Murata Power Solutions

4800 Series

Shielded Dual Winding Surface Mount Inductors

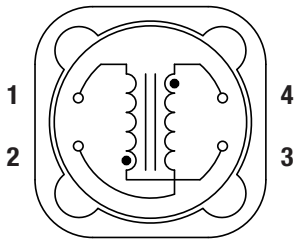
FEATURES

- RoHS compliant
- 1.0µH to 400µH[1]
- 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)



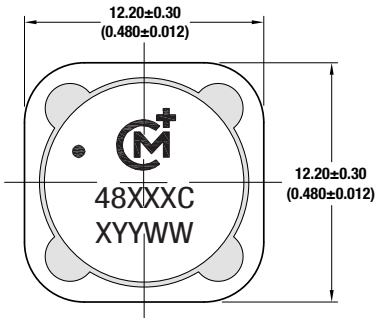
3 & 1 = Primary winding
4 & 2 = Secondary winding

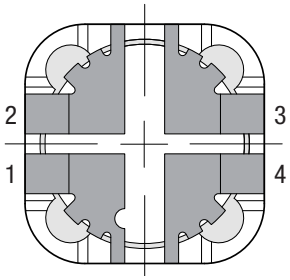
For full details go to
www.murata-ps.com/rohs

SELECTION GUIDE

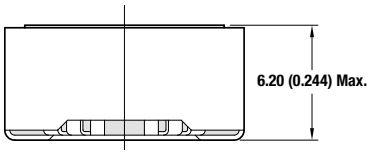
Order Code	Inductance[1] (10kHz, 100mVAC) 1&3, 2&4	Inductance Range (10kHz, 100mVAC) 1&3, 2&4	DC Current[2] (parallel connection)	DC Resistance 1&3, 2&4
	Nom.	Min. - Max.	Max.	Max.
	µH	µH	A	mΩ
481R0C	1.0	0.66 - 1.11	12.3	9.00
482R2C	2.2	1.64 - 2.73	8.30	13.5
483R3C	3.3	2.29 - 3.82	6.80	19.1
484R7C	4.7	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

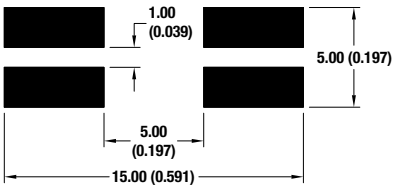
MECHANICAL DIMENSIONS





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 INFORMATION[3]

Peak reflow temperature	245˚C
Pin finish	Tin

Specifications typical at T_A = 25°C

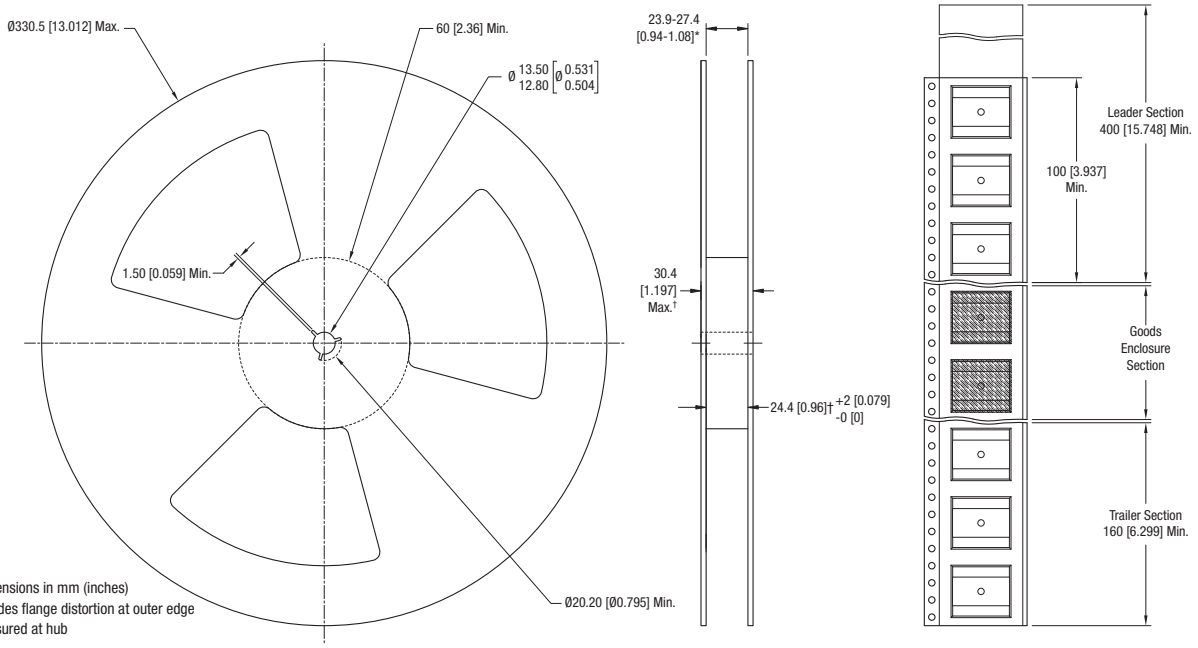
1 When connecting windings in series, inductance will be 4 times the nominal figure shown.

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

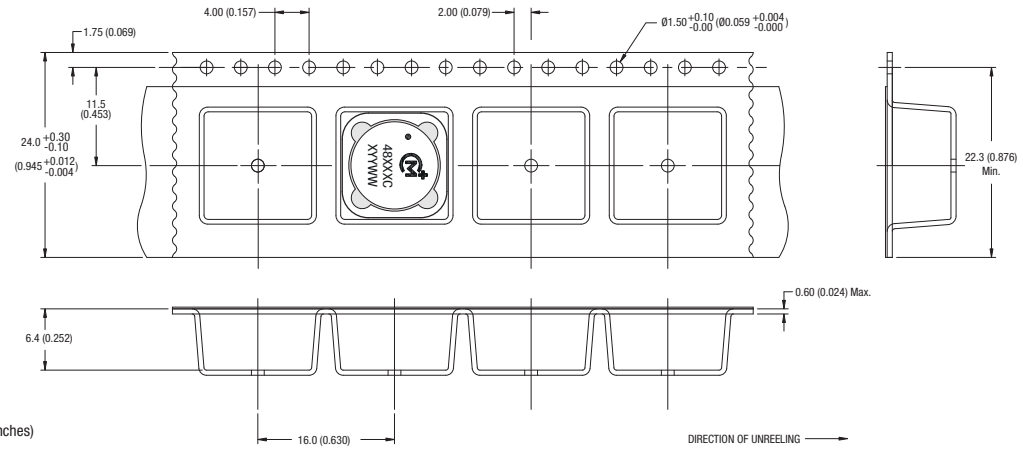
TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



All dimensions in mm (inches)
* Includes flange distortion at outer edge
† Measured at hub

TAPE OUTLINE DIMENSIONS



Reel quantity: 600
All dimensions in mm (inches)

This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy:
Refer to: http://www.murata-ps.com/requirements/

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