



Hybrid Coupler 3 dB, 90°



Description:

The 1E1305-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering the Japanese PDC bandwidth. The 1E1305-3 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 polyamide.

Detailed Electrical Specifications:

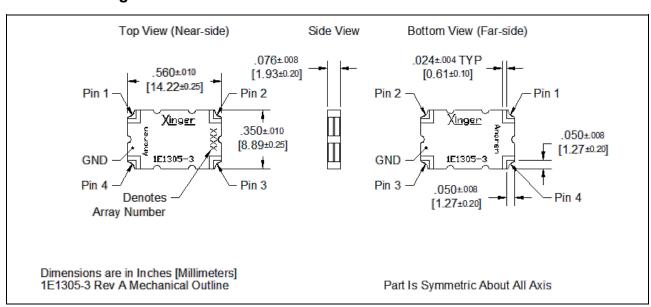
Features:

- 1.20 1.85 GHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Frequency	Isolation	Insertion Loss	VSWR	
GHz	dB Min	dB Max	Max:1	
1.4 – 1.7	25	0.25	1.15	
1.20 - 1.85	21	0.25	1.20	
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.
dB Max	Degrees	Ave. CW Watts	°C/Watt	°C
± 0.30	± 3	100	13.6	-55 to +85
± 0.50	± 4	100	13.6	-55 to +85

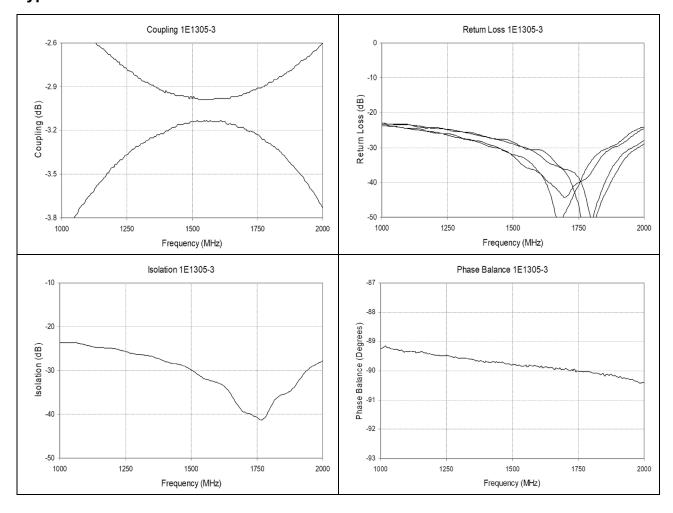
^{**}Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. *Specifications subject to change without notice.

Outline Drawing:





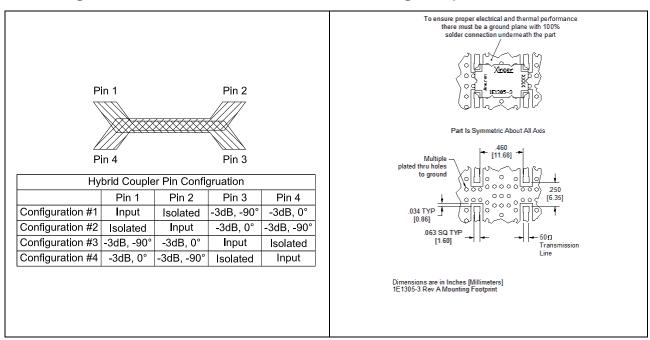
Typical Performance: 1.0 GHz. to 2.0 GHz.





Pin Configuration

Mounting Footprint



Contact us:

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