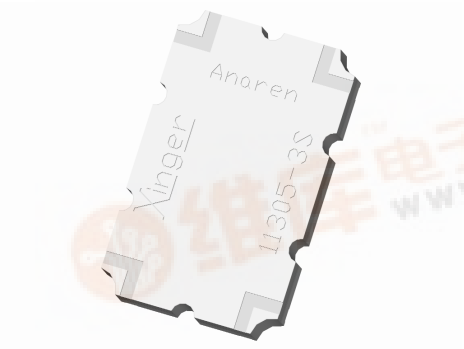
Xinger®

Hybrid Couplers
3 dB, 90°



Description

The 11305-3S is a low profile 3dB hybrid coupler in an easy to use surface mount package covering 1.0 to 2.0 GHz. The 11305-3S 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:

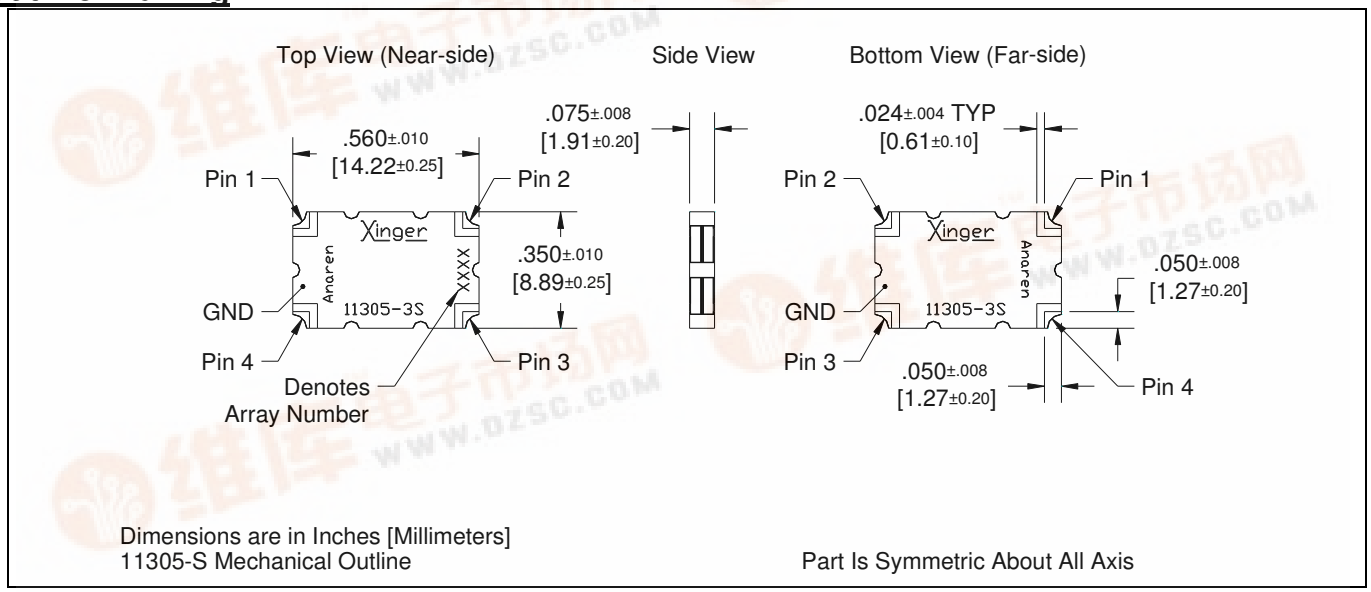
- 1.0 – 2.0 GHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested
- Lead Free

ELECTRICAL SPECIFICATIONS**

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.**
dB Max	*Degrees*	*Ave. CW Watts*	*ºC/Watt*	*ºC*
± 0.55	± 3	60	18.6	-55 to +85

**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



Dimensions are in Inches [Millimeters]
11305-S Mechanical Outline

Part Is Symmetric About All Axis

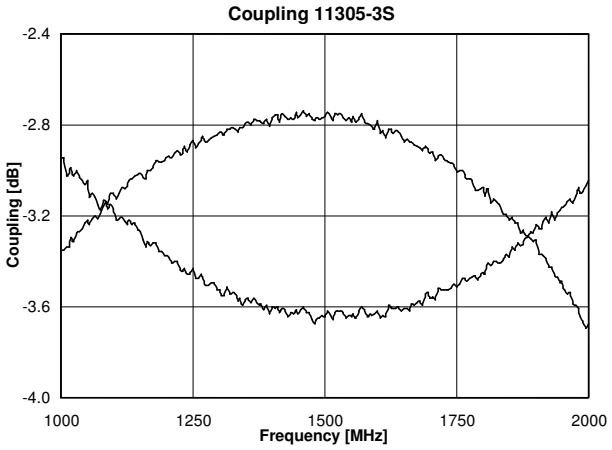
Available on Tape and Reel For Pick and

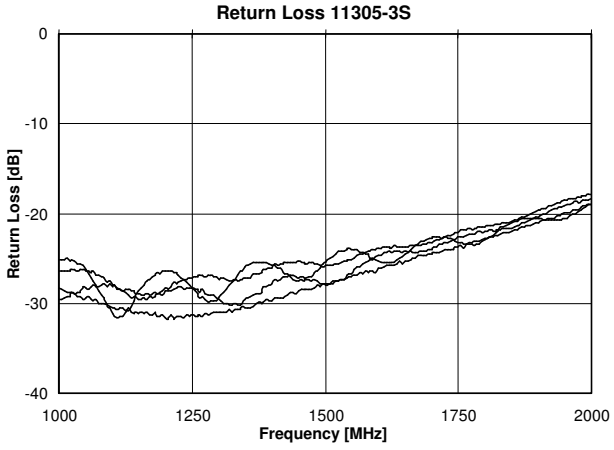
USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414

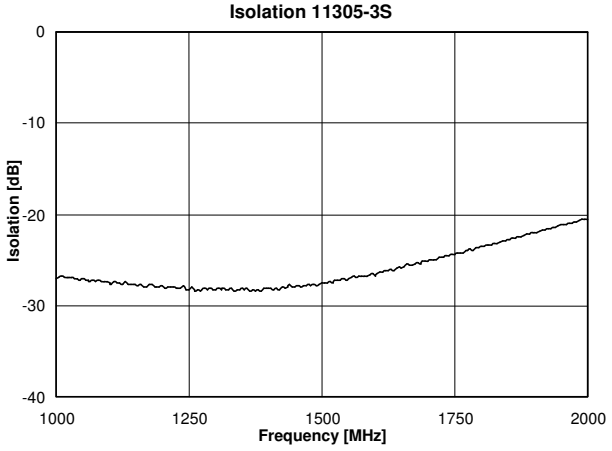
Model 11305-3S

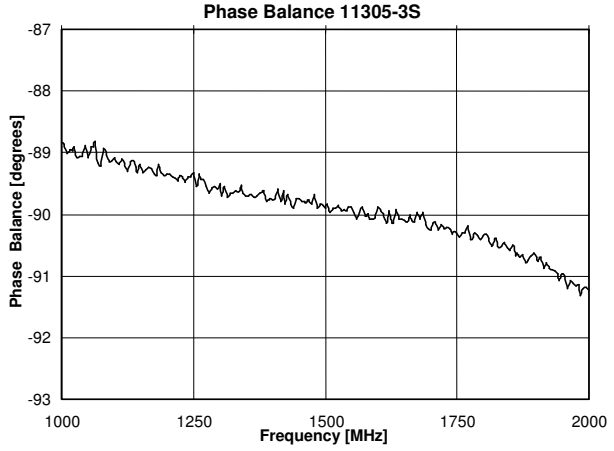
Rev. A

Typical Performance: 1.0 GHz. to 2.0 GHz.

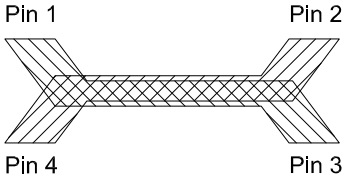






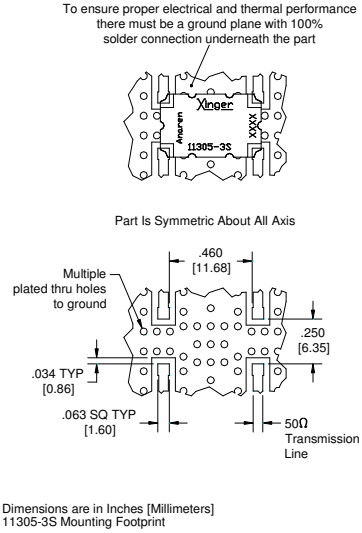


Pin Configuration



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



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

USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414

Available on Tape and Reel For Pick and Place