







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:

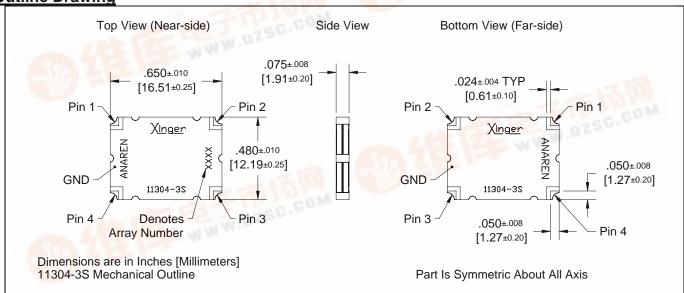
- 500 1000 MHz
- Low loss
- **High Isolation**
- 90^o Quadrature
- **Surface Mountable**
- Tape And Reel
- **Convenient Package**
- 100% Tested
- **Lead Free**

FLECTRICAL SPECIFICATIONS**

LEEGTRICAL SI EGII ICATIONS								
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	°C/ 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







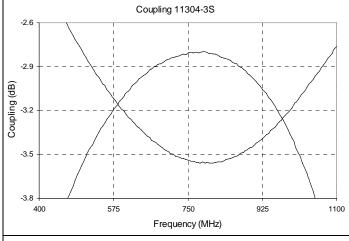
Available on Tape nd Reel For Pick and

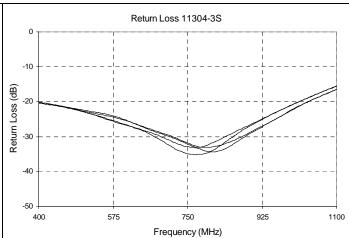
USA/Canada: Toll Free:

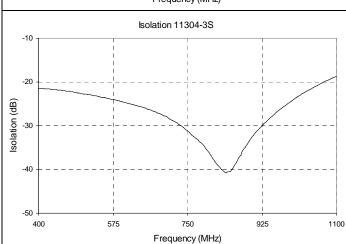
(315) 432-8909 (800) 544-2414

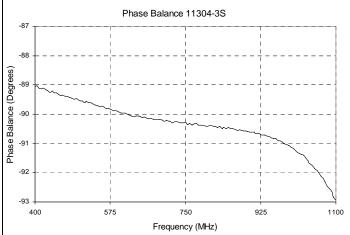


Typical Performance: 500 MHz. to 1000 MHz.

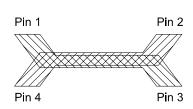








Pin Configuration



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			

