

Model 1F1304-3



Hybrid Couplers 3 dB, 90°



Description

The 1F1304-3S is a low profile 3dB hybrid coupler in an easy to use surface mount package covering 470 to 860 MHz. The 1F1304-3S 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. Available in both 5 of 6 tin lead (1F1304-3) and 6 of 6 tin immersion (1F1304-3S) RoHS compliant finishes.

Features:

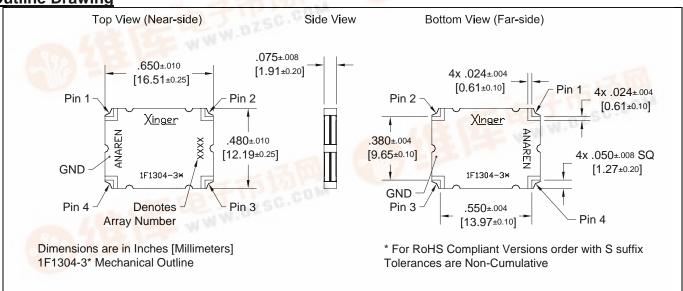
- 470 860 MHz
- Low loss
- **High Isolation**
- 90^o Quadrature
- **Surface Mountable**
- Tape And Reel
- **Convenient Package**
- 100% Tested
- Lead Free Available

ELECTRICAL SPECIFICATIONS**

Frequency	Isolation	Insertion Loss	VSWR			
MHz	dB Min	dB Max	Max:1			
470 - 860	21	0.40	1.25			
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.		
dB Max	Degrees	Ave. CW Watts	°C/ Watt	°C		
± 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







Available on Tape nd Reel For Pick and

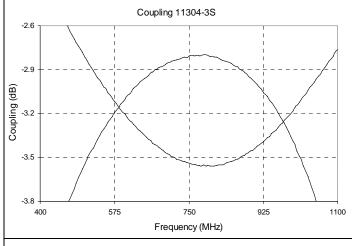
USA/Canada: Toll Free:

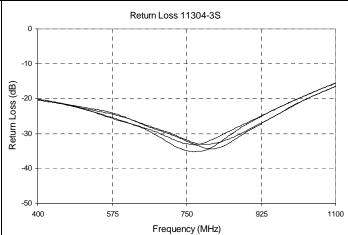
(315) 432-8909 (800) 544-2414

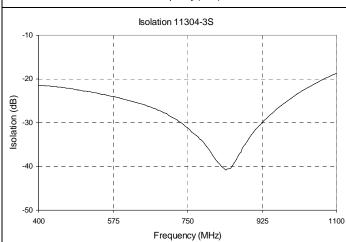


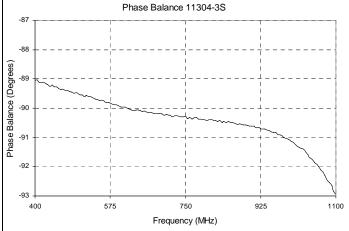


Typical Performance: 400 MHz. to 900 MHz.

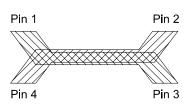








Pin Configuration



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			

