



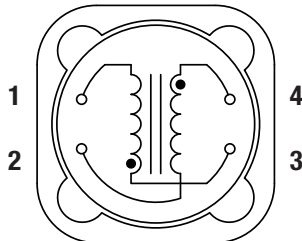
### FEATURES

- RoHS compliant
- 1.0μH to 400μH<sup>1</sup>
- 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)

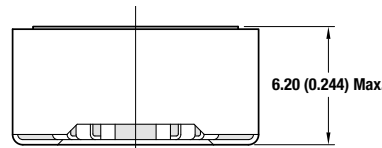
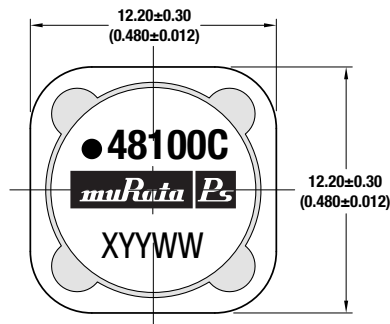


3 & 1 = Primary winding  
4 & 2 = Secondary winding

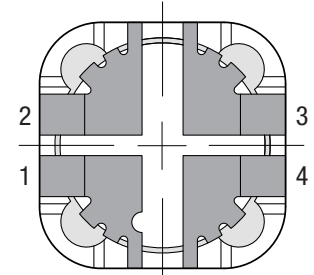
### SELECTION GUIDE

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

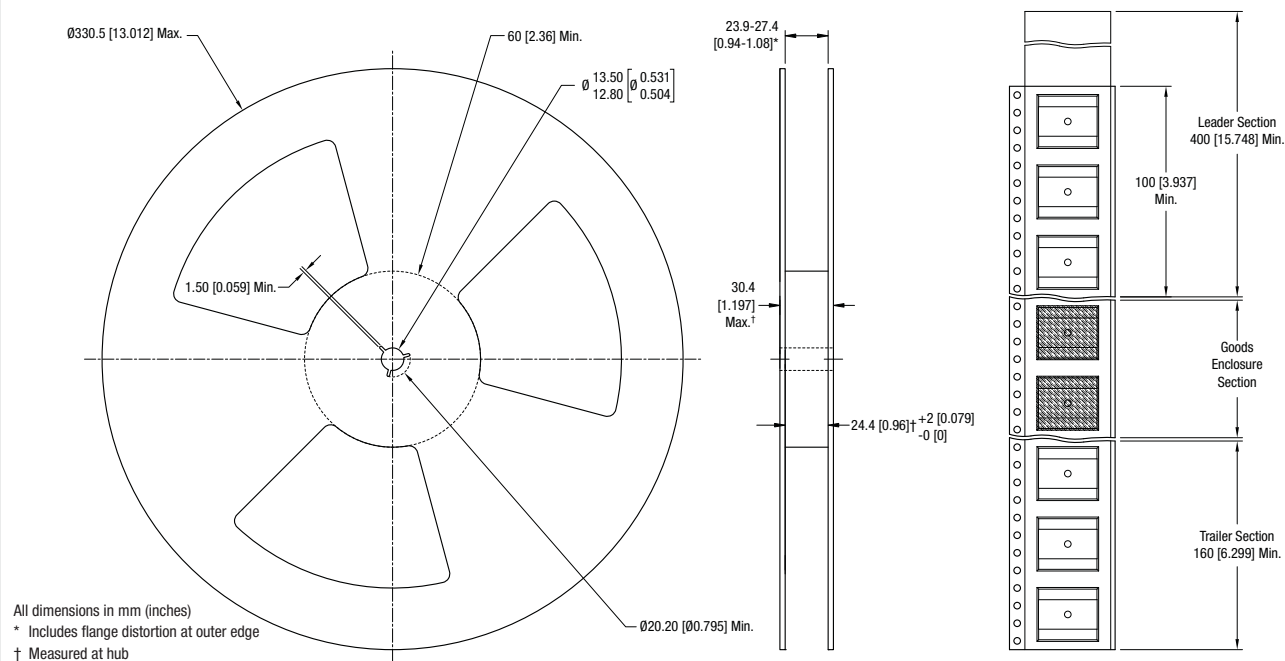
3 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)



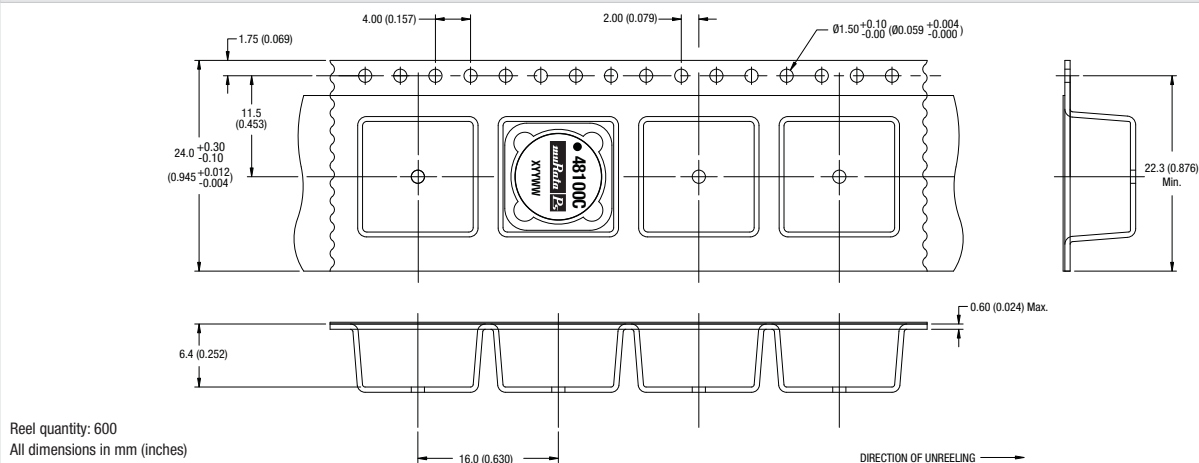
For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

## TAPE & REEL SPECIFICATIONS

## REEL OUTLINE DIMENSIONS



## TAPE OUTLINE DIMENSIONS



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**ISO 9001 and 14001 REGISTERED**

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