



Hybrid Couplers 3 dB, 90°



Description

The 11305-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering 1.0 to 2.0 GHz. The 11305-3 is ideal for balanced amplifiers and signal distribution and can be used in most high power designs. Parts have been subjected to rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10 and polyamide.

Features:

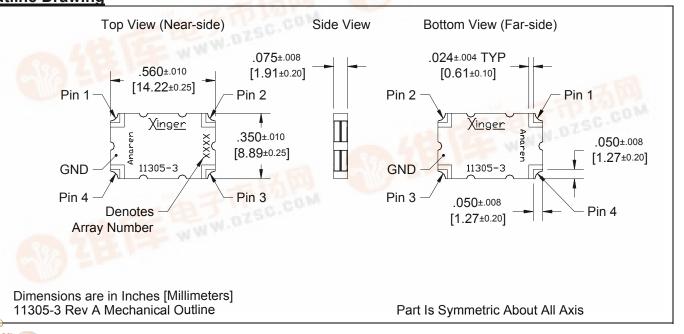
- 1.0 2.0 GHz
- **Low Loss**
- **High Isolation**
- 90° Quadrature
- **Surface Mountable**
- **Tape And Reel**
- Convenient Package
- 100% Tested

ELECTRICAL SPECIFICATIONS**

ELECTRICAL OF ECITION							
Frequency	Isolation	Insertion Loss	VSWR				
GHz	dB Min	dB Max	Max:1				
1.0 – 2.0	20	0.45	1.30				
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.			
_		Power Ave. CW Watts	ΘJC °C/Watt	•			

^{**}Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

Outline Drawing





Available on Tape nd Reel For Pick and

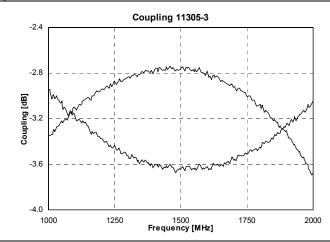
USA/Canada: Toll Free:

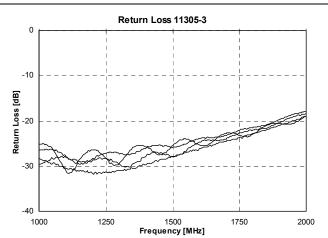
(315) 432-8909 (800) 544 - 2414

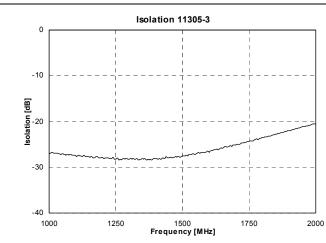


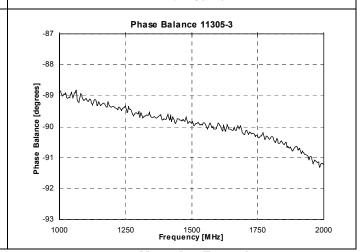


Typical Performance: 1.0 GHz. to 2.0 GHz.

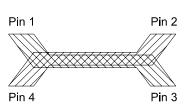






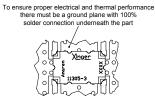


Pin Configuration

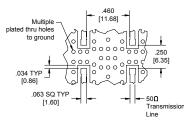


Hybrid Coupler Pin Configruation						
	Pin 1	Pin 2	Pin 3	Pin 4		
Configuration #1	Input	Isolated	-3dB, -90°	-3dB, 0°		
Configuration #2	Isolated	Input	-3dB, 0°	-3dB, -90°		
Configuration #3	-3dB, -90°	-3dB, 0°	Input	Isolated		
Configuration #4	-3dB, 0°	-3dB, -90°	Isolated	Input		

Mounting Footprint



Part Is Symmetric About All Axis



Dimensions are in Inches [Millimeters] 11305-3 Rev A Mounting Footprint