

Power Solutions

Dual Winding Surface Mount Inductors

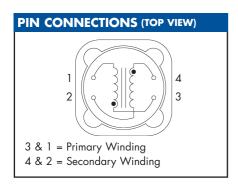


FEATURES

- 1.0µH to 400µH¹
- Up to 12.3A IDC
- Bobbin Format
- Dual Winding
- Surface Mounting
- Integral EMI Shield
- Compact Size
- Tape and Reel Packaging

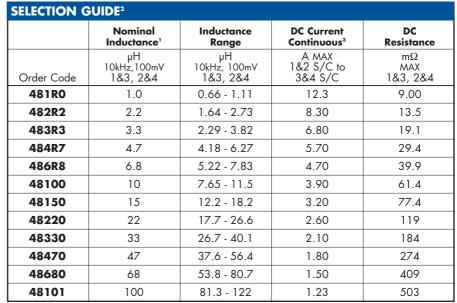
DESCRIPTION

The 4800 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.

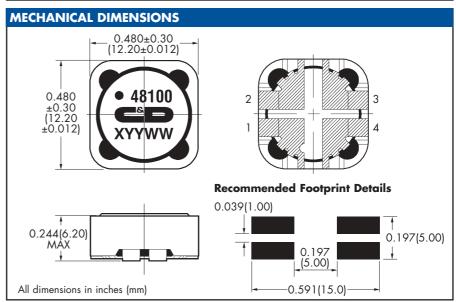


- When connecting windings in series, inductance will be 4 times the nominal figure shown.
 Specifications typical at TA=25°C
 If current is flowing in both windings the maximum
- 2 Specifications rypical at 1.42.5 C. If current is flowing in both windings the maximum DC current occurs when either the inductance falls to 85% of its nominal value or when its temperature rise reaches 40°C. whichever is sooner.

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ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	–40°C to 85°C
Storage temperature range	–40°C to 125°C



PACKAGE DETAILS					
Order Code	TYP Weight (g)	Packaging Style			
48XXX	3.1	Tape & Reel			

REEL DIMENSIONS (SEE FIG.1)

Order	Reel	Reel Outline Dimensions					
Code	Quantity	N	W1	W2	W3		
48XXX	1 600	2.362 (60.0)			0.914-1.079 (23.9-274)		

All dimensions in inches(mm). Controlling dimension in mm.

TAPE DIMENSIONS (SEE FIG.2)

Order	Tape Outline Dimensions						
Code	A0	ВО	E2	F	K0	P1	W
I 48888	0.496	0.496	0.876	0.453	0.252	0.630	0.945
	(12.6)	(12.6)	(22.3)	(11.5)	(6.4)	(16.0)	(24.0)

All dimensions in inches(mm). Controlling dimension in mm.

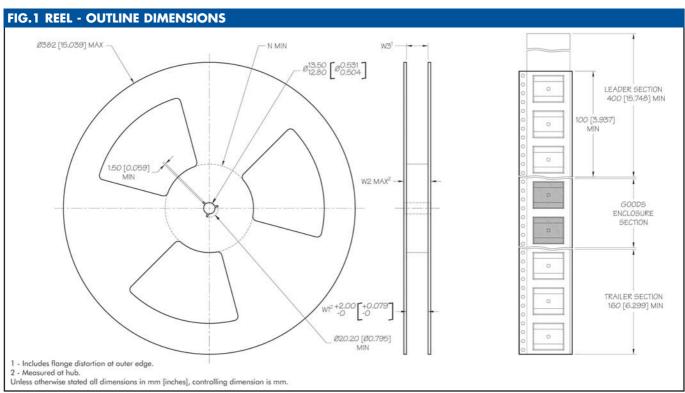
TAPE & REEL SPECIFICATIONS

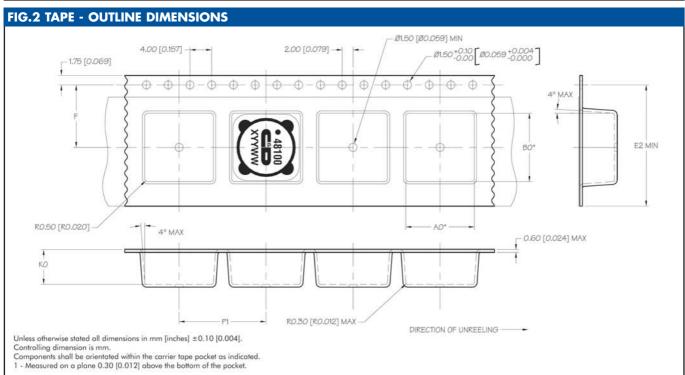
- Tape and reel specifications shall conform with standards IEC 60286-3 & EIA-481-C
- Peel force and speed of cover tape;
- 0.1-1.3N @300±10mm/MIN, the angle between the cover tape during peel-off and the direction of unreeling shall be 165-180°.
- The break force of the cover tape shall be 10N MIN.
- The carrier tape leader section shall include a minimum 100mm length of empty carrier tape sealed by the cover tape (see FIG. 1).
- The maximum number of missing components shall be one or 0.1%, whichever is greater. In no case shall there be two or more consecutive components missing.
- The trailer section shall consist entirely of empty carrier tape sealed by the cover tape.
- The carrier tape shall be released from the reel hub as the last portion of the carrier tape unwinds from the reel.
- Sprocket hole pitch tolerance over any 10 pitches ±0.2mm.
- Carrier tape camber shall not exceed 1 mm/250mm in either direction.



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

 Specifications typical at TA=25°C
 If current is flowing in both windings the maximum
- 2 Specifications typical at 14=25°C.
 3 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.

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