



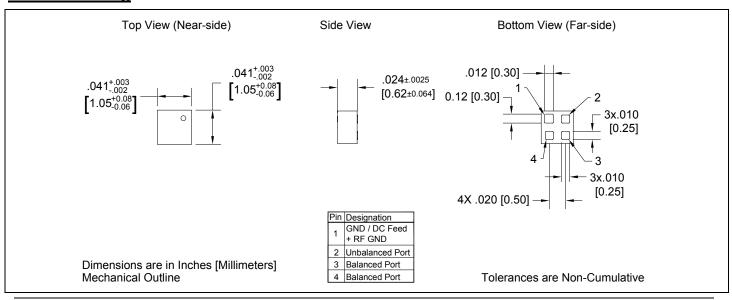
<u>F</u>	е	<u>a</u>	t	u	r	e	S	

- 4800 5900 MHz
- 0.65mm Height Profile
- 50 Ohm to 2 x 37.5 Ohm
- Low Insertion Loss
- 802.11a Uni-Band II & III
- Home Cordless Compliant
- Surface Mountable
- Tape & Reel
- Non-conductive Surface
- RoHS Compliant

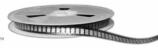
gpomound outjob to diango minout i		ROOM (25°C)		
Parameter	Min.	Тур.	Max	Unit
Frequency	4800		5900	MHz
Unbalanced Port Impedance		50		Ω
Balanced Port Impedance		75		Ω
Return Loss	15	20		dB
Insertion Loss*		0.3	0.5	dB
Amplitude Balance		0.5	1.0	dB
Phase Balance		4	9	Degrees
CMRR		28		dB
Power Handling			1	Watts
Operating Temperature	-55		+85	°C

<sup>\*</sup> Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

#### **Outline Drawing**





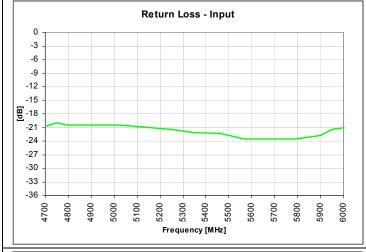


Available on Tape and Reel for Pick and Place Manufacturing.

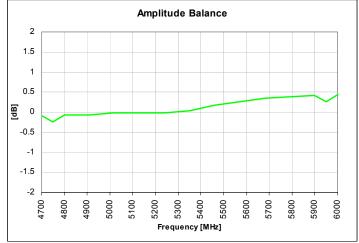
USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392

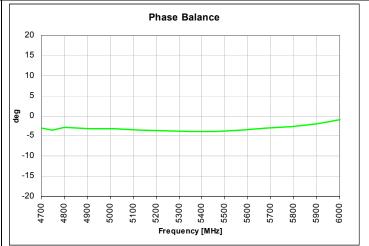


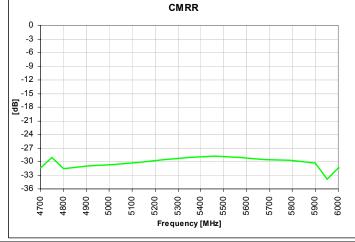
# Typical Performance: 4700 MHz. to 6000 MHz.

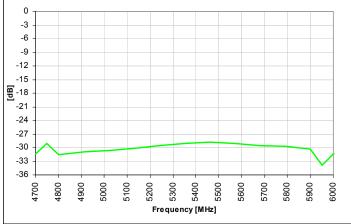








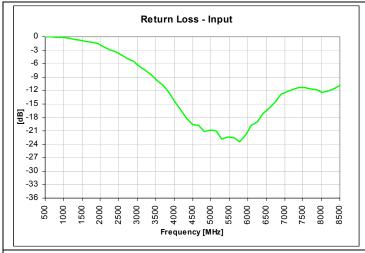


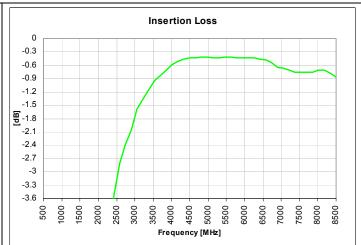


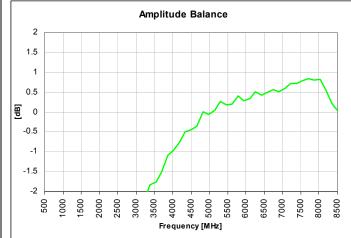


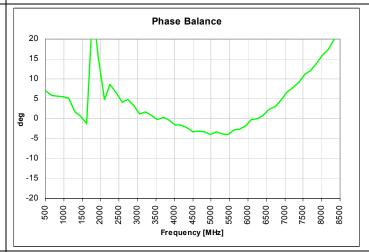


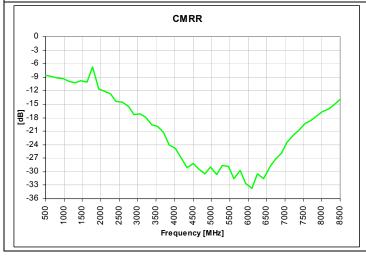
## Wide Band Performance: 500 MHz. to 8500 MHz.













Rev D

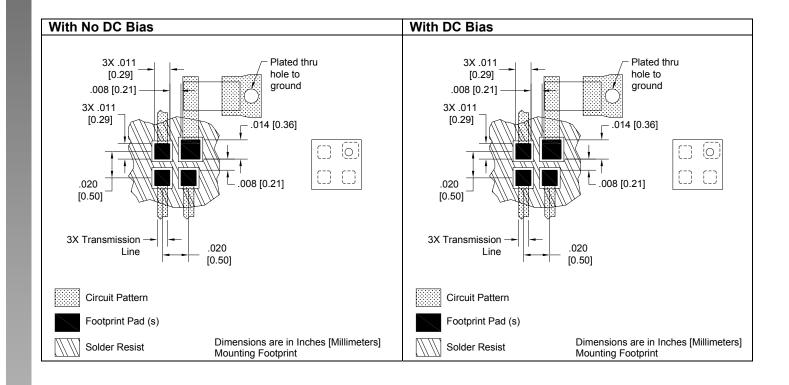


#### **Mounting Configuration:**

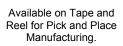
In order for Xinger surface mount components to work optimally, the proper impedance transmission lines must be used to connect to the RF ports. If this condition is not satisfied, insertion loss, Isolation and VSWR may not meet published specifications.

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. An example of a DC-biased footprint is also 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



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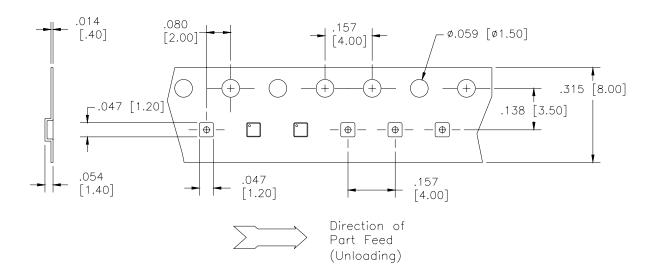


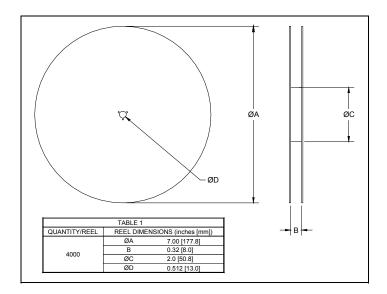




### **Packaging and Ordering Information**

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.









# BD 2425 J 50 100 A 00

Function	Frequency	Package Dimensions	Unbalanced Impedance	Balanced Impedance + Coupling	Finish	Codes
B = Balun BD = Balun + DC F = Filter FB = Filter / Balun C = 3dB Coupler DC = Directional J = RF Jumper X = RF cross over	1416 = 1400 - 1600 MHz 1722 = 1700 - 2200 MHz 2326 = 2300 - 2600 MHz 2425 = 2400 - 2500 MHz 3150 = 3100 - 5000 MHz	A = 150 x 150 mils (4mm * 4mm) C = 120 x 120 mils (3mm * 3mm) E = 100 x 80 mils (2.5mm * 2mm) J = 80 x 50 mils (2mm * 1.25mm) L = 60 x 30 mils (1.5mm * 0.75mm) N = 40 x 40 mils (1mm * 1mm)	50 = 50 Ohm 75 = 75 Ohm	25 = 25 $\Omega$ Balanced 30 = 30 $\Omega$ Balanced 50 = 50 $\Omega$ Balanced 75 = 75 $\Omega$ Balanced 100 = 100 $\Omega$ Balanced 150 = 150 $\Omega$ Balanced 200 = 200 $\Omega$ Balanced 300 = 300 $\Omega$ Balanced 400 = 400 $\Omega$ Balanced 03 = 3dB Hybrid 10 = 10dB Directional 20 = 20dB Directional	A = Gold P = Tin-Lead	

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Available on Tape and Reel for Pick and Place Manufacturing.

