捷多邦,专业PCB打样工厂,24小时加急出货



### Model C2023J5003A00

### Ultra Low Profile 0805 3 dB, 90° Hybrid Coupler



#### Description

The C2023J503A00 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 C2023J503A00 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 C2023J503A00 is available on tape and reel for pick and place high volume manufacturing.

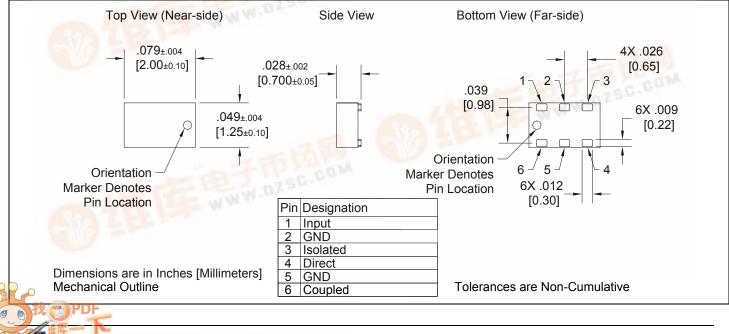
All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C

#### Detailed Electrical Specifications: Specifications subject to change without notice.

		ROOM (25°C)			
Features:	Parameter	Min.	Тур.	Max	Unit
• 2000 – 2300 MHz	Frequency	2000		2300	MHz
<ul> <li>0.7mm Height Profile</li> <li>WiMax, WiBro, UMTS &amp;</li> </ul>	Port Impedance		50		Ω
IMT2000 applications	Return Loss	18	22		dB
Low Insertion Loss	Isolation	21	25		dB
High Isolation	Insertion Loss*		0.3	0.4	dB
Surface Mountable	Amplitude Balance	-	0.1	0.8	dB
Tape & Reel	Phase Balance (relative to 90°)	Sec.	2	6	Degrees
<ul><li>Non-conductive Surface</li><li>RoHS Compliant</li></ul>	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



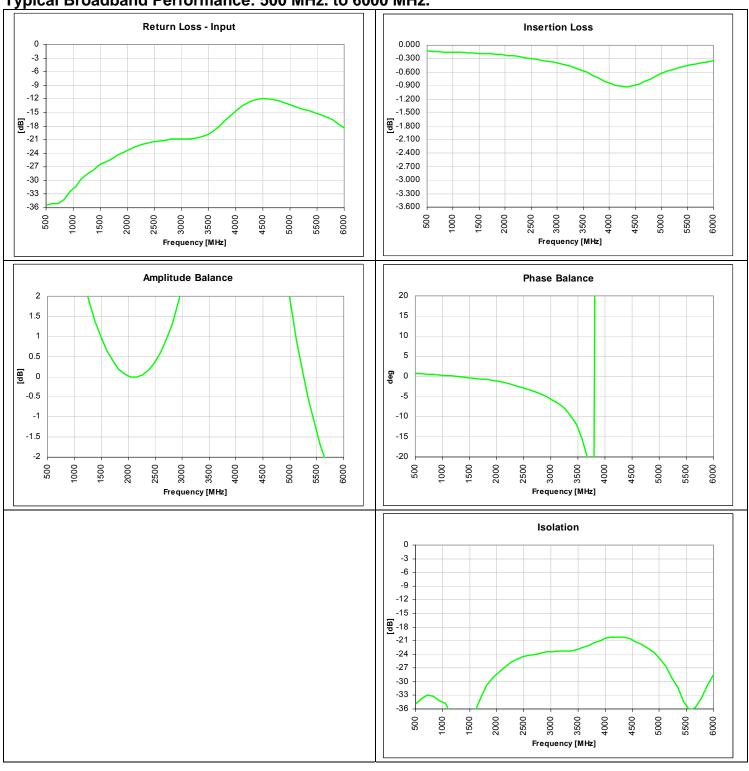
Available on Tape

and Reel for Pick and

USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596

### Model C2023J5003A00

# **Anaren**<sup>®</sup>



#### Typical Broadband Performance: 500 MHz. to 6000 MHz.

USA/Canada: Toll Free: (315) 432-8909 (800) 411-6596

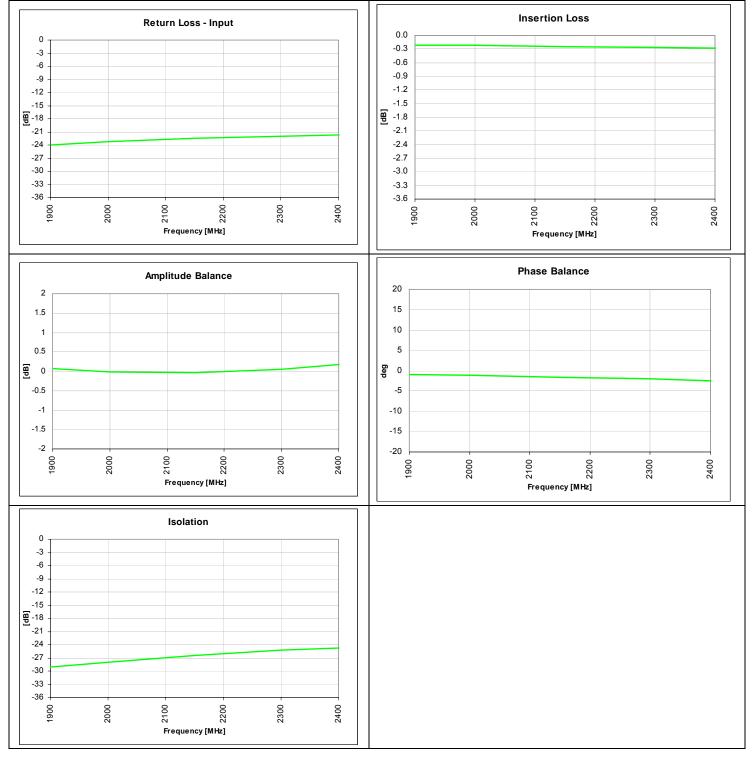
Available on Tape and Reel for Pick and Place





## Model C2023J5003A00

#### Typical Performance: 1900 MHz. to 2400 MHz.







Available on Tape

USA/Canada: Toll Free:

(315) 432-8909 (800) 411-6596

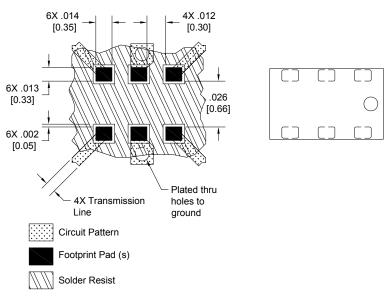


#### Mounting Configuration:

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.



Dimensions are in Inches [Millimeters] Mounting Footprint

USA/Canada: Toll Free: (315) 432-8909 (800) 411-6596

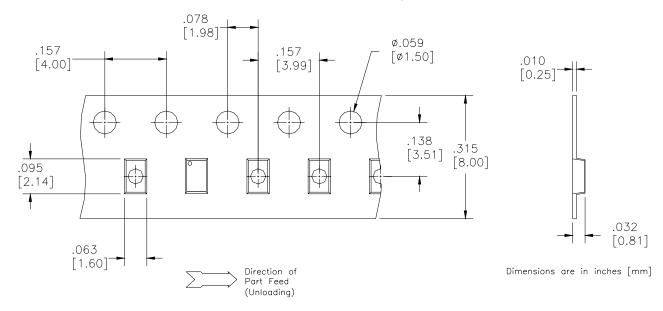
Available on Tape and Reel for Pick and Place

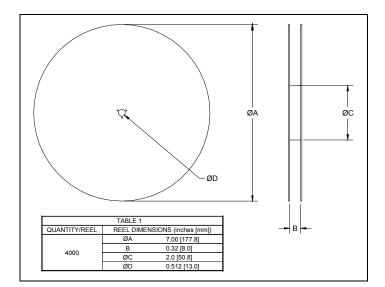




#### Packaging and Ordering Information

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.









Available on Tape

USA/Canada: Toll Free: (315) 432-8909 (800) 411-6596

## Anaren®

# <u>BD 2425 J 50 100 A 00</u>

Function	Frequency	Package Dimensions	Unbalanced Impedance	Balanced Impedance + Coupling	Plating Finish	Codes
B = Balun BD = Balun + DC F = Filter / Balun C = 3dB Coupler DC = Directional J = RF Jumper X = RF cross over	0810 = 800 - 1000 MHz 0922 = 950 - 2150 MHz 0826 = 800 - 2600 MHz 1222 = 1200 - 2200 MHz 1416 = 1400 - 1600 MHz 1722 = 1700 - 2200 MHz 2326 = 2300 - 2600 MHz 2425 = 2400 - 2500 MHz 3150 = 3100 - 5000 MHz		50 = 50 Ohm 75 = 75 Ohm	$\begin{array}{l} 25 = 25 \ \Omega \ \text{Balanced} \\ 30 = 30 \ \Omega \ \text{Balanced} \\ 50 = 50 \ \Omega \ \text{Balanced} \\ 75 = 75 \ \Omega \ \text{Balanced} \\ 100 = 100 \ \Omega \ \text{Balanced} \\ 150 = 150 \ \Omega \ \text{Balanced} \\ 200 = 200 \ \Omega \ \text{Balanced} \\ 300 = 300 \ \Omega \ \text{Balanced} \\ 300 = 300 \ \Omega \ \text{Balanced} \\ 400 = 400 \ \Omega \ \text{Balanced} \\ 03 = 3 \ \text{dB} \ \text{Hybrid} \\ 10 = 10 \ \text{dB} \ \text{Directional} \\ 20 = 20 \ \text{dB} \ \text{Directional} \\ \end{array}$	A = Gold P = Tin-Lead	

USA/Canada: Toll Free: (315) 432-8909 (800) 411-6596

Available on Tape and Reel for Pick and Place

