



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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:

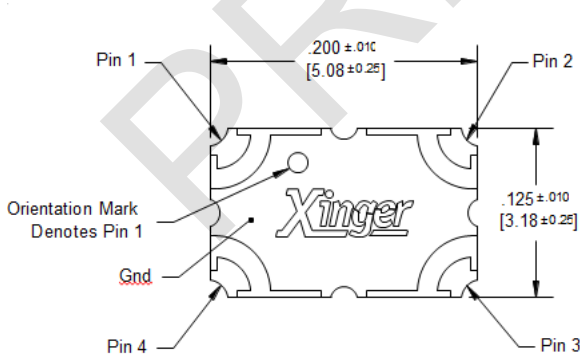
- 8000-12000 MHz
- X Band Radar
- High Power
- Very Low Loss
- Production Friendly
- Tape and Reel
- ENIG Finish

Electrical Specifications **

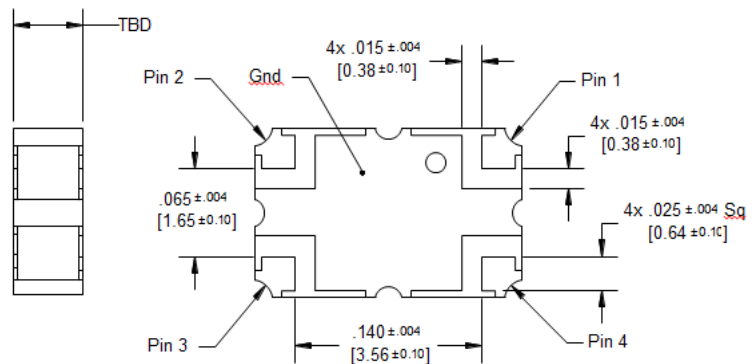
Frequency MHz	Mean Coupling dB Min	Insertion Loss dB Max	VSWR Max : 1	Directivity dB Min
8000-12000	20 ± 1.00	0.50	1.22	20
Frequency Sensitivity dB Max	Power Avg. CW Watts	ΘJC °C/Watt	Operating Temp. °C	
± 0.50	25*	TBD	-55 to +85	

**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]

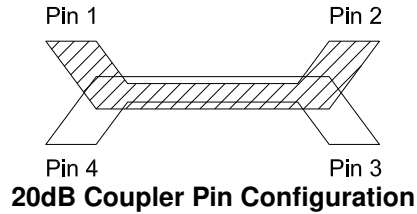


Tolerances are Non-cumulative



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.

