







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:

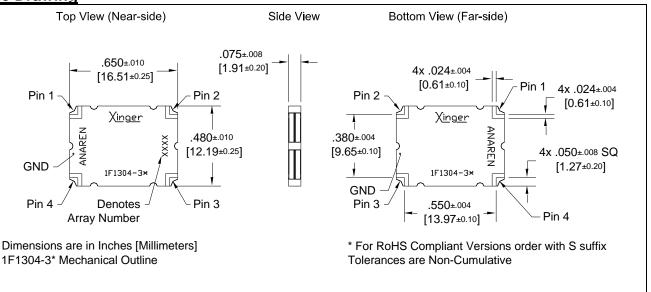
- 470 860 MHz
- Low loss
- High Isolation
- 90^O Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested
- Lead Free Available

ELECTRICAL SPECIFICATIONS**

ELECTRICAL OF LOW ICATIONS									
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	℃/ 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







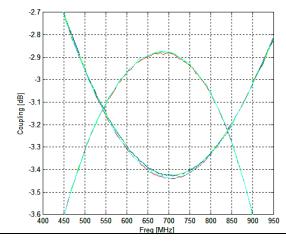
Available on Tape and Reel For Pick and Place Manufacturing.

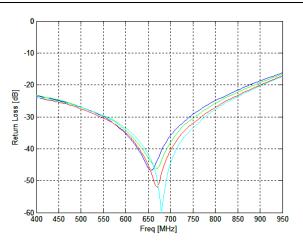
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

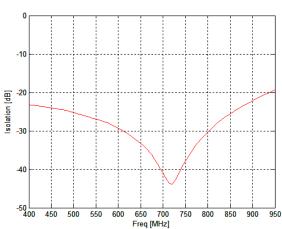


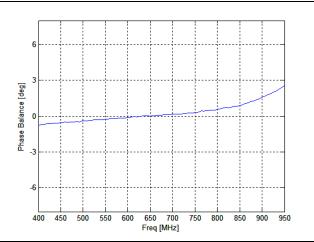


Typical Performance: 400 MHz. to 950 MHz.



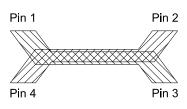




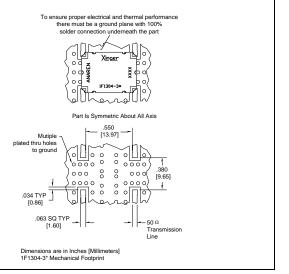


Mounting Footprint

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		



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Available on Tape and Reel For Pick and Place Manufacturing.



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