Dual Winding Surface Mount Inductors



FEATURES

- 1.0µH to 400µH¹
- Up to 9.5A IDC
- Bobbin Format
- Dual Winding
- Surface Mounting
- Integral EMI Shield
- Compact Size
- Tape and Reel Packaging

DESCRIPTION

The 4700 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.

PIN CONNECTIONS (TOP VIEW) 1 4 3 2 3 & 1 = Primary Winding 4 & 2 = Secondary Winding

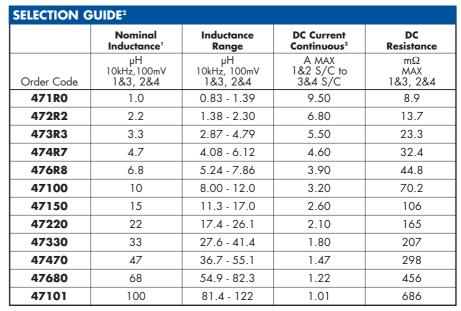
- When connecting windings in series, inductance
- will be 4 times the nominal figure shown.

 Specifications typical at TA=25°C

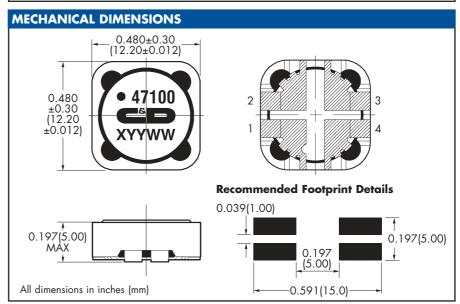
 If current is flowing in both windings the maximum

 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			



PACKAG	E DETAILS	
Order Code	TYP Weight (g)	Packaging Style
47XXX	2.5	Tape & Reel

REEL DIMENSIONS (SEE FIG. 1) Reel Outline Dimensions Reel Code Quantity N W1 W2 W3 2.362 0.961 1.197 0.914-1.079 **⊿**7XXX 750

(60.0) | (24.4) | (30.4) | (23.9-27.4)

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
17777	0.496	0.496	0.876	0.453	0.205	0.630	0.945
	(12.6)	(12.6)	(22.3)	(11.5)	(5.2)	(16.0)	(24.0)

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

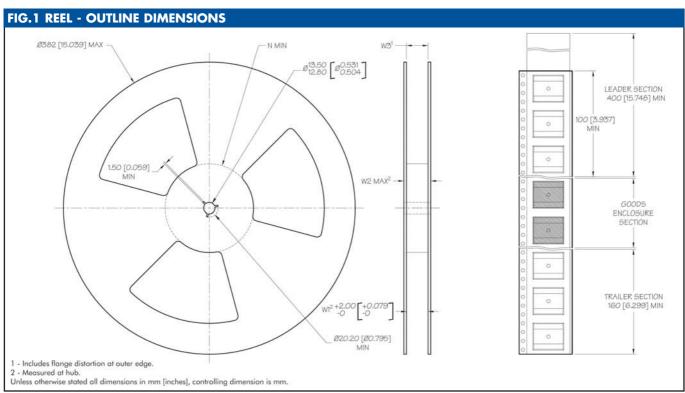
TAPE & REEL SPECIFICATIONS

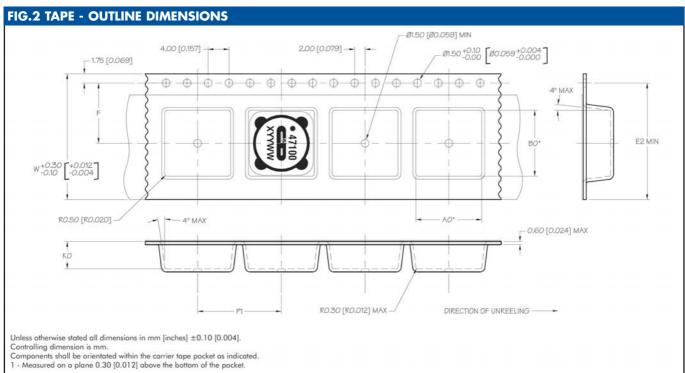
- Tape and reel specifications shall conform with standards IEC 60286-3 & EIA-481-C
- Peel force and speed of cover tape;
- 0.1-1.3N @300 \pm 10mm/MIN, the angle between the cover tape during peel-off and the direction of unreeling shall be 165-180°.
- The break force of the cover tape shall be 10N MIN.
- 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 1mm/250mm in either direction.



Power Solutions

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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 IA=25°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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