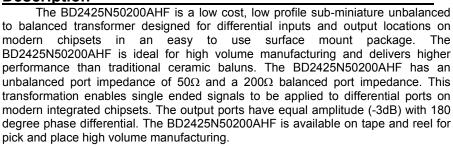






ROOM (25°C)





-55



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

<u> </u>		\ - /			
• 2400 – 2500 MHz	Parameter	Min.	Typ.	Max	Unit
0.56 mm Height Profile	Frequency	2400		2500	MHz
<ul><li>50 Ohm to 2 x 100 Ohm</li><li>Low Insertion Loss</li></ul>	Unbalanced Port Impedance		50		Ω
• 802.11 b+g	Balanced Port Impedance		200		Ω
MIMO b+g	Return Loss	21	27	_	dB
Bluetooth	Insertion Loss*		0.6	0.7	dB
• Zigbee	Amplitude Balance		0.5	1.0	dB
<ul><li>Surface Mountable</li><li>Tape &amp; Reel</li></ul>	Phase Balance		2	6	Degrees
Non-conductive Surface	CMRR		29		dB

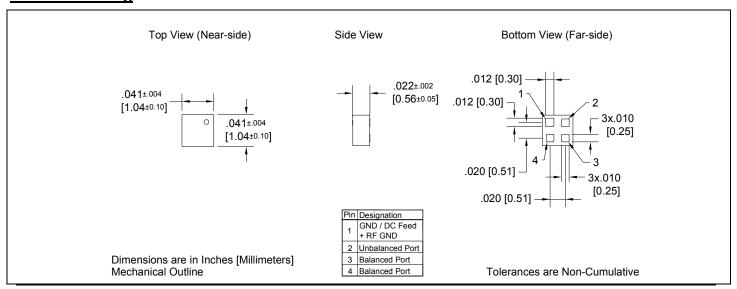
<sup>|</sup> Operating Temperature | \* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

Power Handling

### **Outline Drawing**

**Halogen Free** 

**RoHS Compliant** 







Available on Tape and Reel for Pick and Place Manufacturing.

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

1.0

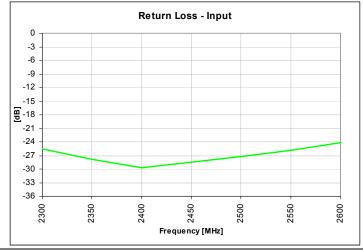
+85

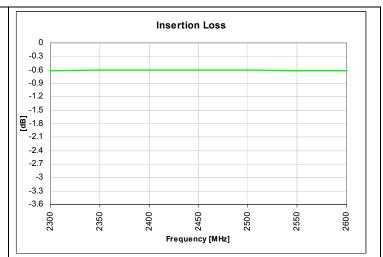
Watts

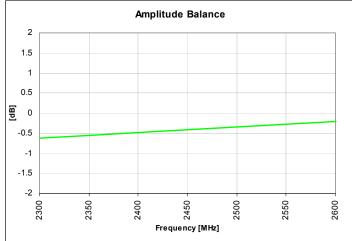
°C

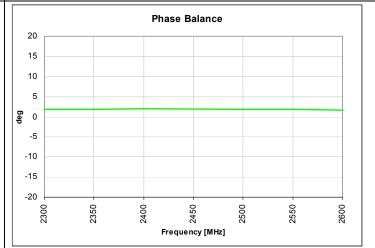


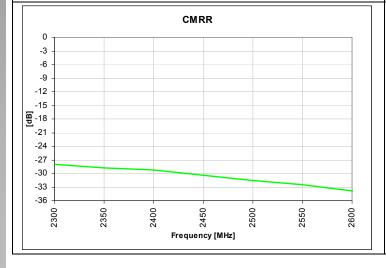
## Typical Performance:2400 MHz. to 2500 MHz.





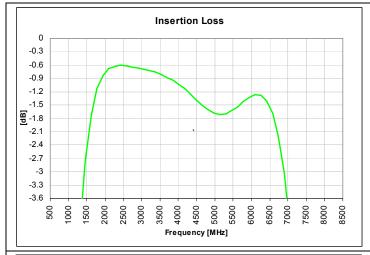


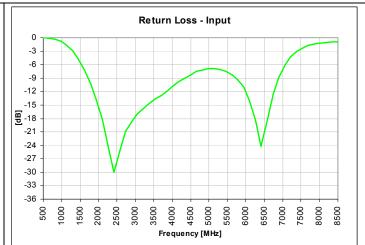


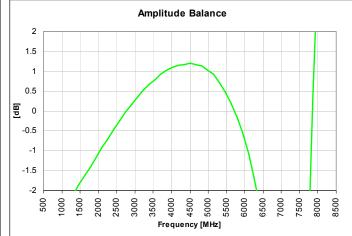


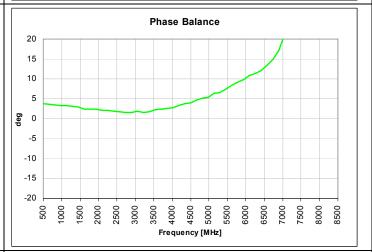


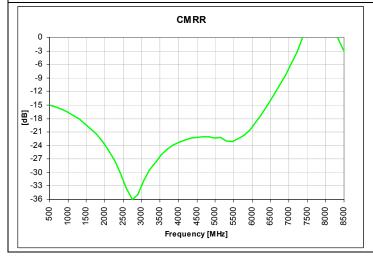
### Wide Band Performance: 500 MHz. to 8500 MHz.











Place Manufacturing.

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# Model BD2425N50200AHF



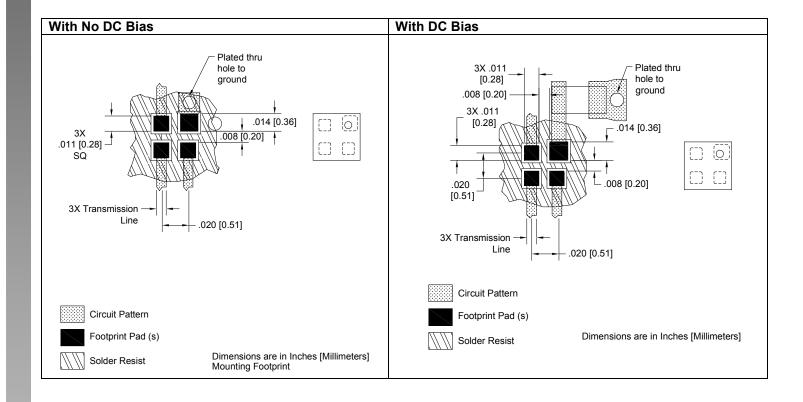


### **Mounting Configuration:**

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.

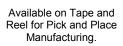
All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

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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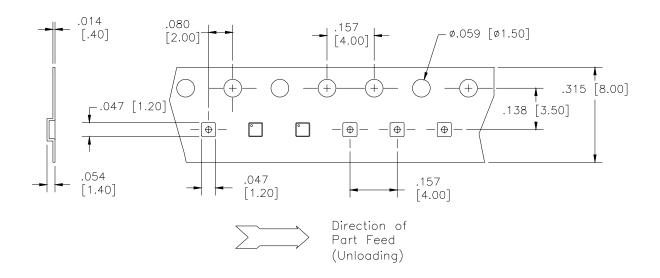


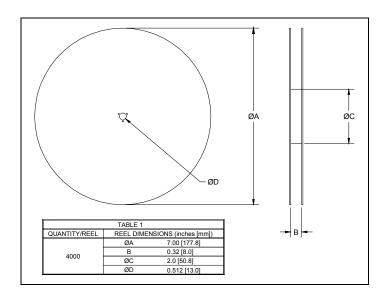




### **Packaging and Ordering Information**

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.







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