

Model 1M810S



Features:

5.0 – 6.0 GHz Very Low Loss High Directivity Surface Mountable Tape And Reel New Micro-Package

Lead-Free

RoHS Compliant 100% Tested

Micro Xinger 10dB Directional Coupler

Xinger

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	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.	L
dB Min	Watts	₽C / 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.

Outline Drawing Top View (Near-side) Side View Bottom View (Far-side) .071±.007 [1.80±0.18] 4X .024±.004 400±.010 Pin 2 [10.16±0.25] [0.61±0.10] Pin 1 GND 4X .048±.008 SQ Orientation .200±.010 Ш [1.22±0.20] Marker Denotes àc [5.08±0.25] Ш 104±.004 Pin Location [2.64±0.10] .304±.004 Denotes Pin 4 GND Pin 3 [7.72±0.10] Array Number Dimensions are in Inches [Millimeters] 1M810S Rev A Mechanical Outline Tolerances are Non-Cumulative USA/Canada: (315) 432-8909 Available on Tape

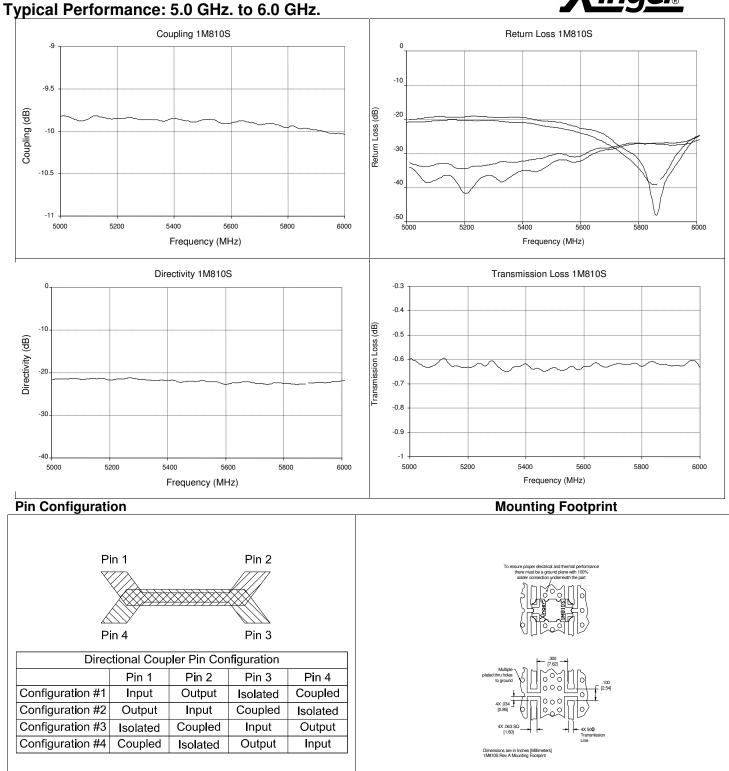
What'll we think of next

a

Available on Tape and Reel For Pick and Place Manufacturing. ISA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392



Xinger.



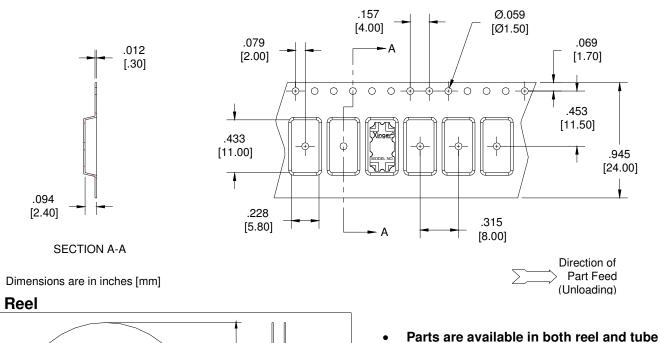
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Carrier Tape

Parts are oriented in embossed tape as shown below



øс

Quantity of 48 parts available per tube





øΑ

в

ØD

TABLE 1

ØD

QUANTITY/REEL

2000

 BEEL DIMENSIONS (inches [mm])

 ØA
 13.0 [330.2]

 B
 0.945 [24.0]

 ØC
 4.0 [101.6]

0.512 [13.0]

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