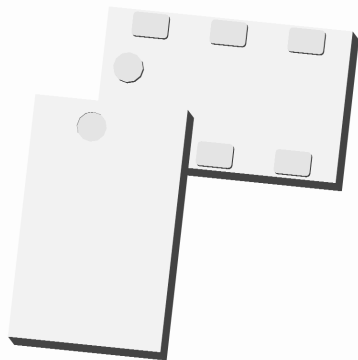


Xinger®



Ultra Low Profile 0805 3 dB, 90° Hybrid Coupler

Description

The C2023J503AHF is a low cost, low profile sub-miniature high performance 3 dB coupler in an easy to use surface mount package. It is designed for WiMax, WiBro, UMTS, and IMT2000 applications. The C2023J503AHF is ideal for balanced power and low noise amplifiers, plus signal distribution and other applications where low insertion loss and tight amplitude and phase balance are required. The C2023J503AHF is available on tape and reel for pick and place high volume manufacturing.

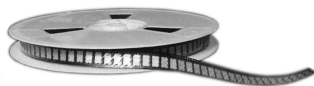
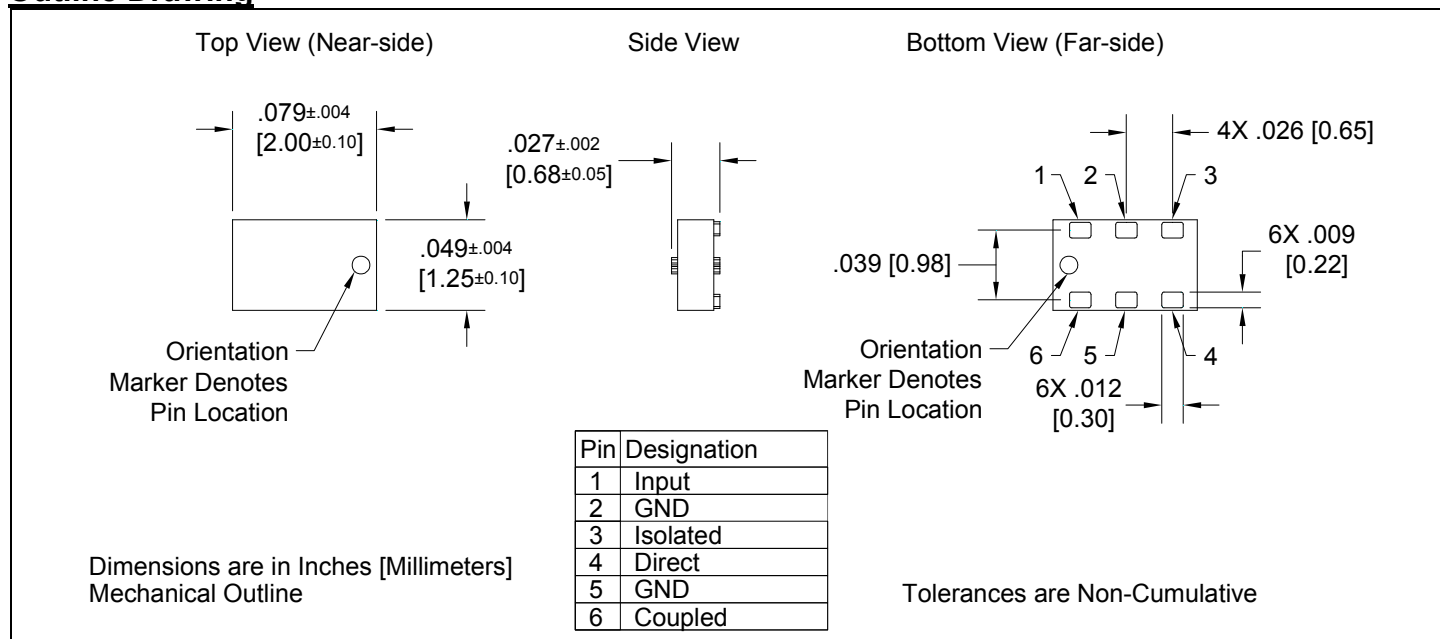
All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C

Detailed Electrical Specifications: Specifications subject to change without notice.

Features:	Parameter	ROOM (25°C)			Unit
		Min.	Typ.	Max	
<ul style="list-style-type: none"> 2000 – 2300 MHz 0.7mm Height Profile WiMax, WiBro, UMTS & IMT2000 applications High Isolation & Low Loss Surface Mountable Tape & Reel Non-conductive Surface RoHS Compliant Halogen-Free 	Frequency	2000		2300	MHz
	Port Impedance		50		Ω
	Return Loss	18	22		dB
	Isolation	21	25		dB
	Insertion Loss*		0.3	0.4	dB
	Amplitude Balance		0.1	0.8	dB
	Phase Balance (relative to 90°)		2	6	Degrees
	Power Handling			4	Watts
	Operating Temperature	-55		+85	°C

* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

Outline Drawing



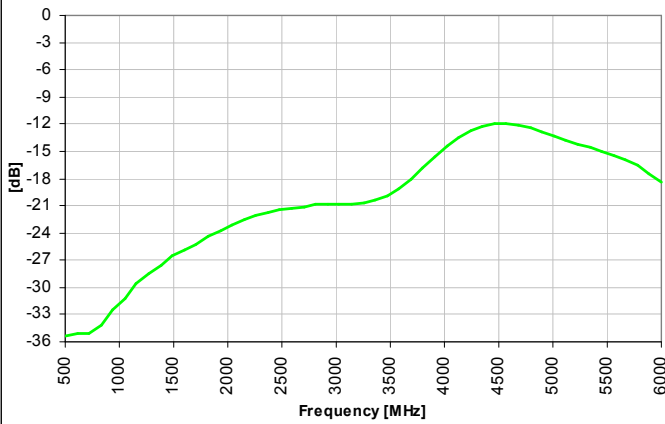
Model C2023J5003AHF

Rev A

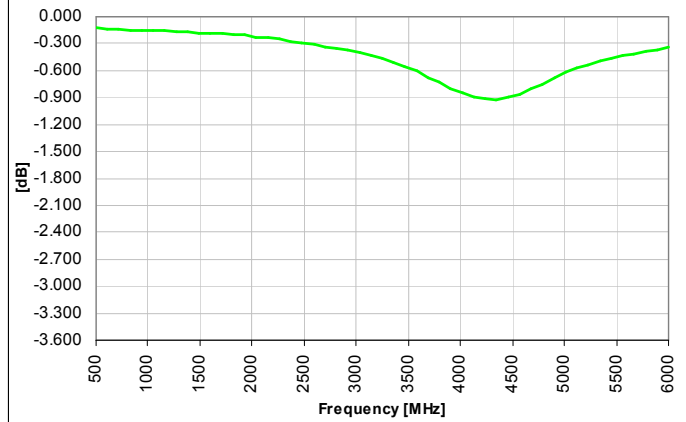
Anaren®

Typical Broadband Performance: 500 MHz. to 6000 MHz.

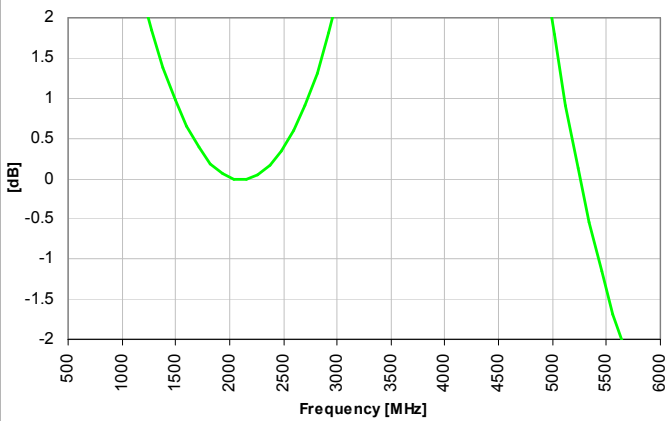
Return Loss - Input



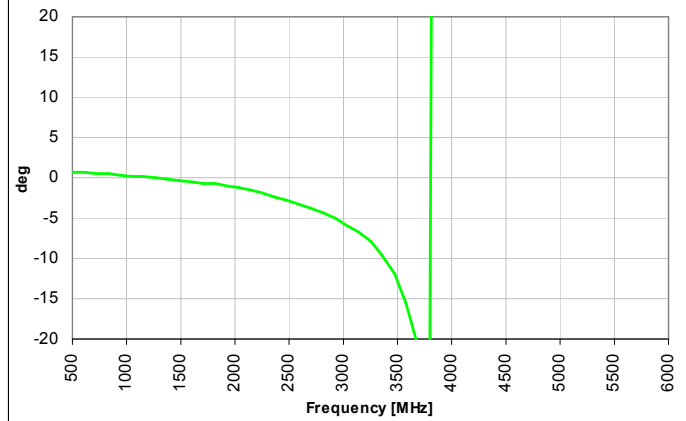
Insertion Loss



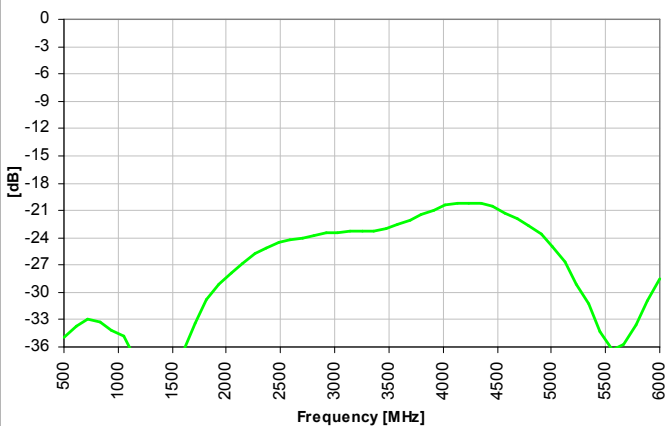
Amplitude Balance



Phase Balance

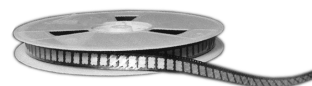


Isolation



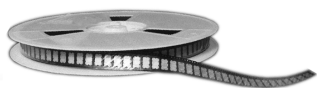
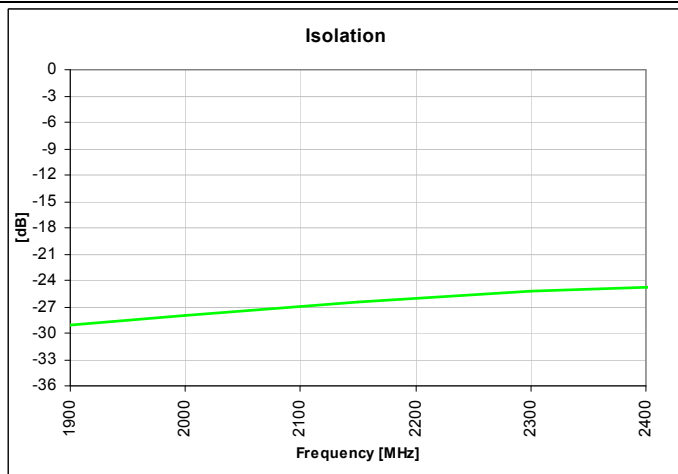
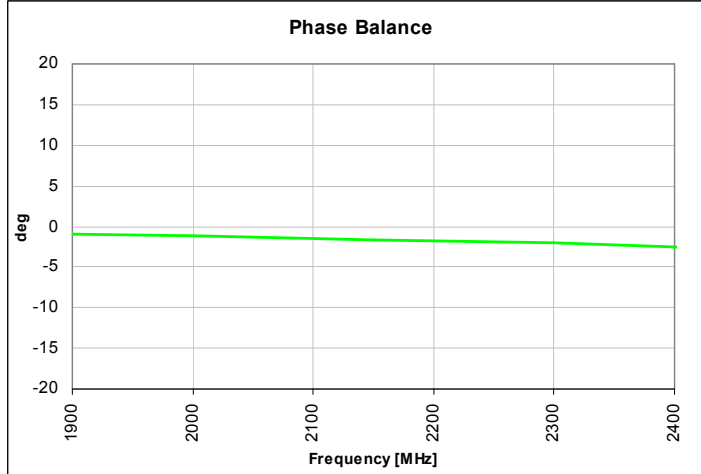
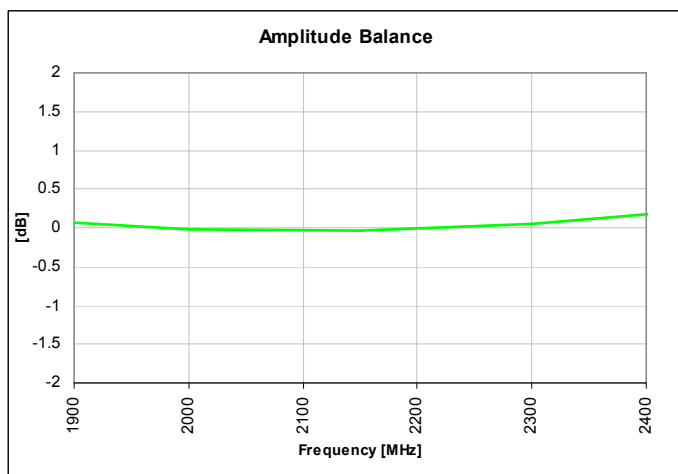
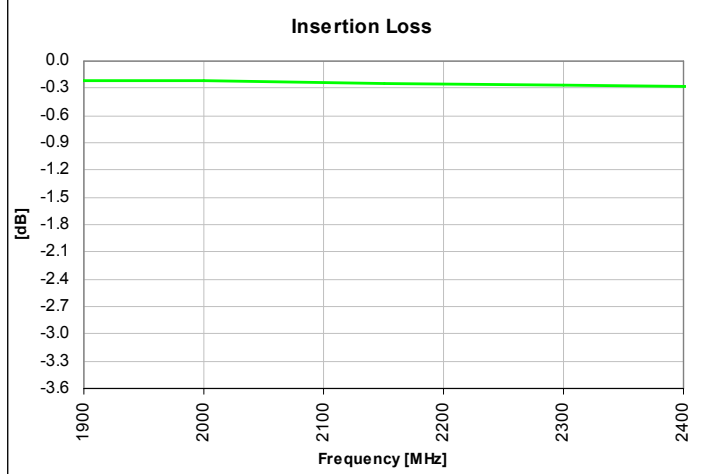
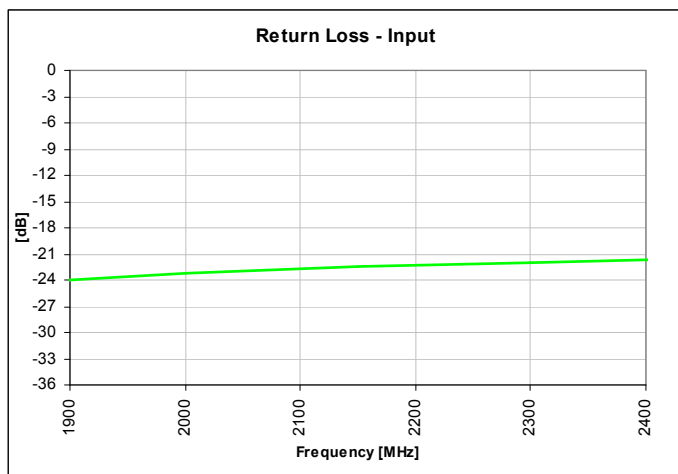
USA/Canada: (315) 432-8909
Toll Free: (800) 411-6596
Europe: +44 2392-232392

Available on Tape and
Reel for Pick and Place
Manufacturing.



Anaren
What'll we think of next?™

Typical Performance: 1900 MHz. to 2400 MHz.

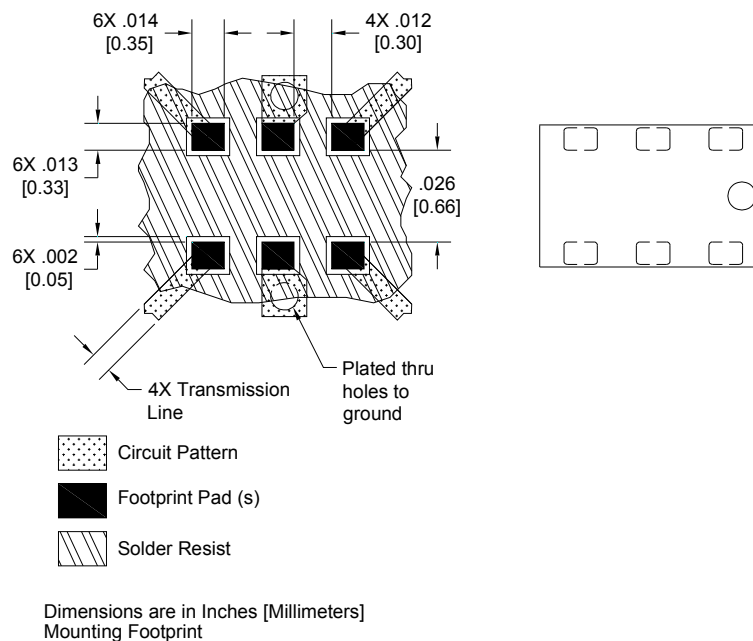


Mounting Configuration:

In order for Xinger surface mount components to work optimally, the proper impedance transmission lines must be used to connect to the RF ports. If this condition is not satisfied, insertion loss, Isolation and VSWR may not meet published specifications.

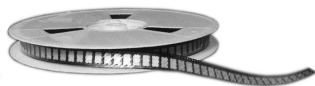
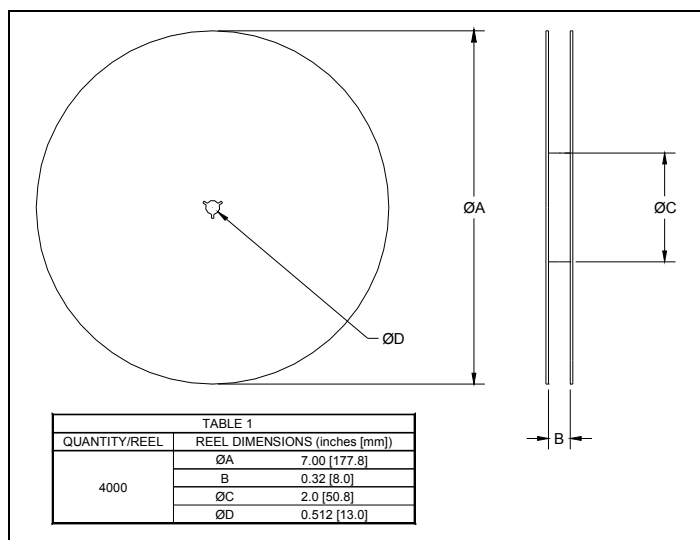
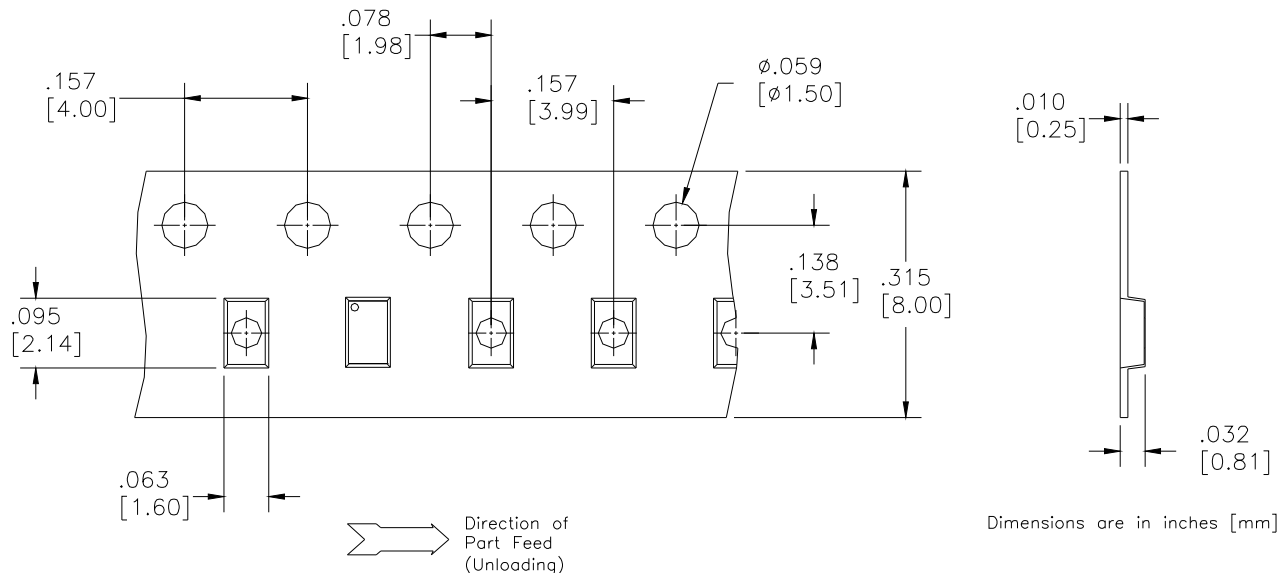
All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

An example of the PCB footprint used in the testing of these parts is shown below. In specific designs, the transmission line widths need to be adjusted to the unique dielectric coefficients and thicknesses as well as varying pick and place equipment tolerances.



Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-2. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel. See Model Numbers below for further ordering information.



AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

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Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

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Email service@ameya360.com

➤ Partnership :

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Email mkt@ameya360.com