





Features:

- 5.0 6.0 GHz
- **Very Low Loss**
- **High Directivity**
- **Surface Mountable**
- **Tape And Reel**
- Available in Lead-Free finish

Micro Xinger 10dB Directional Coupler

Description

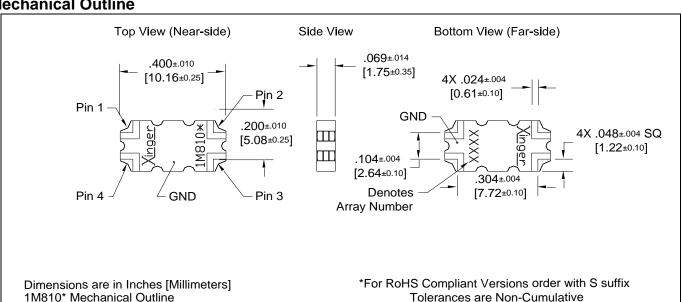
The 1M810 Micro Xinger® is a low profile, miniature 10dB directional coupler in an easy to use surface mount package designed for U-NII, ISM and hyperLAN applications. The 1M810 is for power and frequency detection as well as power injection and is an ideal solution for the everincreasing demands of 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. Available in 6 of 6 RoHS compliant tin immersion (1M810S).

ELECTRICAL SPECIFICATIONS**

Frequency	Mean Coupling	Insertion Loss	VSWR	Freq. Sensitivity
GHz	dB	dB Max	Max : 1	dB Max
5.0 - 6.0	10.0 ± .75	0.30	1.33	± .30
Directivity	Power Handling	ΘJC	Operating Temp.	
dB Min	Watts	℃ / Watt	°C	
18	15	23.8	-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





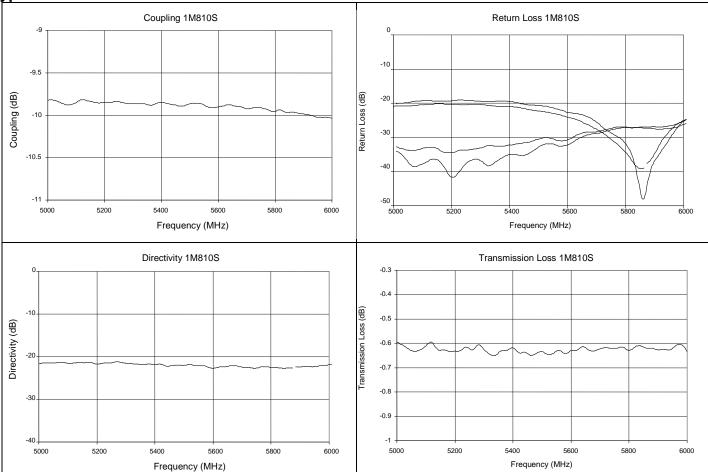


Available on Tape and Reel For Pick and Place Manufacturing.

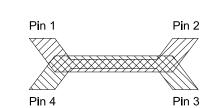
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 +44 2392-232392 Europe:



Typical Performance: 5.0 GHz. to 6.0 GHz.



Pin Configuration



Direc	Directional Coupler Pin Configuration					
	Pin 1	Pin 2	Pin 3	Pin 4		
Configuration #1	Input	Output	Isolated	Coupled		
Configuration #2	Output	Input	Coupled	Isolated		
Configuration #3	Isolated	Coupled	Input	Output		
Configuration #4	Coupled	Isolated	Output	Input		

Mounting Footprint To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part .300 [7.62] Multiple plated thru holes 00 0 4X .034] 000 00 0 0 0 0 0 4X .063 SQ [1.60] - 4X 50Ω Transmis Line Dimensions are in Inches [Millimeters] 1M810* Mounting Footprint

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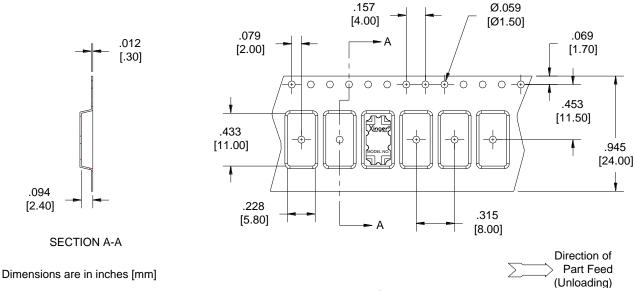




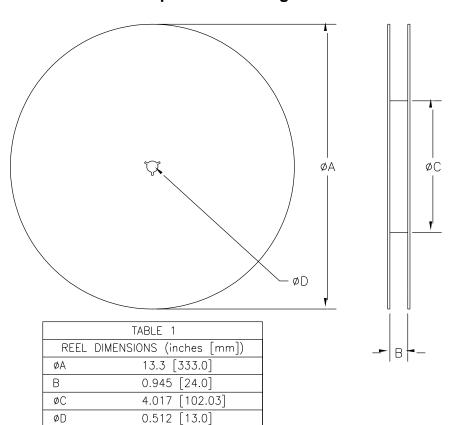
Xinger_®

PACKAGING

Packaging follows EIA-481-2. Parts are oriented in tape as shown below. Minimum order quantities are 2000 per reel.



Tape and Reel Diagram







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