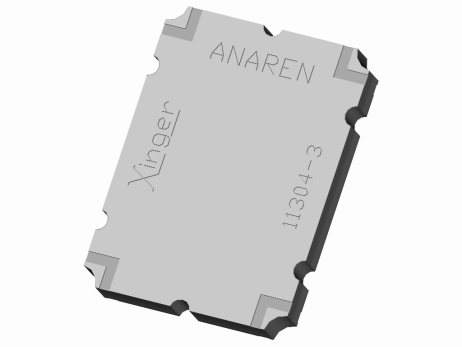
Model 11304-3

Rev. B

Xinger®

Hybrid Couplers
3 dB, 90°



Description

The 11304-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering 500 to 1000 MHz. The 11304-3 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 polyimide.

Features:

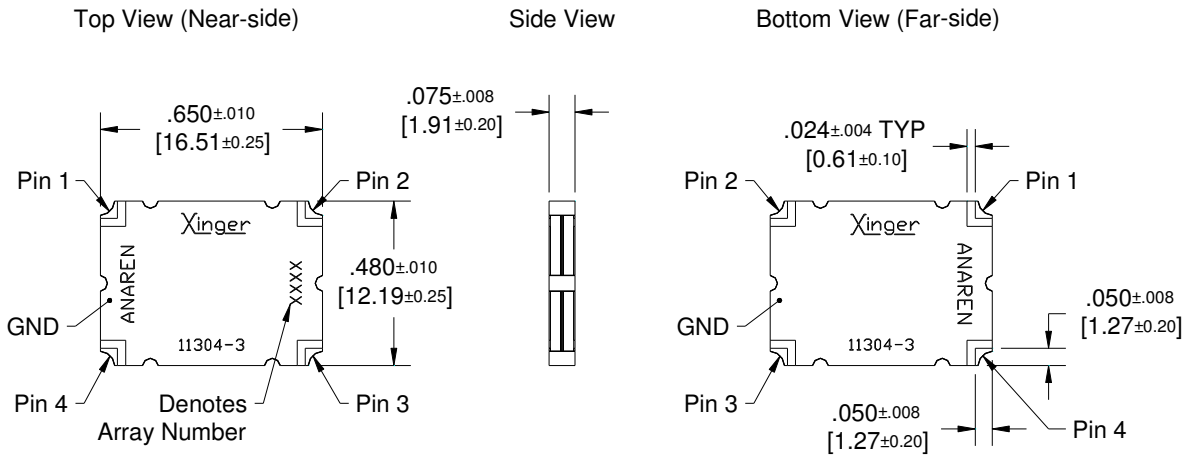
- **500 - 1000 MHz**
- **Low loss**
- **High Isolation**
- **90° Quadrature**
- **Surface Mountable**
- **Tape And Reel**
- **Convenient Package**
- **100% Tested**

ELECTRICAL SPECIFICATIONS**

Frequency	Isolation	Insertion Loss	VSWR	
MHz	*dB Min*	*dB Max*	*Max:1*	
500 – 1000	20	0.35	1.25	
Amplitude Balance	**Phase Balance**	**Power**	**ΘJC**	**Operating Temp.**
dB Max	*Degrees*	*Ave. CW Watts*	*ºC/ Watt*	*ºC*
± 0.50	± 3	100	8.6	-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]
11304-3 Rev A Mechanical Outline

Part Is Symmetric About All Axis

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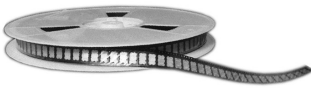
What'll we think of next



Available on Tape and Reel For Pick and Place Manufacturing.

USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

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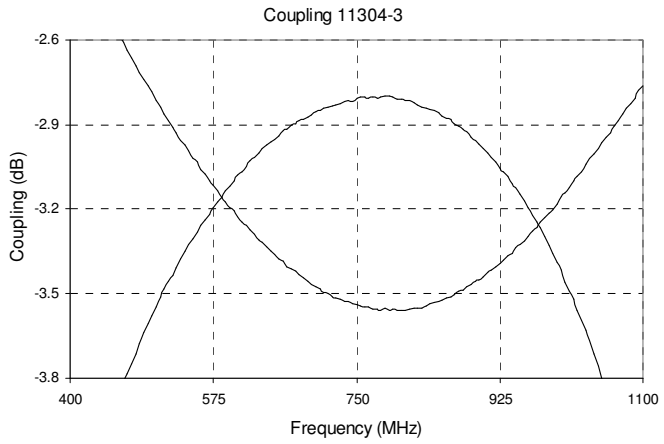
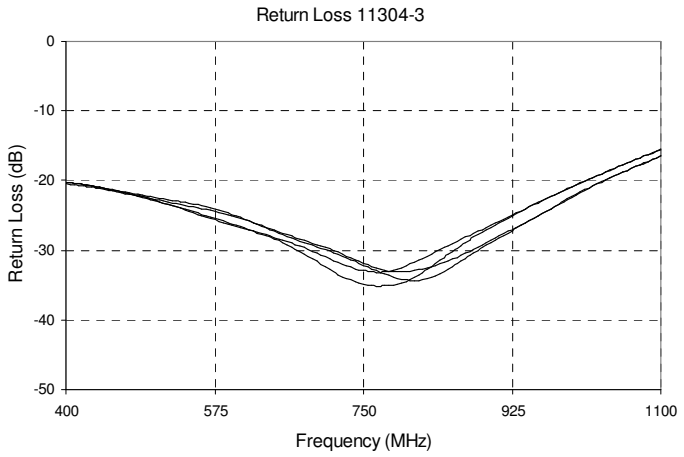
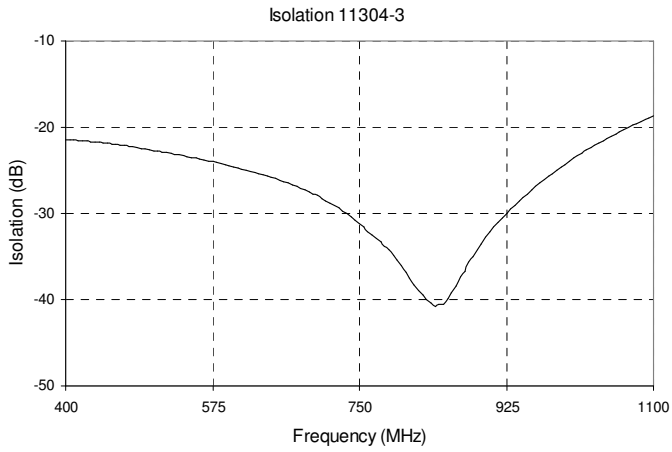
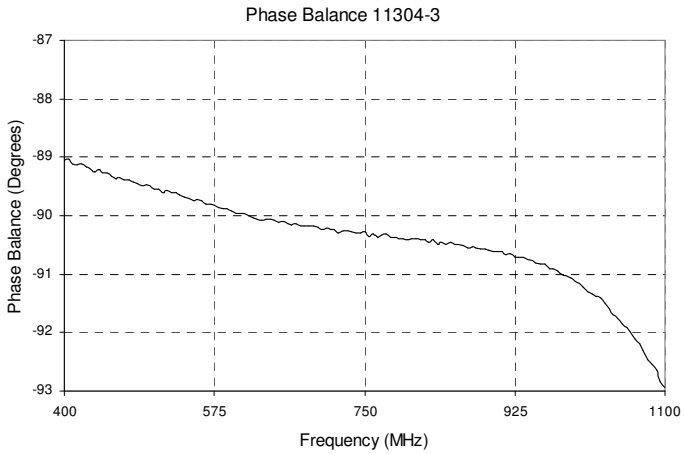
Typical Performance: 500 MHz. to 1000 MHz.

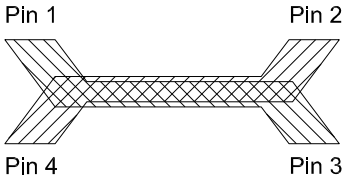






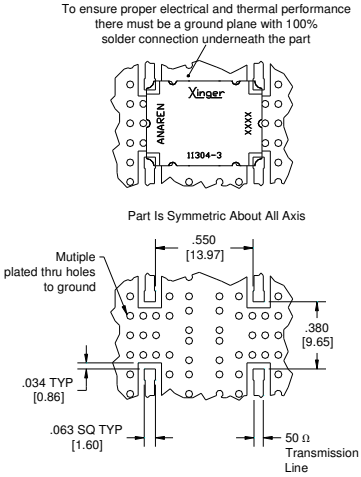


Pin Configuration



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]
11304-3 Rev A Mounting Footprint

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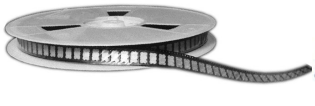

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