



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 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:

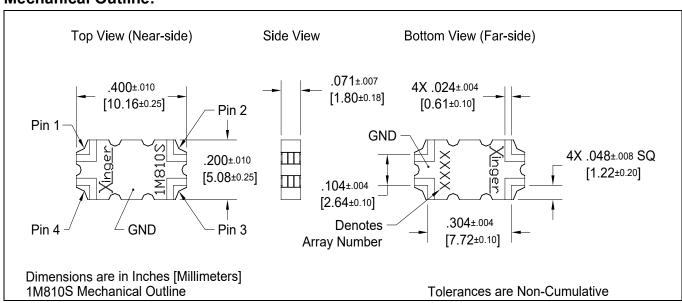
- 5000-6000 MHz
- Very Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- New Micro-Package
- Lead-Free
- RoHS Compliant
- 100% Tested

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			

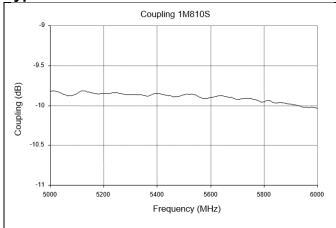
**Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

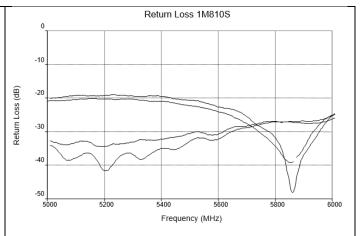
Mechanical Outline:

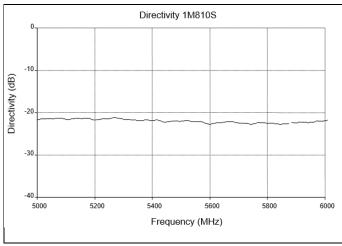


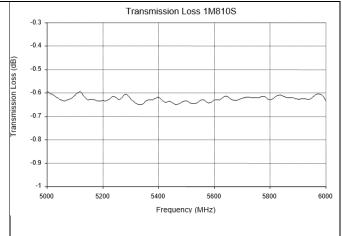


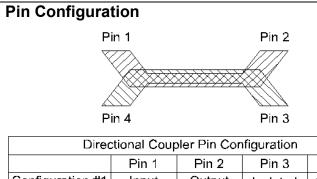
Typical Performance 5.0 GHz. to 6.0 GHz



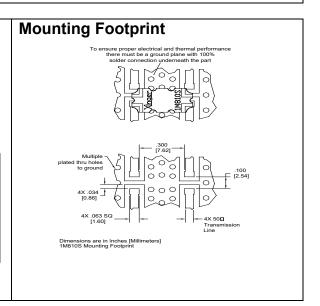






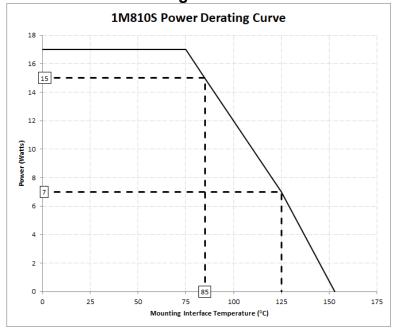


Directional Coupler Pin Configuration						
	Pin 1	Pin 2	Pin 3	Pin 4		
Configuration #1	Input	Output	Isolated	Coupled		
Configuration #2	Output	Input	Coupled	Isolated		
Configuration #3	Isolated	Coupled	Input	Output		
Configuration #4	Coupled	Isolated	Output	Input		





1M810S Power Derating Curve



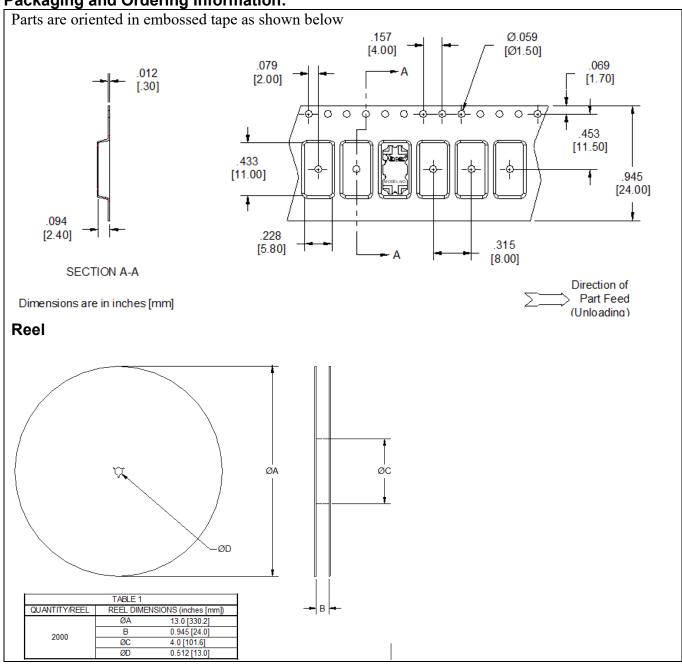
Power Derating

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.



Packaging and Ordering Information:



Contact us:

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