







#### **Description**

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

## Features:

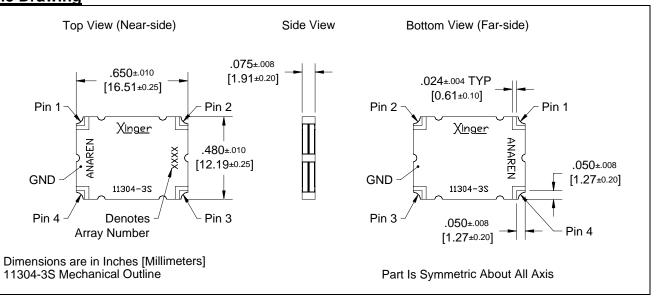
- 500 1000 MHz
- Low loss
- · High Isolation
- 90<sup>0</sup> Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested
- Lead Free

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

	ELECTRICAL OF EGIL TOTALIONS										
	Frequency	Isolation	Insertion Loss	VSWR							
	MHz	dB Min	dB Max	Max:1							
	500 – 1000	20	0.35	1.25							
	Amplitude Balance	Phase	Power	ΘJC	Operating						
1	Dalance	Balance		• • • • • • • • • • • • • • • • • • • •	Temp.						
	dB Max	Degrees	Ave. CW Watts	°C/ Watt	remp. ℃						

<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**







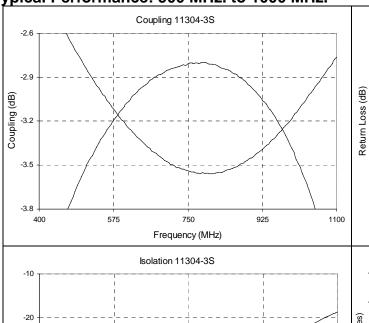
Available on Tape and Reel For Pick and Place Manufacturing.

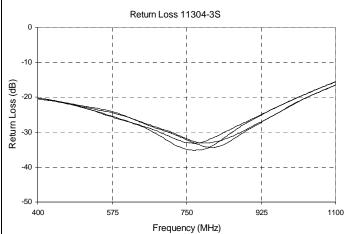
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

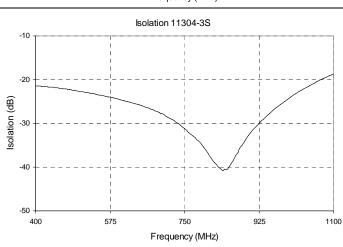


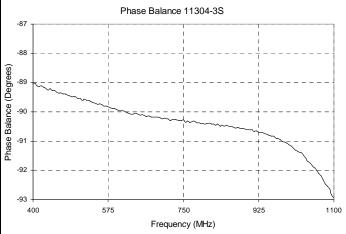


# Typical Performance: 500 MHz. to 1000 MHz.



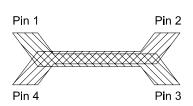






**Mounting Footprint** 

### **Pin Configuration**



Ну	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		

# Part Is Symmetric About All Axis Mutiple plated thru holes to ground 00 000

Dimensions are in Inches [Millimeters] 11304-3S Mounting Footprint

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