



Hybrid Coupler 3 dB. 90°



Description:

The 11303-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering the NMT 450 band. The 11303-3 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.

Features:

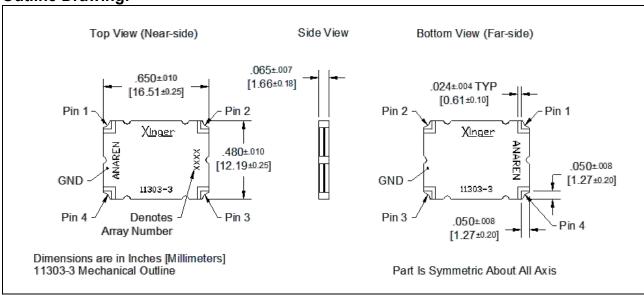
- 380 520 MHz
- Low loss
- High Isolation
- 90^O Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Detailed Electrical Specifications:

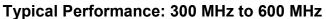
Frequency	Isolation	Insertion Loss	VSWR
MHz	dB Min	dB Max	Max:1
380 – 520	20	0.35	1.28
Amplitude Balance dB Max	Phase Balance Degrees	Power Ave. CW Watts @85°C	Operating Temp. ℃

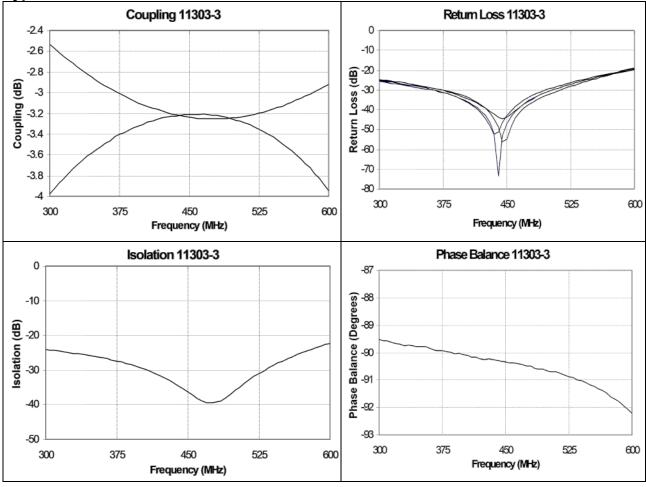
^{**}Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. *Specifications subject to change without notice.

Outline Drawing:





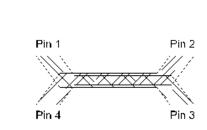




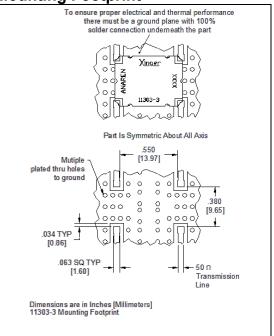


Pin Configuration

Mounting Footprint

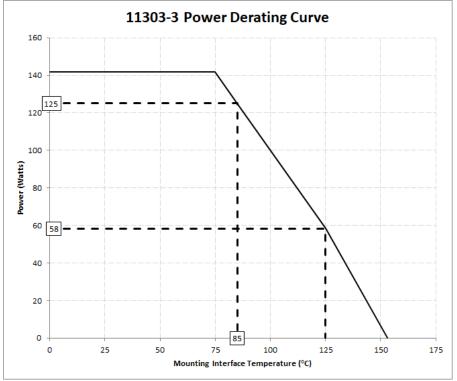


Hybrid Coupler Pin Configruation						
	Pin 1	Pin 2	Pin 3	Pin 4		
Configuration #1	Input	Isolated	-3dB, -90°	-3dB, 0°		
Configuration #2	Isolated	Input	-3dB, 0°	-3dB, -90°		
Configuration #3	94D 909	-3dB, 0°	Input	Isolated		
	-300, -90	-3ab, u	mpar	เรียเสเซน		









Power Derating:

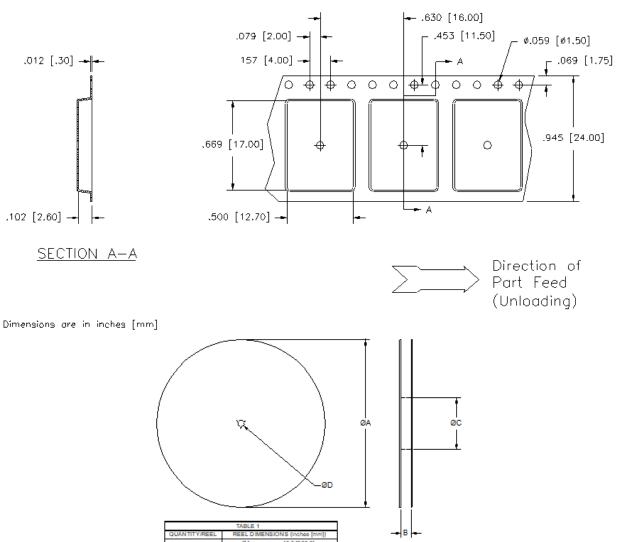
The power handling and corresponding power derating plots are a function of the thermal resistance, mounting interface temperature, maximum continuous operating temperature of the coupler, and the thermal insertion loss. The thermal insertion loss is defined in the Power Handling section of the data sheet.

As the mounting interface temperature approaches the maximum continuous operating temperature, the power handling decreases to zero



Packaging

Parts are available in both reel and tube. Packaging follows EIA 481-2. Parts are provided in tape and reel as shown below. Minimum order quantities are 1000 per reel and 35 per tube.



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