



Hybrid Couplers 3 dB, 90°



Description

The 1W1305-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering DCS, PCS, W-CDMA, UMTS and other 3G applications. The 1W1305-3 is ideal for balanced amplifiers and signal distribution and can be used in most high power designs. The 1W1305-3 has modified RF pads that can handle higher peak power levels than the standard Xinger designs. Also, the new RF pad improves manufacturing reliability and minimizes the risk of failures due to misalignment from pick and place equipment. 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 polyamide.

ELECTRICAL SPECIFICATIONS**

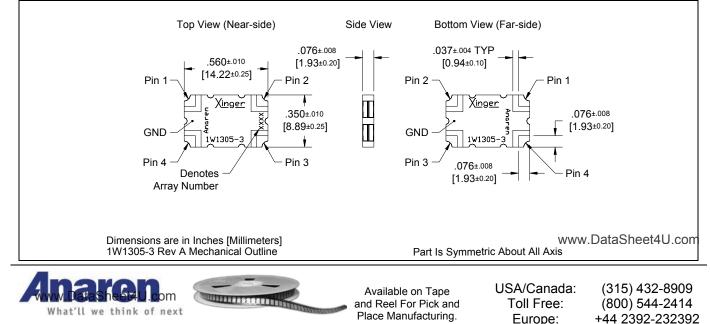
e <u>atures:</u> 1.6 – 2.4 GHz	Frequency	Isolation	Insertion Loss	VSWR	
Low Loss High Isolation 90° Quadrature Surface Mountable Higher Peak Power Tape And Reel Convenient Package 100% Tested	GHz	dB Min	dB Max	Max:1	
	1.93 – 1.99	23	0.23	1.17	
	2.1 – 2.17	23	0.25	1.17	
	1.8 – 2.2	20	0.25	1.20	
	1.6 – 2.4	18	0.30	1.25	
	Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.
	dB Max	Degrees	Ave. CW Watts	°C/Watt	°C
	± 0.20	± 2	100	14.6	-55 to +85
	± 0.20	± 2	100	14.6	-55 to +85
	± 0.25	± 3	100	14.6	-55 to +85
	± 0.40	± 3	100	14.6	-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

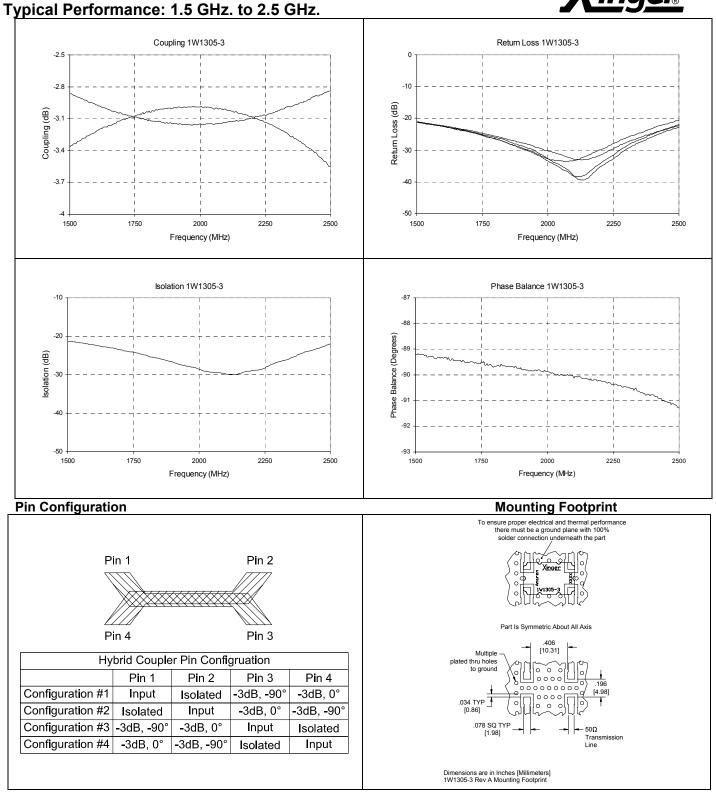
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Xinger.



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Available on Tape and Reel For Pick and Place Manufacturing.

