







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:

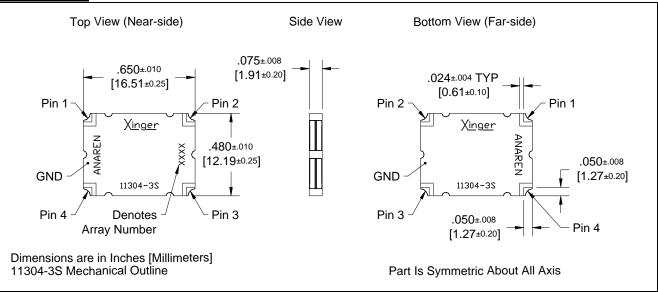
- 500 1000 MHz
- Low loss
- High Isolation
- 90^O Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested
- Lead Free

ELECTRICAL SPECIFICATIONS**

<u>LEEGTRIOAL OF LORI IOATIONO</u>									
Frequency	Isolation	Insertion Loss	VSWR						
MHz	dB Min	dB Max	Max:1						
500 – 1000	20	0.35	1.25						
Amplitude Balance	Phase Balance	Power	ΘЈС	Operating Temp.					
dB Max	Degrees	Ave. CW Watts	℃/ Watt	°C					
± 0.55	± 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







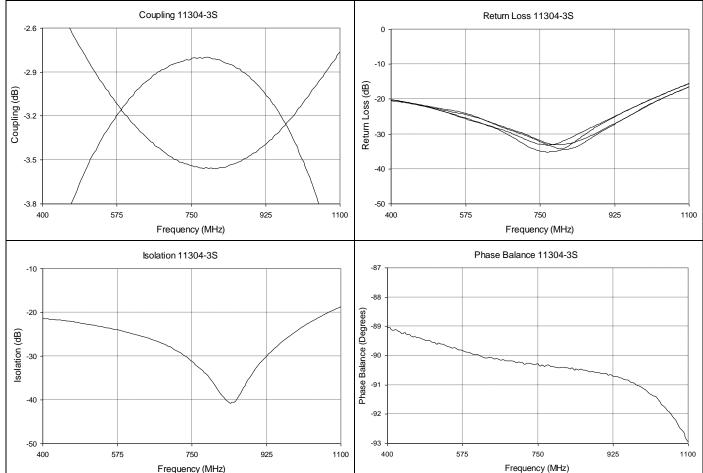
Available on Tape and Reel For Pick and Place Manufacturing.

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

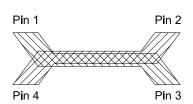




Typical Performance: 500 MHz. to 1000 MHz.

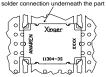


Pin Configuration



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			

Mounting Footprint To ensure proper electrical and thermal performar there must be a ground plane with 100% solder connection underneath the nart



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

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