



Micro Xinger 10dB Directional Coupler

Yalour Clark

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**

Features:	Frequency	Mean	Insertion Loss	Freq.
 5000-6000 MHz 		Coupling		Sensitivity
Very Low Loss	GHz	dB	dB Max	dB Max
High Directivity	5000-6000	10.0 ± .75	0.30	± .30
Surface Mountable		1010 2 11 0	0.00	2.00
Tape And Reel	Directivity	Power	VSWR	Operating
New Micro-Package	2	Handling		Temp.
Lead-Free	dB Min	Avg. CW Watts @85°C	Max : 1	°C
RoHS Compliant		U		
• 100% Tested	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





Available on Tape and Reel For Pick and Place Manufacturing. USA/Canada: (315) 233-5510 Toll Free: (833) 389-6402 Europe: +44 2392-232392 Asia: +86 512 62749282

Typical Performance: 5.0 GHz. to 6.0 GHz.



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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



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ØD

USA/Canada: Toll Free: Europe: Asia:

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TABLE 1

В

ØC

ØD

QUANTITY/REE

2000

 REEL DIMENSIONS (inches [mm])

 ØA
 13.0 [330.2]

0.945 [24.0]

0.512 [13.0]

4.0 [101.6]

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