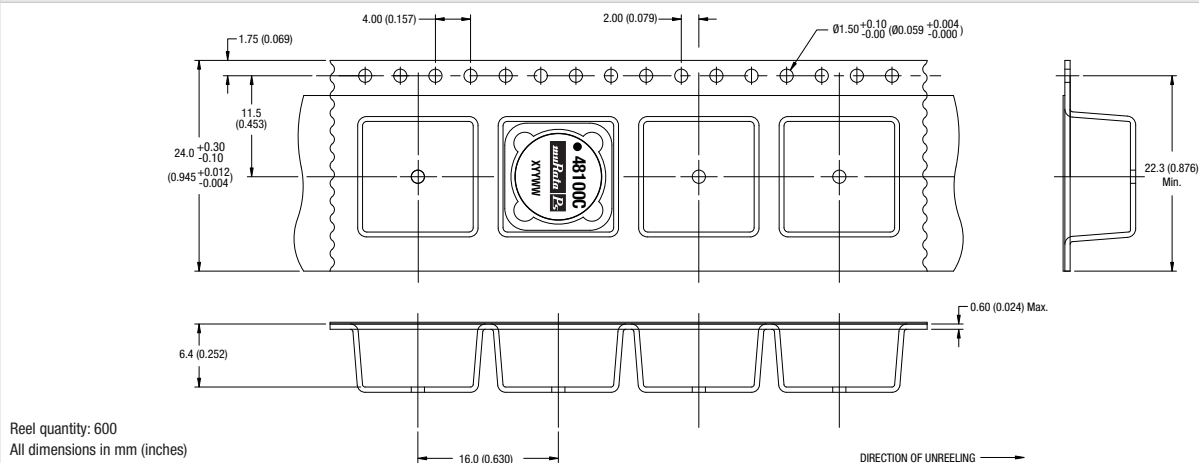
For full details go to
www.murata-ps.com/rohs

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

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.
 © 2008 Murata Power Solutions, Inc.

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