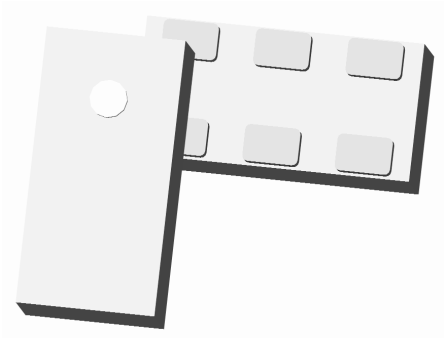
Model BD2326L50200AHF

Rev C

Ultra Small Low Profile 0603 Balun
50Ω to 200Ω Balanced



Description

The BD2326L50200AHF is an ultra-small low profile balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering 802.11b+g+n. The BD2326L50200AHF is ideal for high volume manufacturing and is higher performance than traditional ceramic baluns. The BD2326L50200AHF has an unbalanced port impedance of 50Ω and a 200Ω balanced port impedance. This transformation enables single ended signals to be applied to differential ports on modern integrated chipsets. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD2326L50200AHF is available on tape and reel for pick and place high volume manufacturing.

Features:

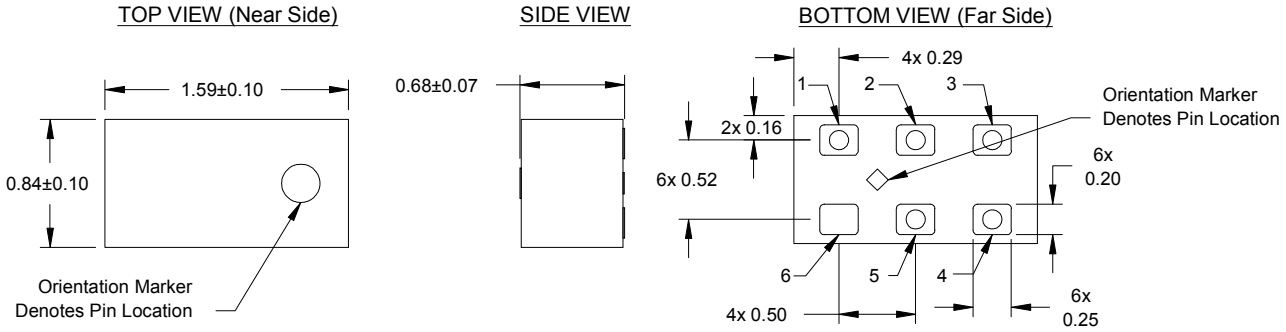
- **2300 – 2600 MHz**
- **0.7mm Height Profile**
- **50 Ohm to 2 x 100 Ohm**
- **802.11 b+g +n Compliant**
- **Low Insertion Loss**
- **Input to Output DC Isolation**
- **Surface Mountable**
- **Tape & Reel**
- **Non-conductive Surface**
- **RoHS Compliant**
- **Halogen Free**

Detailed Electrical Specifications:

Specifications subject to change without notice.

	ROOM (25°C)			
Parameter	**Min.**	**Typ.**	**Max**	**Unit**
Frequency	2300		2600	MHz
Unbalanced Port Impedance		50		Ω
Balanced Port Impedance		200		Ω
Return Loss	12	18		dB
Insertion Loss*		0.9	1.1	dB
Amplitude Balance		0.4	0.8	dB
Phase Balance		3	9	Degrees
CMRR		29		dB
Power Handling			2	Watts
Operating Temperature	-55		+85	ºC

* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 ºC) Outline Drawing



Pin	Designation
1	Unbalanced Port
2	DC Bias/GND
3	Balanced Port
4	Balanced Port
5	GND
6	Not Connected

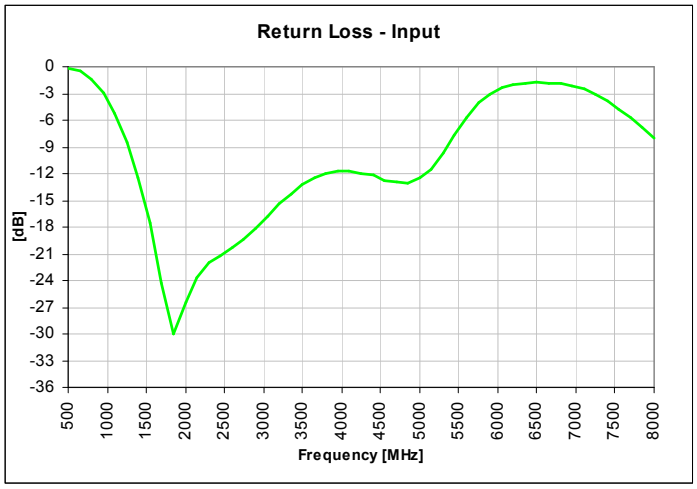
Mechanical Outline
-Dimensions are in Millimeters

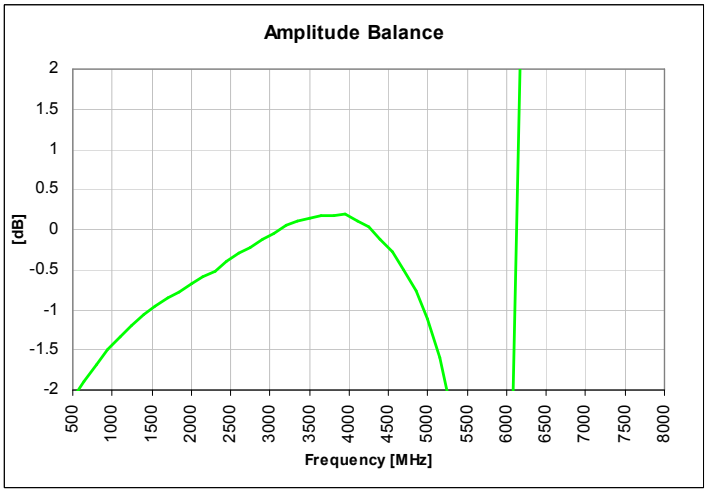
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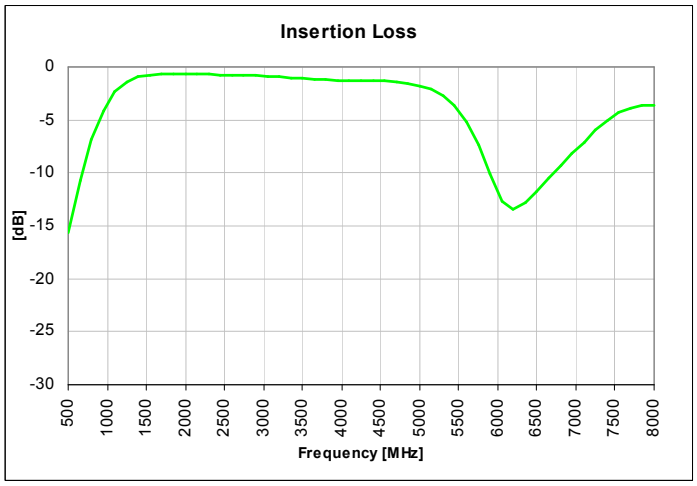
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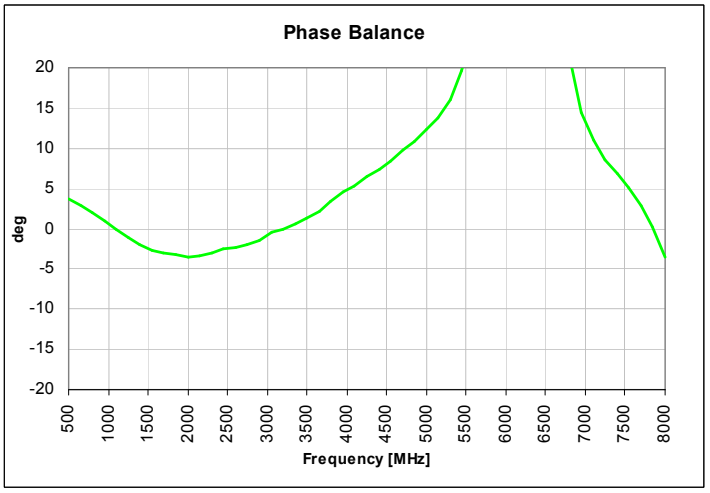
USA/Canada: (315) 432-8909
Toll Free: (800) 411-6596
Europe: +44 2392-232392
Asia: +86 512-62749282

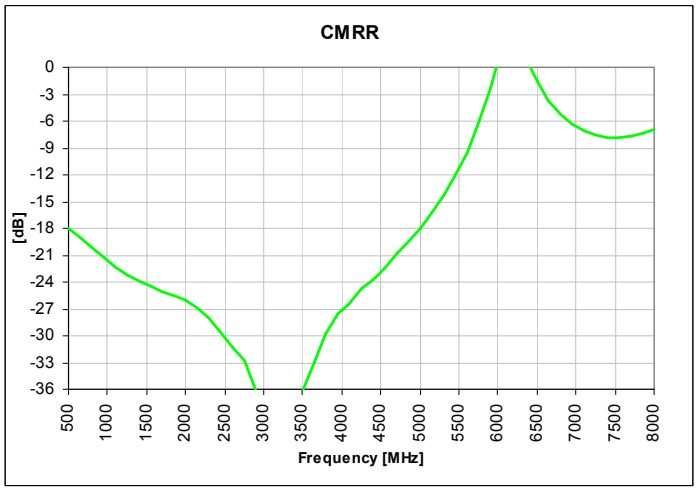
Typical Broadband Performance: 500 MHz. to 8000 MHz.



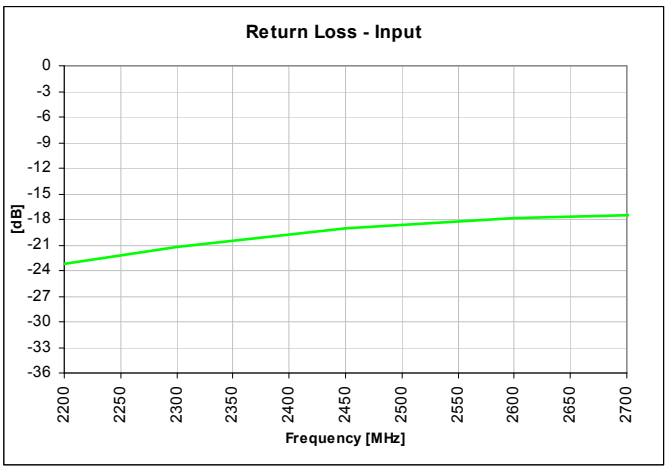


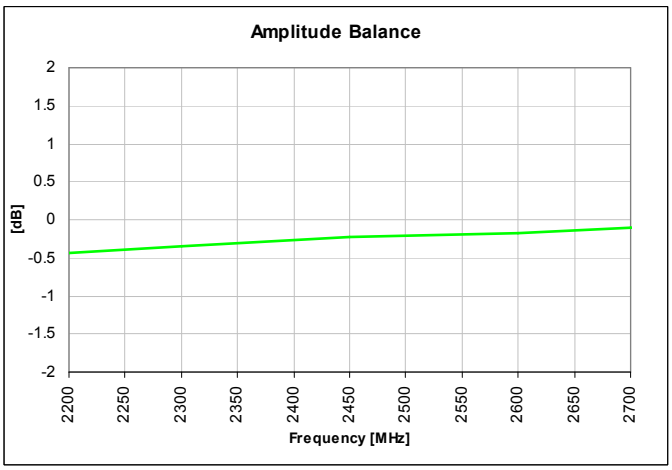


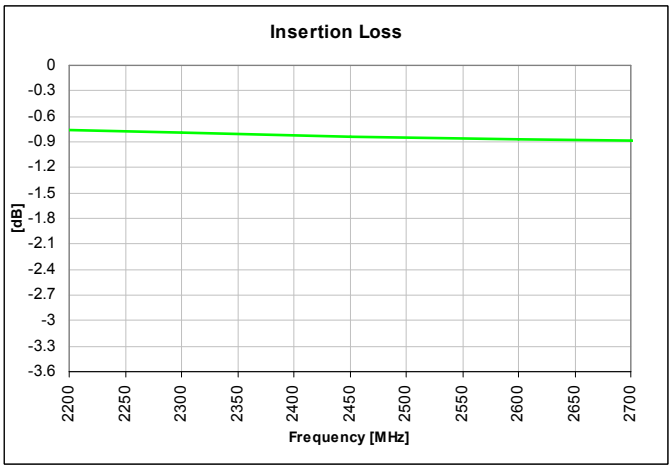


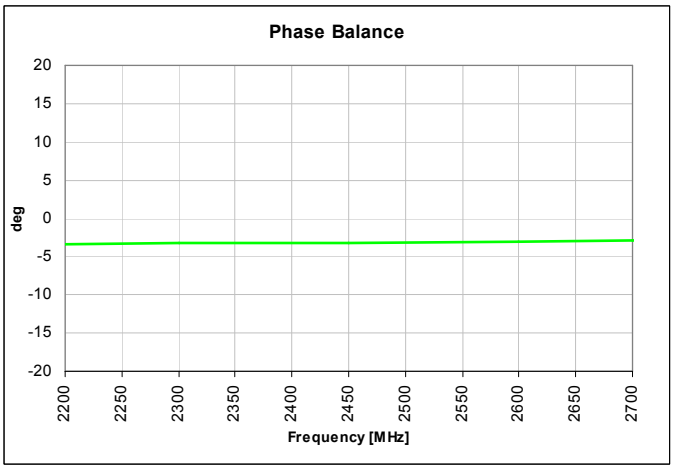


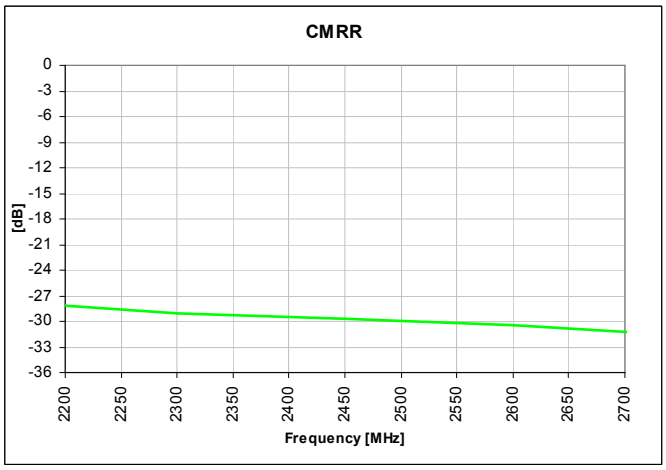
Typical Performance: 2200 MHz. to 2700 MHz.









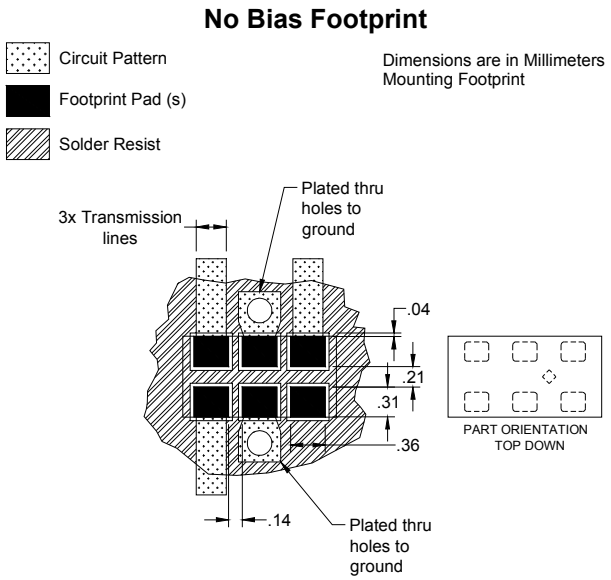


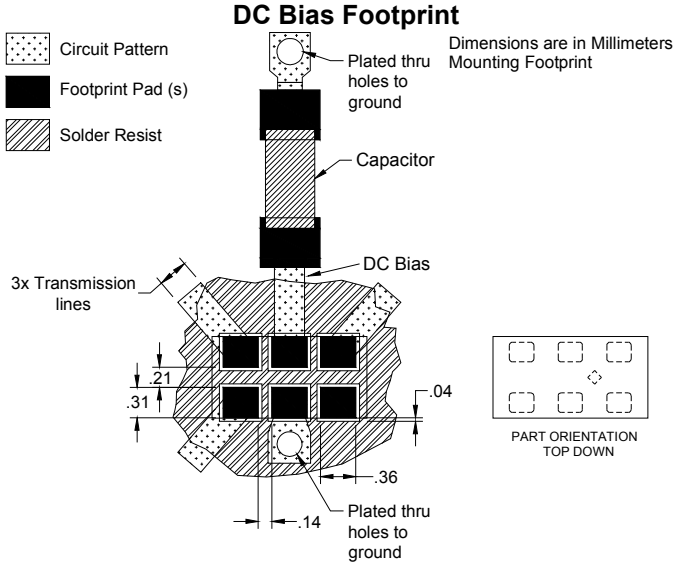
Mounting Configuration:

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 organic PTFE based composites which possess excellent electrical and mechanical stability. Xinger components are compliant to a variety of ROHS and Green standards and ready for Pb-free soldering processes. Pads are Gold plated with a Nickel barrier.

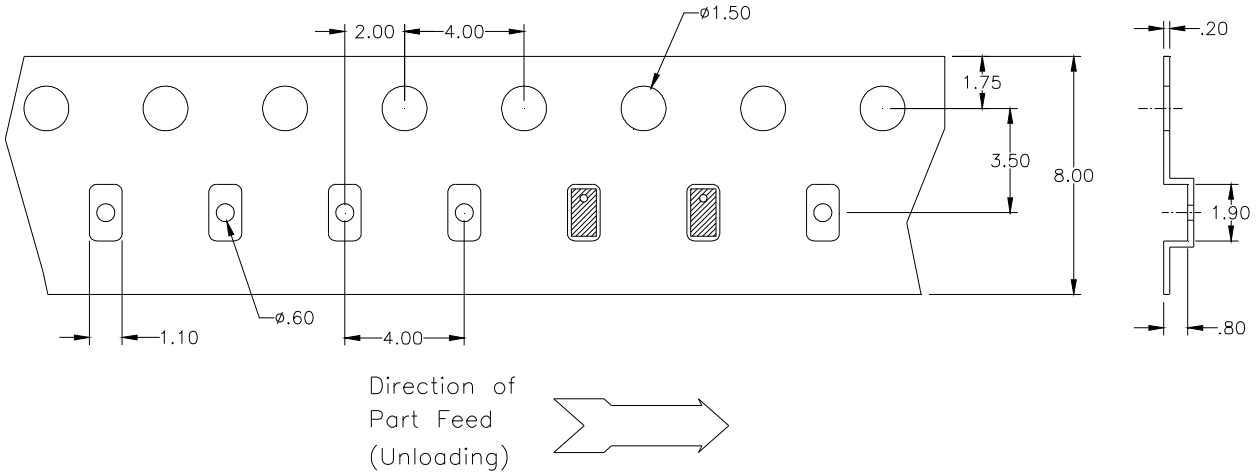
An example of the PCB footprint used in the testing of these parts is shown below. In specific designs, the transmission line widths need to be adjusted to the unique dielectric coefficients and thicknesses as well as varying pick and place equipment tolerances.





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.



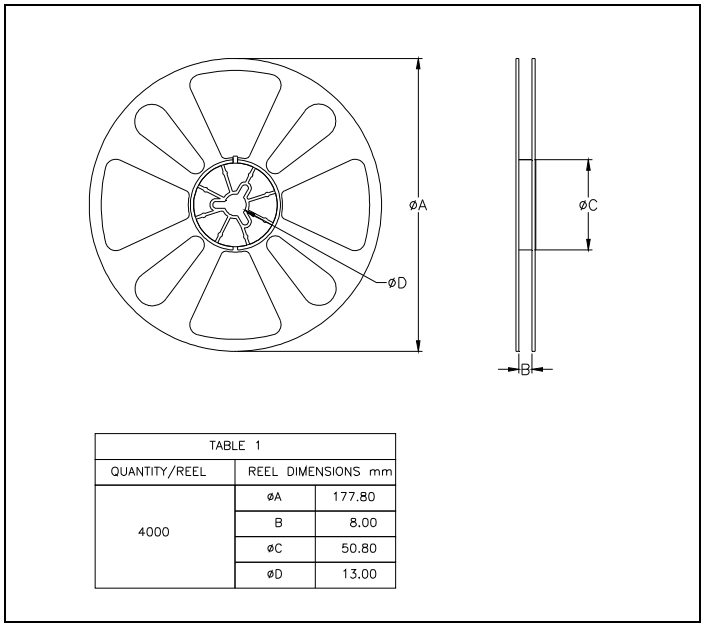


TABLE 1		
QUANTITY/REEL	REEL DIMENSIONS mm	
4000	øA	177.80
	B	8.00
	øC	50.80
	øD	13.00