

# Xinger III

# Hybrid Coupler 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:

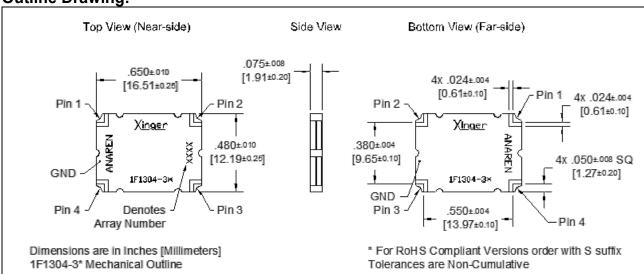
- 470 860 MHz
- Low loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested
- Lead Free Available

### **Detailed 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	℃				
± 0.50	± 3	100	8.6	-55 to +85				

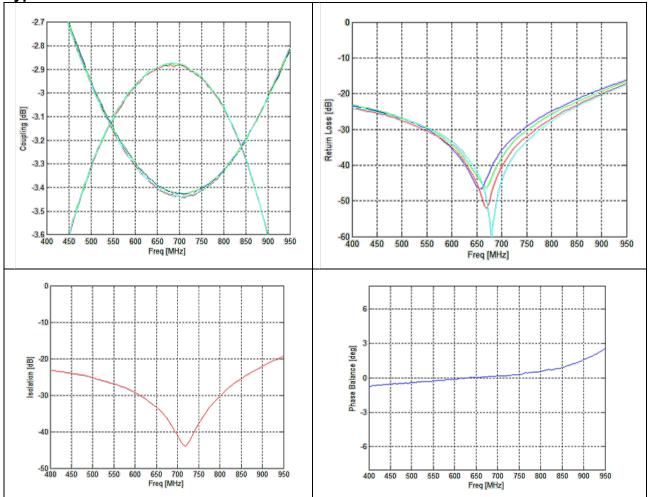
<sup>\*\*</sup>Specification based on performance of unit properly installed on microstrip printed circuit boards with 50  $\Omega$  nominal impedance. Specifications subject to change without notice

#### **Outline Drawing:**





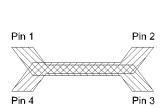




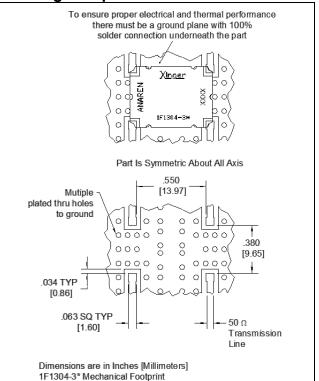


## **Pin Configuration**

## **Mounting Footprint**



Ну	gruation			
	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



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