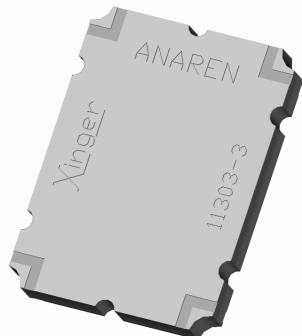


Xinger®

Hybrid Couplers 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:

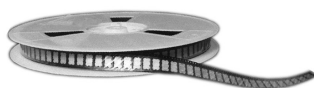
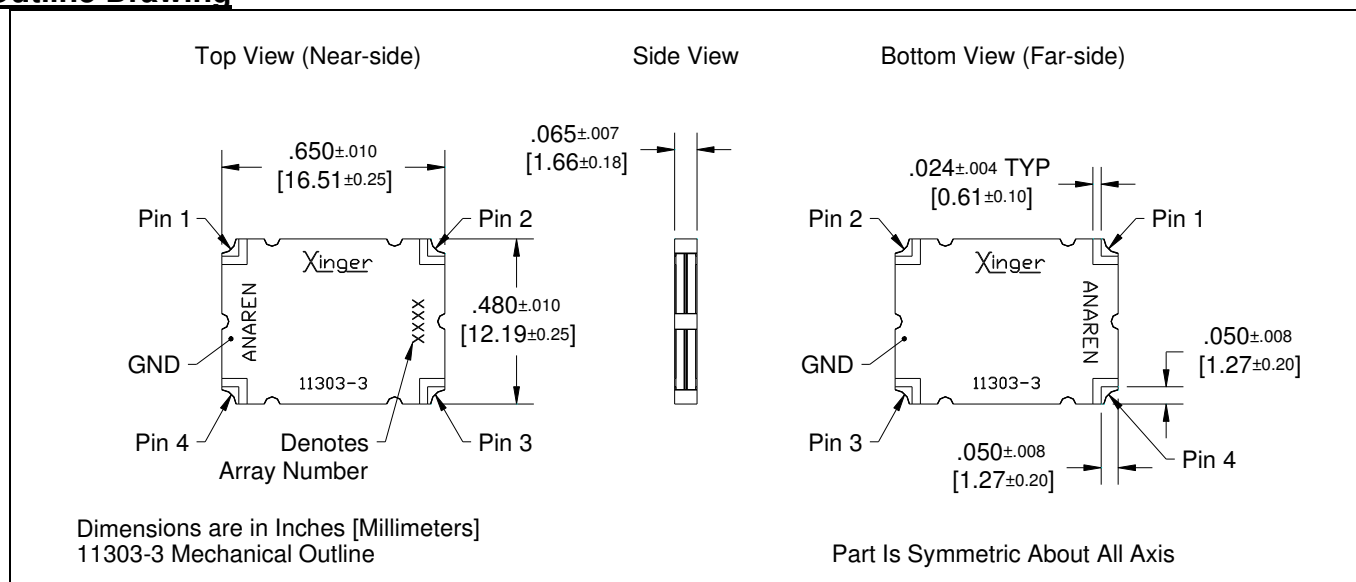
- 380 - 520 MHz
- Low loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

ELECTRICAL SPECIFICATIONS**

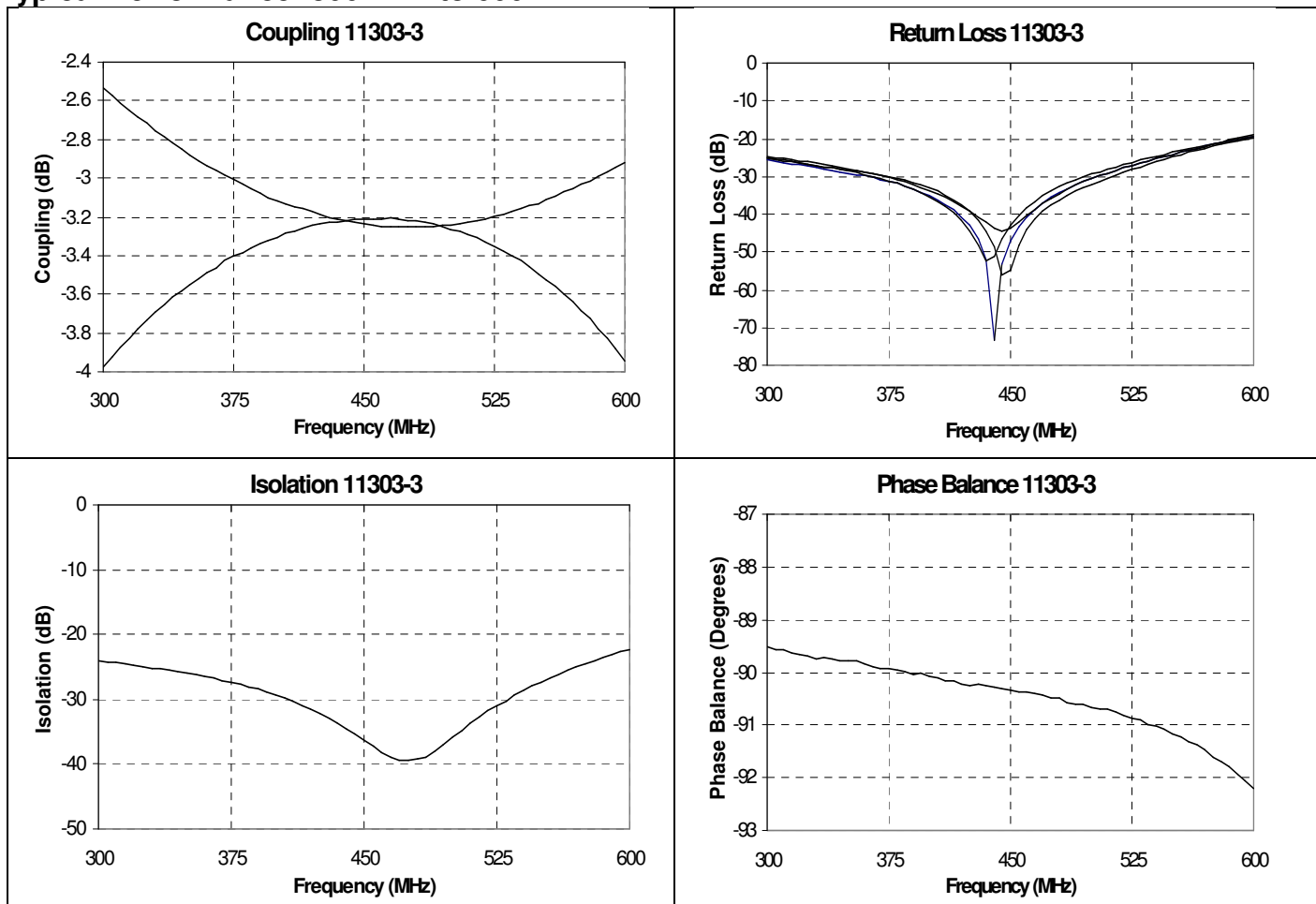
Frequency	Isolation	Insertion Loss	VSWR	
MHz	dB Min	dB Max	Max:1	
380 – 520	20	0.35	1.28	
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.
dB Max	Degrees	Ave. CW Watts	°C/ Watt	°C
± 0.30	± 3	125	14	-55 to +85

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

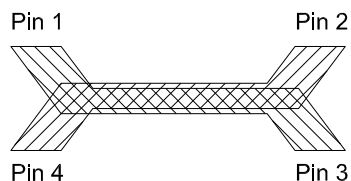
Outline Drawing



Typical Performance: 300 MHz to 600 MHz.



Pin Configuration

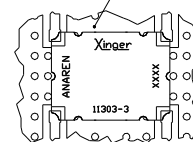


Hybrid Coupler Pin Configuration

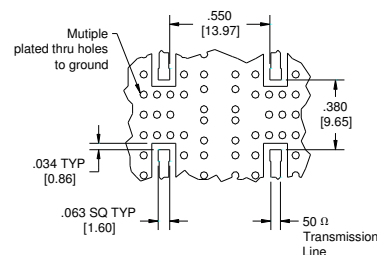
	Pin 1	Pin 2	Pin 3	Pin 4
Configuration #1	Input	Isolated	-3dB, -90°	-3dB, 0°
Configuration #2	Isolated	Input	-3dB, 0°	-3dB, -90°
Configuration #3	-3dB, -90°	-3dB, 0°	Input	Isolated
Configuration #4	-3dB, 0°	-3dB, -90°	Isolated	Input

Mounting Footprint

To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part



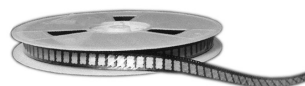
Part Is Symmetric About All Axis



Dimensions are in Inches [Millimeters]
11303-3 Mounting Footprint

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

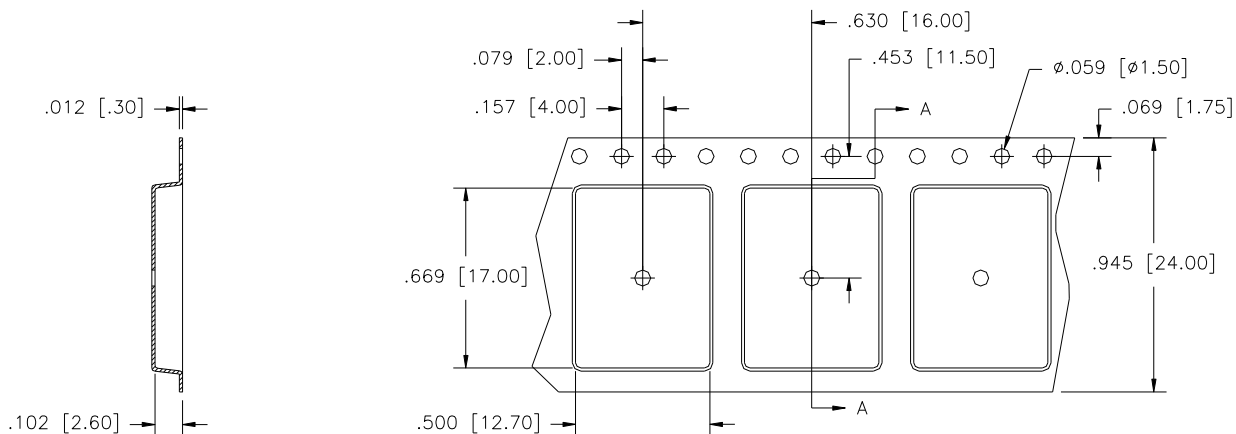
Available on Tape and
Reel For Pick and Place
Manufacturing.



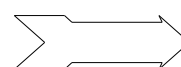
Anaren
What'll we think of next?

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



Direction of
Part Feed
(Unloading)

Dimensions are in inches [mm]

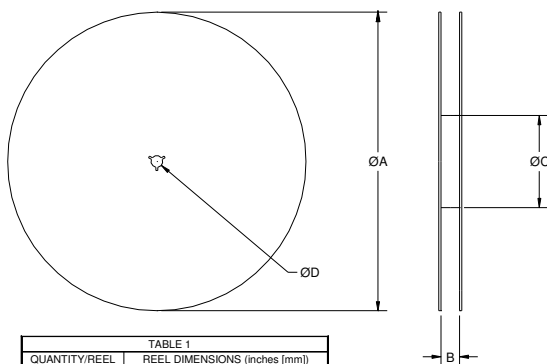
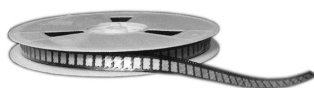


TABLE 1	
QUANTITY/REEL	REEL DIMENSIONS (inches [mm])
1000	ØA 13.0 [330.0]
	B 0.945 [24.0]
	ØC 4.017 [102.03]
	ØD 0.512 [13.0]



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