

Xinger, III

Directional Coupler 20 dB



Description

The XMC0812F1-20G is a low profile, high performance 20Db directional coupler in a new easy to use, manufacturing friendly surface mount package. The XMC0812F1-20G is designed particularly for X band radar applications and other applications where low insertion loss is required. It can be used in high power applications up to 25* watts.

Parts have been subjected to rigorous qualification testing and they are manufactured using materials with coefficients of thermal expansion (CTE) compatible with common substrates such as FR4, G-10, RF-35, RO4350 and polyimide. Available in 6 of 6 ENIG (XMC0812F1-20G) RoHS compliant finish.

Features:

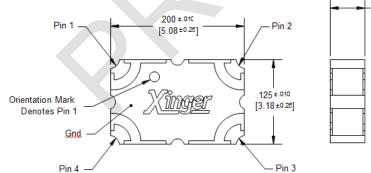
- 8000-12000 MHz
- X Band Radar
- High Power
- Very Low Loss
- Production Friendly
- Tape and Reel
- ENIG Finish

Electrical Specifications **

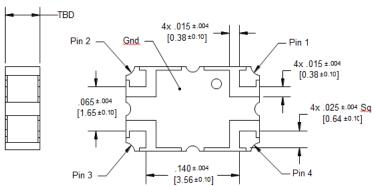
Frequency	Mean Coupling	Insertion Loss	VSWR	Directivity
MHz	dB Min	dB Max	Max : 1	dB Min
8000-12000	20 ± 1.00	0.50	1.22	20
Frequency Sensitivity	Power	ΘJC	Operating Temp.	
dB Max	Avg. CW Watts	°C/Watt	°C	
± 0.50	25*	TBD	-55 to +85	

^{**}Specification based on performance of unit properly installed on Anaren Test Board 67406-0001 with small signal applied. Specifications subject to change without notice. Refer to parameter definitions for details.

Mechanical Outline



Dimensions are in Inches [Millimeters]



Tolerances are Non-cumulative





Available on Tape and Reel for Pick and Place Manufacturing.

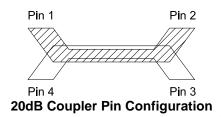
USA/Canada: (315) 4 Toll Free: (800) 4 Europe: +44 239

(315) 432-8909 (800) 411-6596 +44 2392-232392



Directional Coupler Pin Configuration

The XMC0812F1-20G has an orientation marker to denote Pin 1. Once port one has been identified the other ports are known automatically. Please see the chart below for clarification:



Pin 1	Pin 2	Pin 3	Pin 4
Input	Direct	Isolated	Coupled
Direct	Input	Coupled	Isolated

Note: The direct port has a DC connection to the input port and the coupled port has a DC connection to the isolated port.

For optimum IL and power handling performance, use Pin 1 or Pin 2 as inputs.

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