

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Micro Xinger

3dB Hybrid Coupler







The 1M803 Micro Xinger® is a low profile, miniature 3dB hybrid coupler in an easy to use surface mount package designed for U-NII, ISM and hyper LAN applications. The 1M803 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 and G-10. Available in both 5 of 6 tin lead (1M803) and 6 of 6 RoHS compliant tin immersion (1M803S).

Features:

- Very Low Loss
- High Isolation
- 90^O Quadrature
- Surface Mountable
- Tape And Reel
- Available in Lead-Free (as illustrated) or Tin-Lead

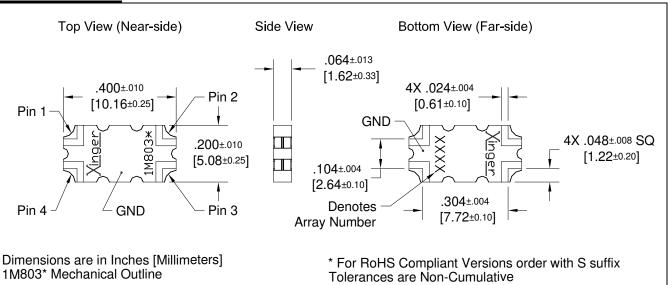
ELECTRICAL SPECIFICATIONS**

Description

Frequency	Isolation	Insertion Loss	VSWR	
GHz	dB Min	dB Max	Max:1	
5.0 - 6.0 4.8 - 6.0	20 20	0.25 0.25	1.21 1.21	
Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.
dB Max	Degrees	Ave. CW Watts	ºC/Watt	ºC
± 0.30 ± 0.40	± 3 ± 3.5	20	78.1	-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.

Mechanical Outline





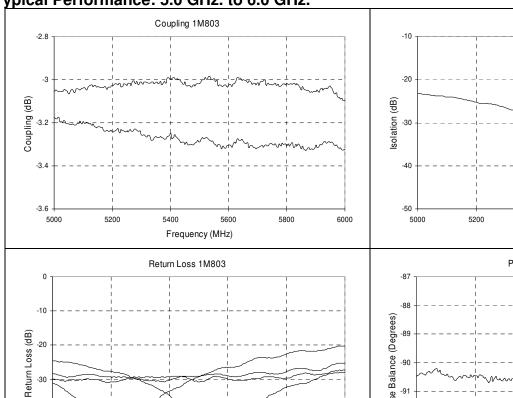


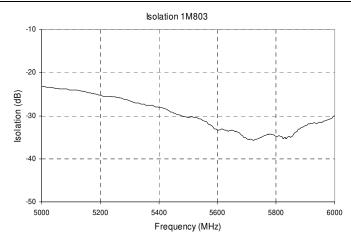
Available on Tape and Reel For Pick and Place Manufacturing.

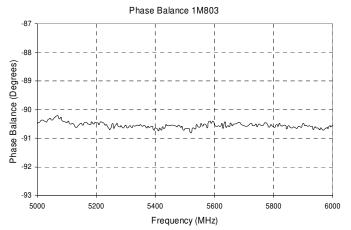
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392



Typical Performance: 5.0 GHz. to 6.0 GHz.







Pin Configuration

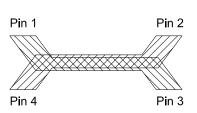
5200

-30

-40

-50

5000



5400

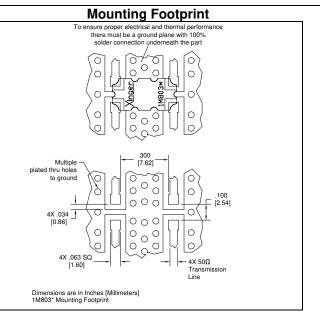
Frequency (MHz)

5600

5800

6000

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		



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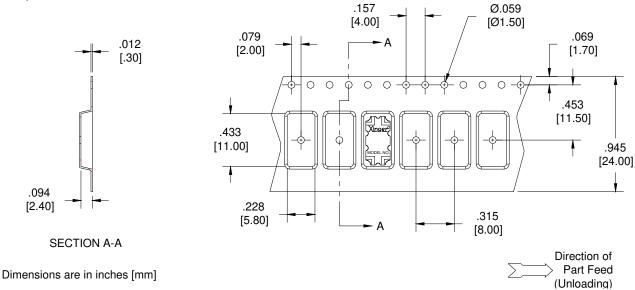




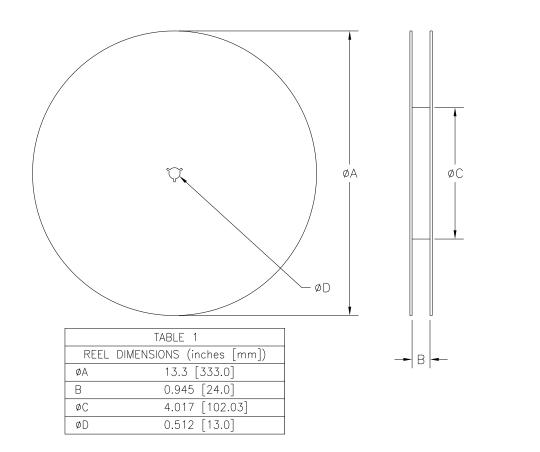


PACKAGING

Packaging follows EIA-481-2. Parts available in tape and reel. Contact Customer service for Minimum reel order quantity.



Tape and Reel Diagram







Available on Tape and Reel For Pick and Place Manufacturing.

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