



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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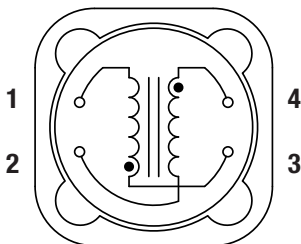
FEATURES

- RoHS compliant
- 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)

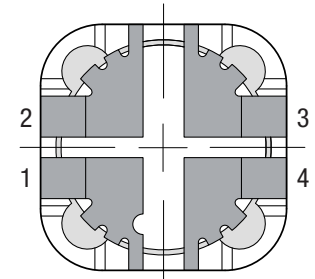
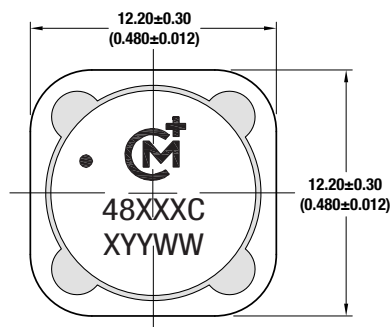


3 & 1 = Primary winding
4 & 2 = Secondary winding

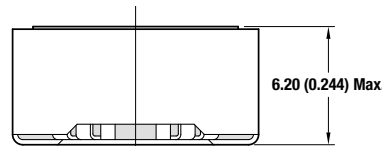
SELECTION GUIDE

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



Recommended Footprint Details



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

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.

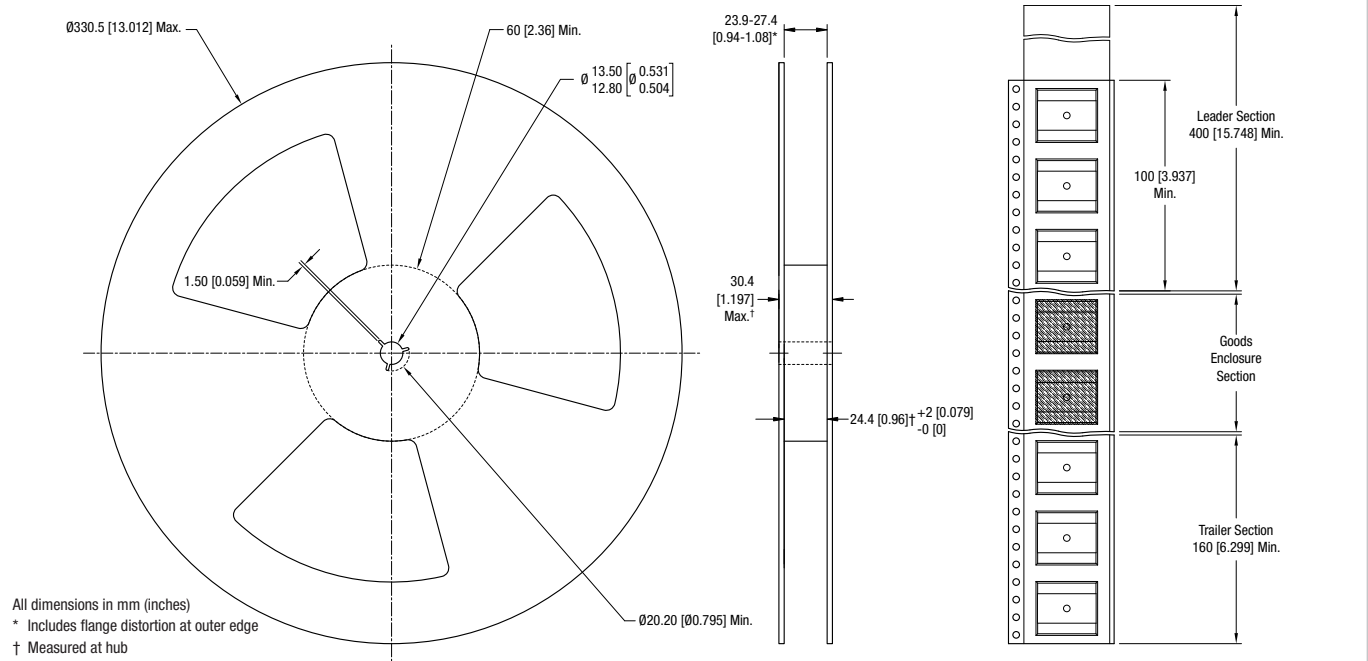
2 If current is flowing in both windings, the maximum DC current occurs when either the inductance falls to 85% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

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

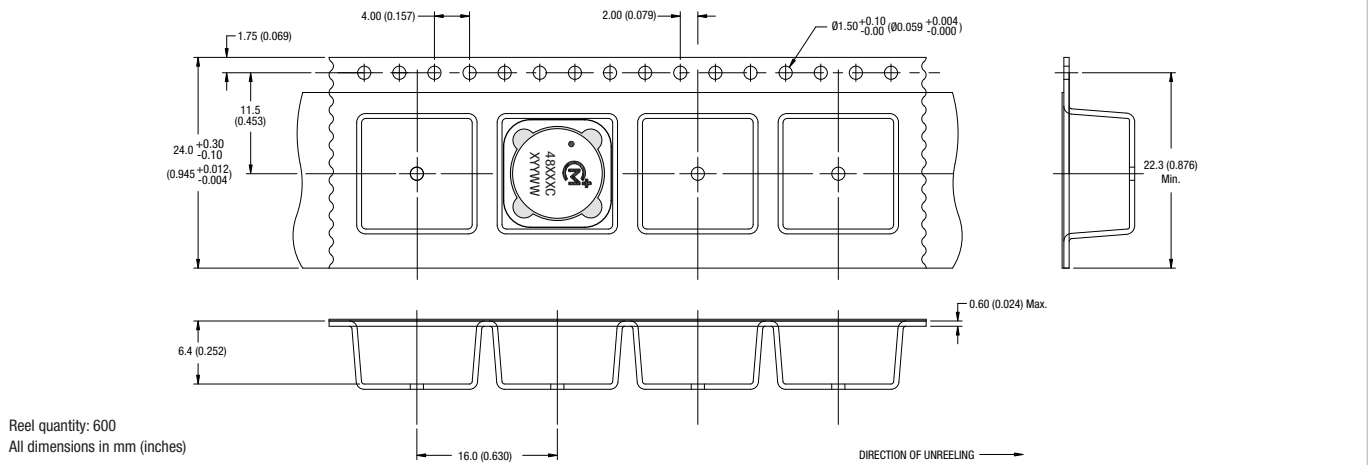


TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



TAPE OUTLINE DIMENSIONS



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 ISO 9001 and 14001 REGISTERED

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