





Micro Xinger 3dB Hybrid Coupler

Description

The 1M703 Micro Xinger® is a low profile, miniature 3dB hybrid coupler in an easy to use surface mount package designed for ISM and LMDS applications. The 1M703 is designed for balanced amplifiers and signal distribution and is an ideal solution for the ever-increasing demands of the wireless industry for smaller printed circuit boards and high performance. 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:

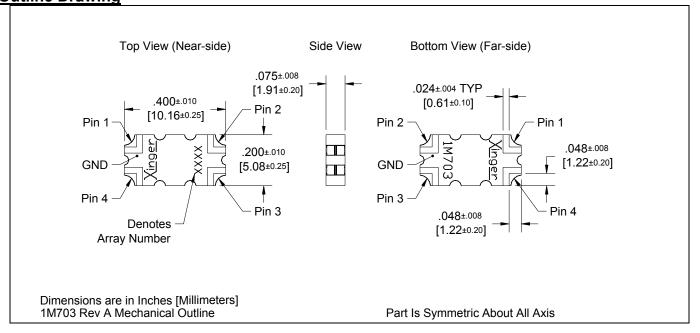
- 3.3 3.7 GHz
- Low Loss
- High Isolation
- 90^O Quadrature
- Surface Mountable
- Tape And Reel
- New Micro-Package
- 100% Tested

ELECTRICAL SPECIFICATIONS**

Frequency	Isolation	Insertion Loss	VSWR	
GHz	dB Min	dB Max	Max:1	
3.3 – 3.7	23	0.20	1.19	
Amplitude	Phase	D	0.10	Operating
Balance	Balance	Power	ΘJC	Temp.
Balance dB Max	Balance Degrees	Ave. CW Watts	©JC °C/Watt	•

^{**}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







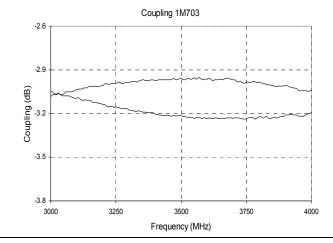
Available on Tape and Reel For Pick and Place Manufacturing.

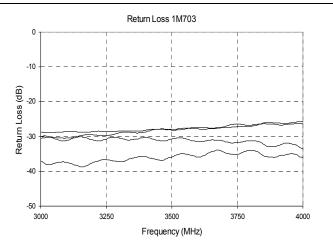
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

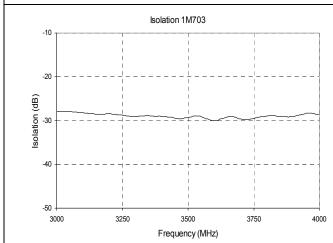


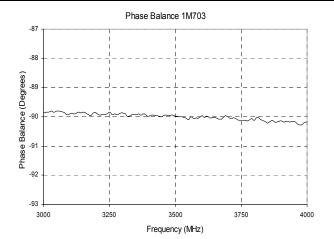
Xinger_®

Typical Performance: 3.0 GHz. to 4.0 GHz.

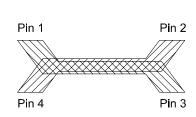






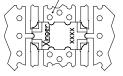


Pin Configuration

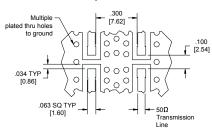


Hybrid Coupler Pin Configruation					
Pin 1	Pin 2	Pin 3	Pin 4		
Input	Isolated	-3dB, -90°	-3dB, 0°		
Isolated	Input	-3dB, 0°	-3dB, -90°		
-3dB, -90°	-3dB, 0°	Input	Isolated		
-3dB, 0°	-3dB, -90°	Isolated	Input		
	Pin 1 Input Isolated -3dB, -90°	Pin 1 Pin 2 Input Isolated Isolated Input -3dB, -90° -3dB, 0°	Pin 1 Pin 2 Pin 3 Input Isolated -3dB, -90° Isolated Input -3dB, 0° -3dB, -90° -3dB, 0° 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] 1M703 Rev A Mounting Footprint

USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392 Available on Tape and Reel For Pick and Place Manufacturing.

