







#### **Description**

The 11302-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package for applications in the 225 - 400 MHz band. The 11302-3 is ideal for balanced amplifiers and signal distribution and is an ideal solution for the ever increasing demands for smaller printed circuit boards. Parts have been run through rigorous qualification and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates.

### Features:

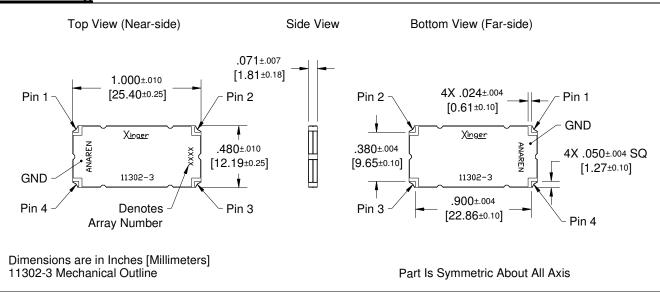
- 225 400 MHz
- Low loss
- High Isolation
- 90<sup>O</sup> Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

## **ELECTRICAL SPECIFICATIONS\*\***

	Frequency	Isolation	Insertion Loss	VSWR						
	MHz	dB Min	dB Max	Max:1						
	225-400	15	0.55	1.40						
ı										
	Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.					
	_		Power  Ave. CW Watts	<b>⊕JC</b> <i>ºC/ Watt</i>						
	Balance	Balance			Temp.					

<sup>\*\*</sup>Specification based on performance of unit properly installed on microstrip printed circuit boards with 50  $\Omega$  nominal impedance. Specifications subject to change without notice.

## **Outline Drawing**





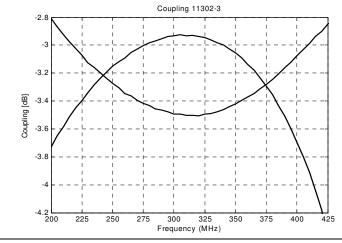


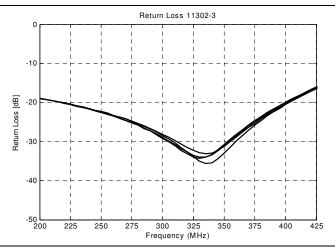
Available on Tape and Reel For Pick and Place Manufacturing. USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

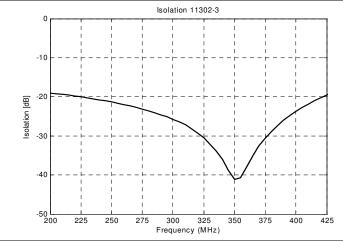


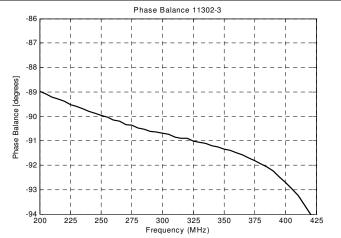


## Typical Performance: 200 MHz to 425 MHz.



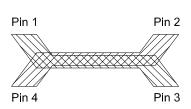






**Mounting Footprint** 

## Pin Configuration



Hybrid Coupler Pin Configruation					
	Pin 1	Pin 2	Pin 3	Pin 4	
Configuration #1	Input	Isolated	-3dB, -90°	-3dB, 0°	
Configuration #2	Isolated	Input	-3dB, 0°	-3dB, -90°	
Configuration #3	-3dB, -90°	-3dB, 0°	Input	Isolated	
Configuration #4	-3dB, 0°	-3dB, -90°	Isolated	Input	

## To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part Part Is Symmetric About All Axis Mutiple plated thru holes to ground .376 [9.55] [0.86] 4X .063 SQ 4X 50 Ω Transmission Line Dimensions are in Inches [Millimeters] 11302-3 Mounting Footprint

USA/Canada: Toll Free: Europe:

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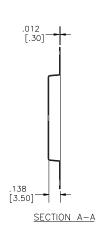
Available on Tape and Reel For Pick and Place Manufacturing.

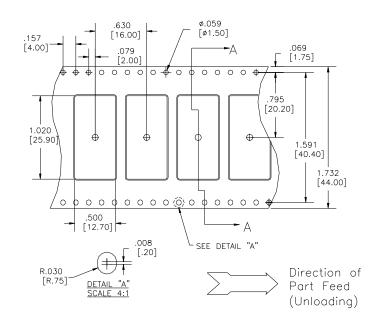


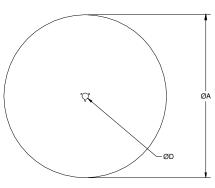


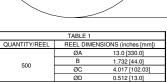
### **PACKAGING**

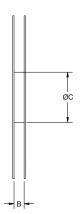
Parts are available in both reel and tube. Packaging follows EIA 481-2. Parts are provided in tape and reel as shown below. Minimum order quantities are 500 per reel and 19 per tube.













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# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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