





Features:

- 5000-6000 MHz
- Very Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- New Micro-Package
- Lead-Free
- RoHS Compliant
- 100% Tested

Micro Xinger 10dB Directional Coupler

Description

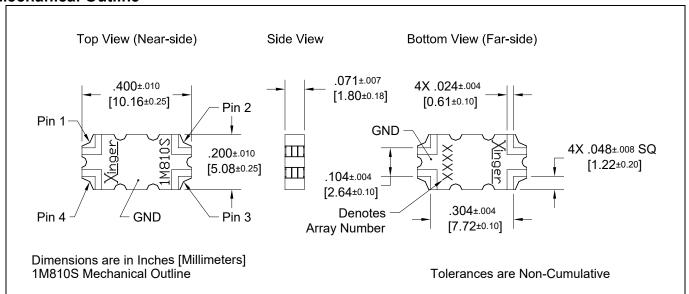
The 1M810S Micro Xinger® is a low profile, miniature 10dB directional coupler in an easy to use surface mount package designed for U-NII, ISM and hyperLAN applications. The 1M810S is for power and frequency detection as well as power injection and is an ideal solution for the everincreasing demands of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

ELECTRICAL SPECIFICATIONS**

Frequency	Mean Coupling	Insertion Loss	Freq. Sensitivity
GHz	dB	dB Max	dB Max
5000-6000	10.0 ± .75	0.30	± .30
Directivity	Power Handling	VSWR	Operating Temp.
dB Min	Avg. CW Watts @85°C	Max : 1	°C
18	15	1.33	-55 to +150

^{**}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





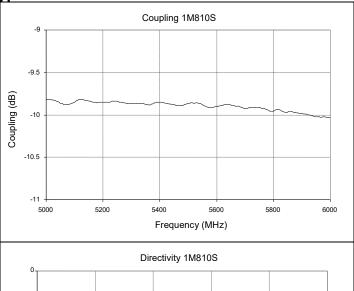


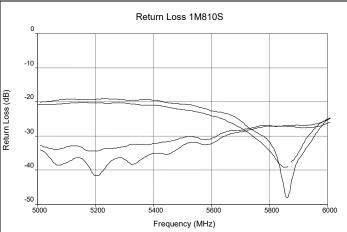
USA/Canada: Toll Free: Europe: Asia:

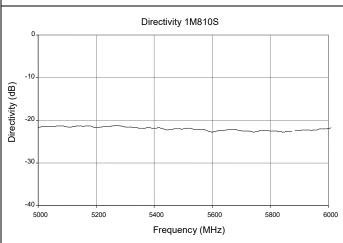
da: (315) 233-5510 : (833) 389-6402 +44 2392-232392 +86 512 62749282

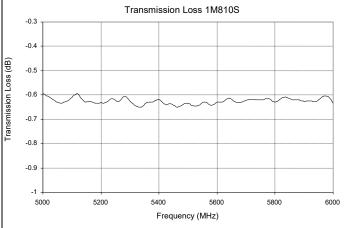


Typical Performance: 5.0 GHz. to 6.0 GHz.



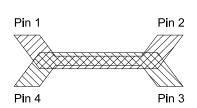




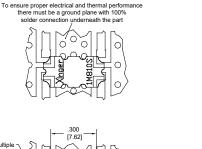


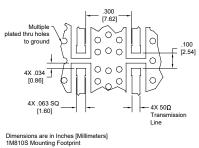
Mounting Footprint

Pin Configuration



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			





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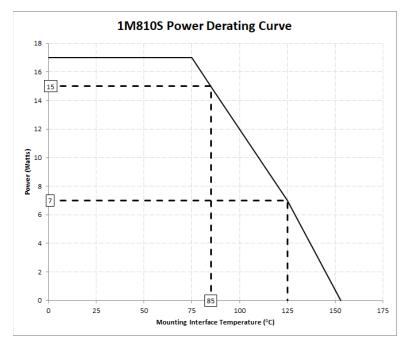
Asia:

+44 2392-232392 +86 512 62749282 Available on Tape and Reel For Pick and Place Manufacturing.





1M810S Power Derating Curve



Power Derating:

The power handling and corresponding power derating plots are a function of the thermal resistance, mounting surface temperature (base plate temperature), maximum continuous operating temperature of the coupler, and the thermal insertion loss.

As the mounting interface temperature approaches the maximum continuous operating temperature, the power handling decreases to zero.

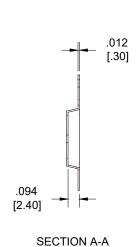


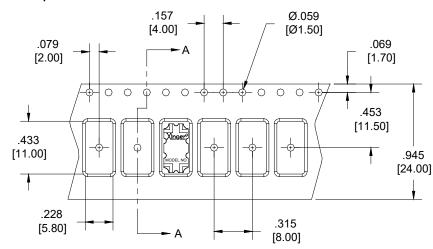
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Carrier Tape

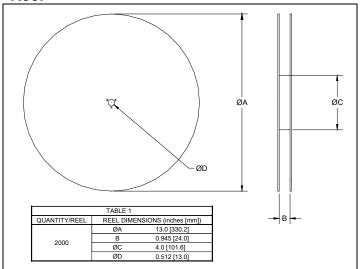
Parts are oriented in embossed tape as shown below





Dimensions are in inches [mm]

Reel



Parts are available in both reel and tube

Direction of Part Feed

(Unloading)

Quantity of 48 parts available per tube

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Available on Tape and Reel For Pick and Place Manufacturing.



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