

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:

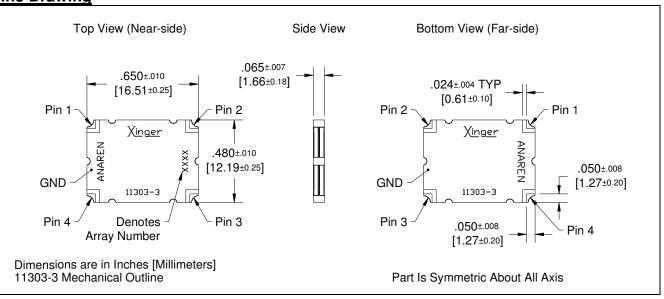
- 380 520 MHz
- Low loss
- · High Isolation
- 90^O Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

ELECTRICAL SPECIFICATIONS**

Frequency	Isolation	Insertion Loss	VSWR	
MHz	dB Min	dB Max	Max:1	
380 – 520	20	0.35	1.28	
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.
dB Max	Degrees	Ave. CW Watts	ºC/ Watt	<u>°</u> C
± 0.30	± 3	125	14	-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







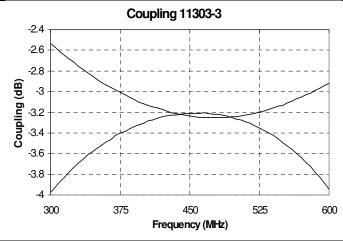
Available on Tape and Reel For Pick and Place Manufacturing.

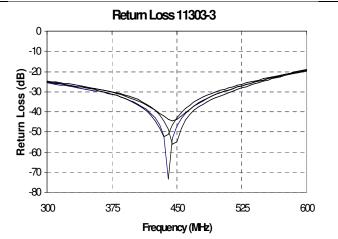
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

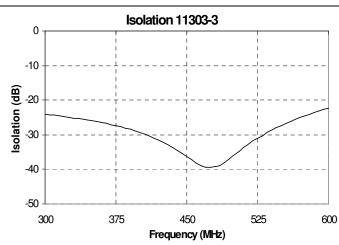


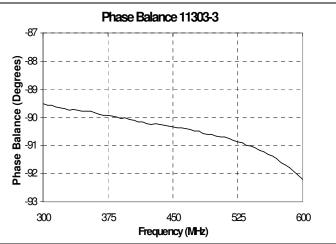


Typical Performance: 300 MHz to 600 MHz.



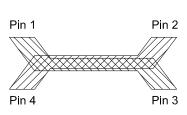






Mounting Footprint

Pin Configuration



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			

To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part 00 0 0 Part Is Symmetric About All Axis Mutiple plated thru holes 00 000(.063 SQ TYP [1.60] Transmission Line Dimensions are in Inches [Millimeters] 11303-3 Mounting Footprint

USA/Canada: Toll Free: Europe:

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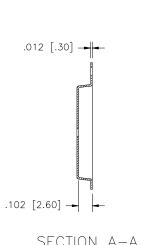
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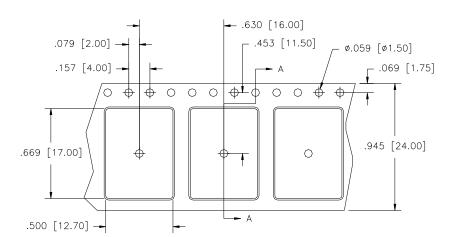




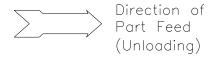
PACKAGING

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.

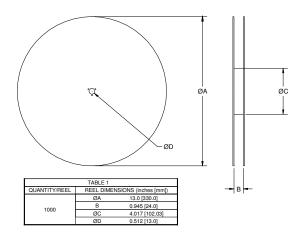




SECTION A-A



Dimensions are in inches [mm]





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