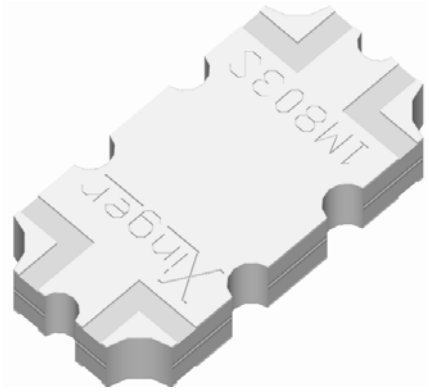
Micro Xinger
3dB Hybrid Coupler



Description

The 1M803S Micro Xinger® is a low profile, miniature 3dB hybrid coupler in an easy to use surface mount package designed for U-NII, ISM and hyperLAN applications. The 1M803S 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. Produced with 6 of 6 RoHS compliant tin immersion.

Features:

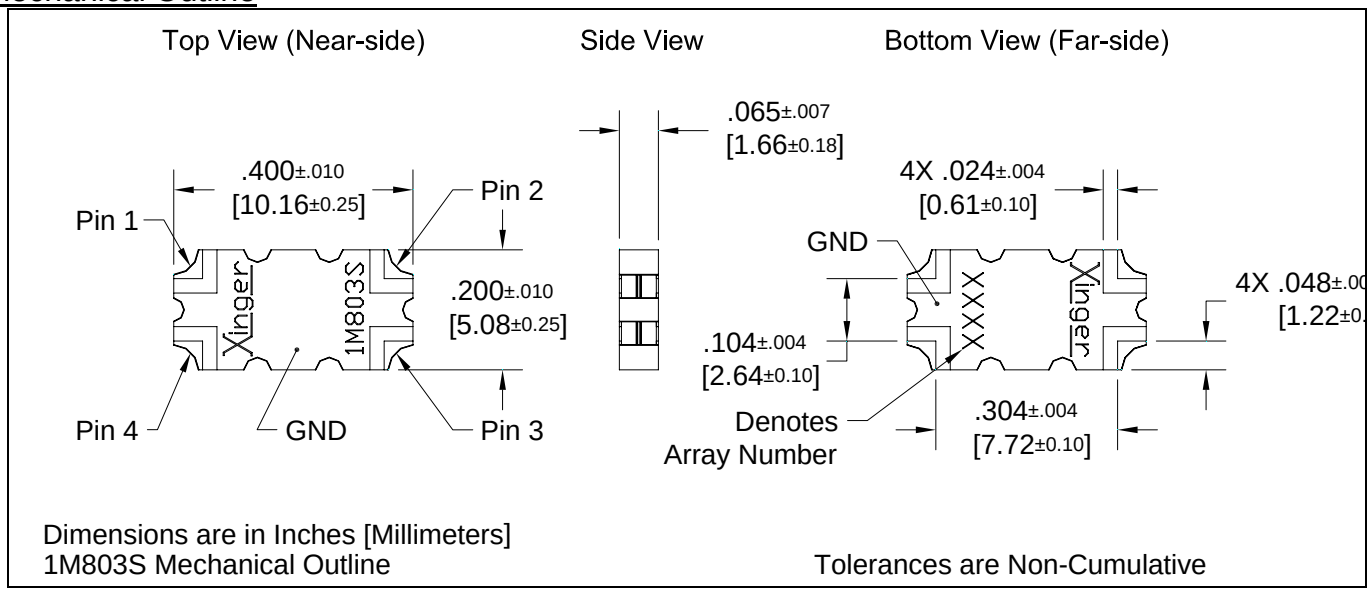
- **5.0 – 6.0 GHz**
- **Very Low Loss**
- **High Isolation**
- **90^{O} Quadrature**
- **Surface Mountable**
- **Tape And Reel**
- **New Micro-Package**
- **100% Tested**
- **Lead Free**

ELECTRICAL SPECIFICATIONS**

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





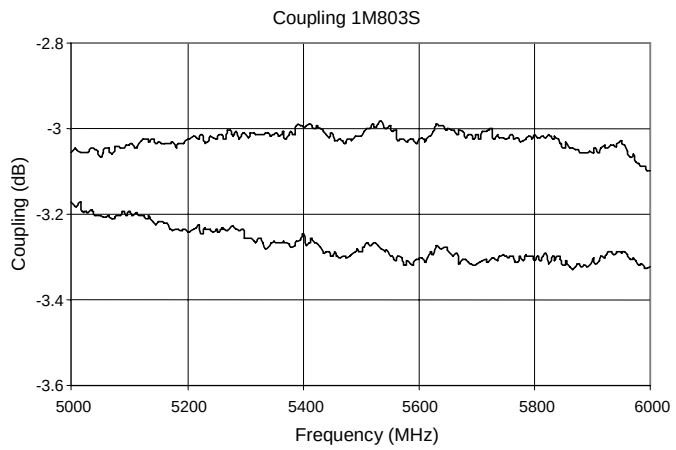
Available on Tape and Reel For Pick and Place Manufacturing.

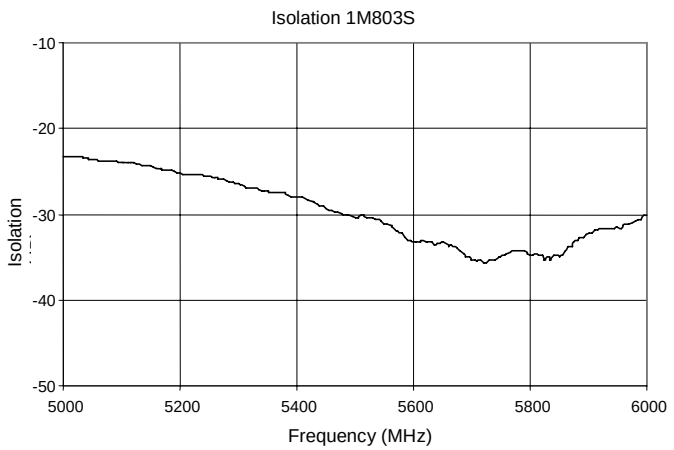
USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

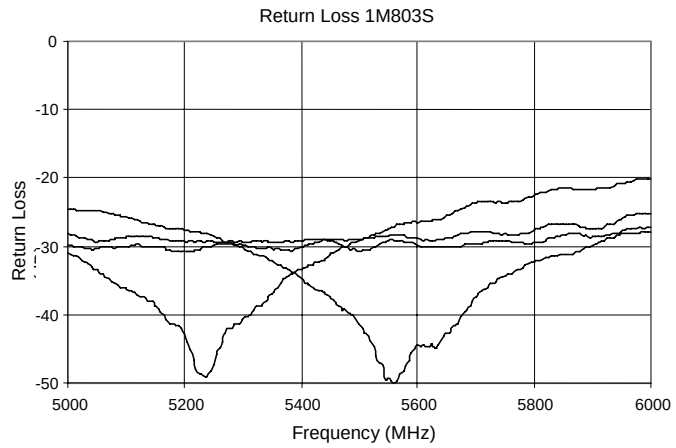
Model 1M803S

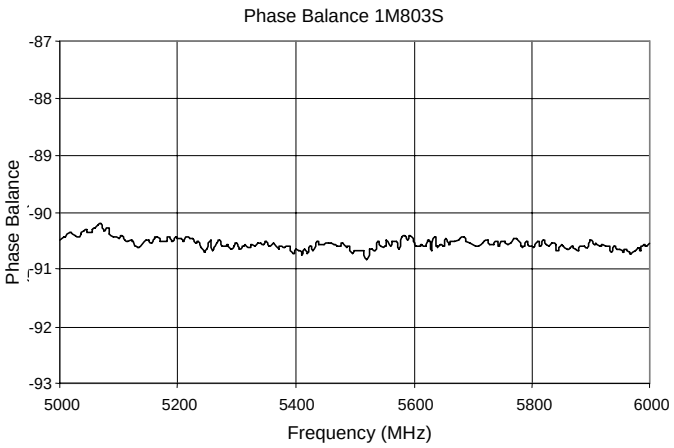
Rev. C

Typical Performance: 5.0 GHz. to 6.0 GHz.

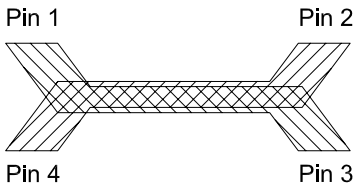






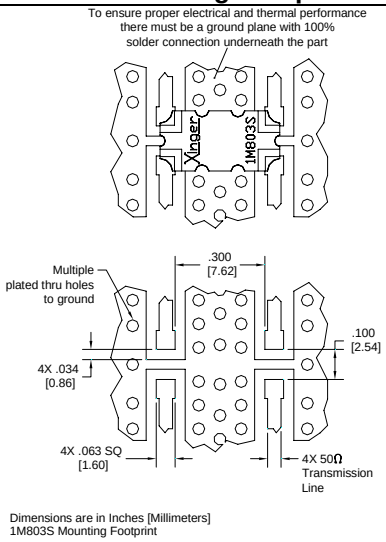


Pin Configuration



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

Mounting Footprint



Dimensions are in Inches [Millimeters]
1M803S Mounting Footprint

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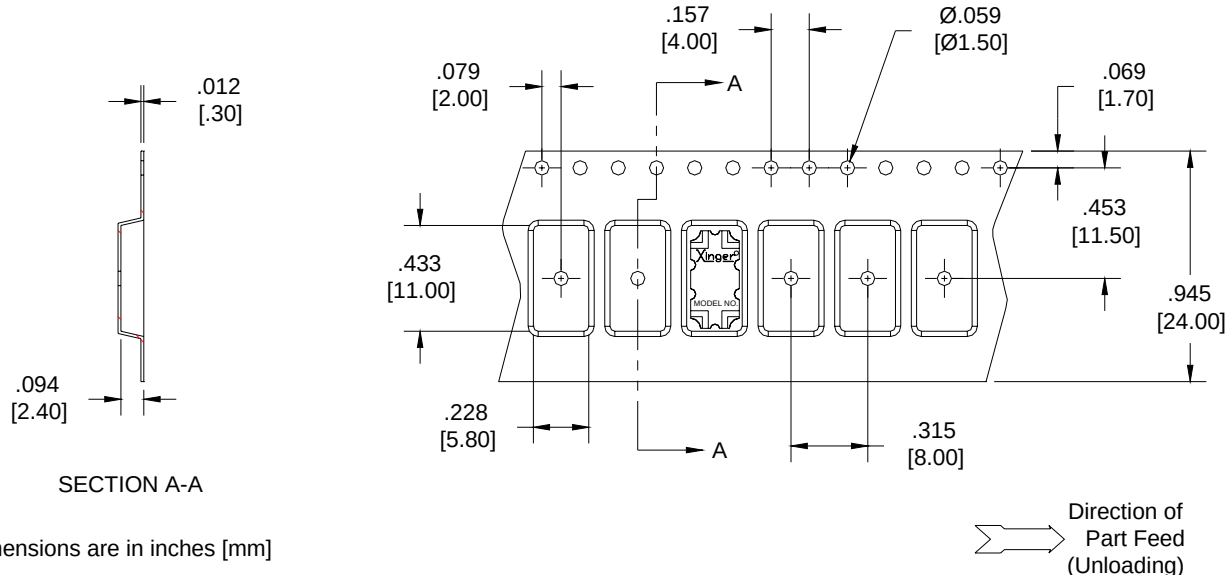
Available on Tape and Reel For Pick and Place Manufacturing.



Anaren
What'll we think of nex

Carrier Tape

Parts are oriented in embossed tape as shown below



Dimensions are in inches [mm]

Reel

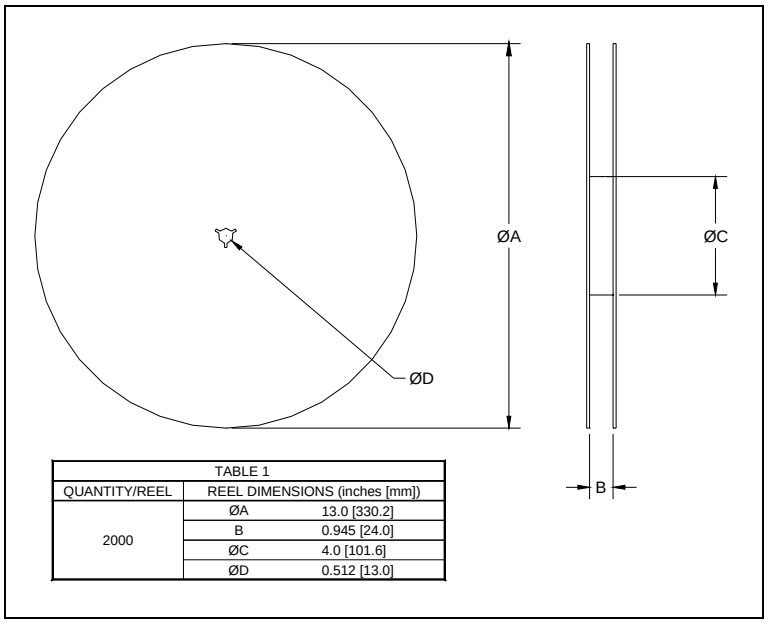


TABLE 1		
QUANTITY/REEL	REEL DIMENSIONS (inches [mm])	
2000	ØA	13.0 [330.2]
	B	0.945 [24.0]
	ØC	4.0 [101.6]
	ØD	0.512 [13.0]

- **Parts are available in both reel and tube**
- **Quantity of 48 parts available per tube**



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