

Xinger.

Ultra Low Profile 0805 Balun 50Ω to 100Ω Balanced

Description

The BD1631J50100AHF is a low profile sub-miniature 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, GSM, DCS, PCS and UMTS. The BD1631J50100AHF is ideal for high volume manufacturing and is higher performance than traditional ceramic and lumped element baluns. The BD1631J50100AHF has an unbalanced port impedance of 50 Ω and a 100 Ω balanced port impedance*. This transformation enables single ended signals to be applied to differential ports on modern semiconductors. The BD1631J50100AHF is available on tape and reel for pick and place high volume manufacturing.

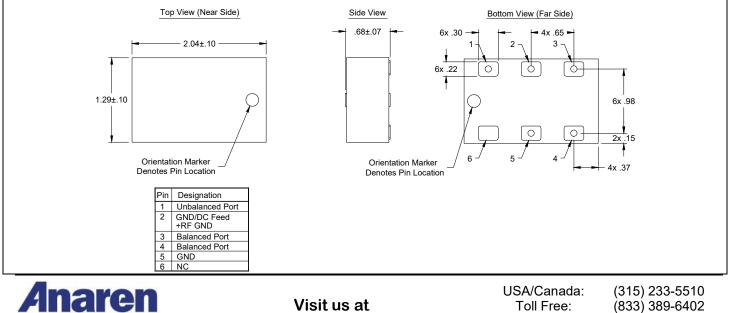
Detailed Electrical Specifications*: Specifications subject to change without notice.

		ROOM (25°C)						
Features:		Mi						
• 1.6 – 3.1 GHz	Parameter	n.	Тур.	Мах	Min.	Тур.	Max	Unit
0.7mm Height Profile	Frequency	2.0		2.5	1.6		3.1	GHz
• 50 Ohm to 2 x 50 Ohm	Unbalanced Port Imp.		50			50		Ω
• 802.11 b & g +n Compliant	Balanced Port Imp.**		100			100		Ω
Low Insertion Loss	Return Loss	14	17		10	13		dB
DCS, PCS & UMTS Compliant	Insertion Loss***		0.6	0.8		0.7	1.0	dB
Input to Output DC Isolation	Amplitude Balance		0.15	0.6		0.7	1.0	dB
Surface Mountable	Phase Balance		2.3	4.8		2.3	4.8	Degrees
Tape & Reel	Power Handling @85°C			0.8			0.8	Watts
Non-conductive Surface Bolds Compliant	Power Handling @105°C			0.5			0.5	Watts
 RoHS Compliant Halogen Free	Operating Temperature	-55		+140	-55		+140	°C

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

Outline Drawing

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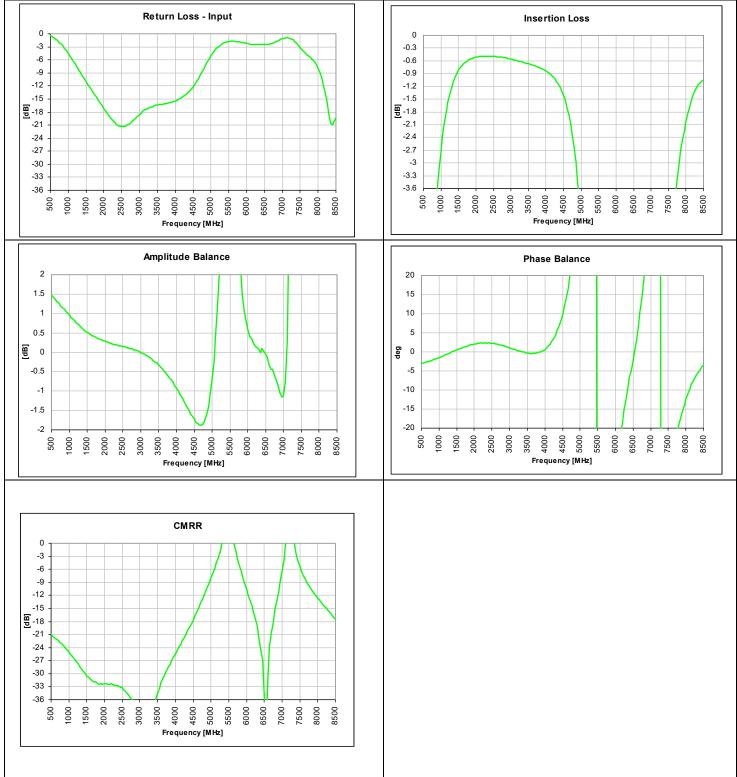
 Foll Free:
 (833) 389-6402

 Europe:
 +44 2392-232392

 Asia:
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Typical Broadband Performance: 500 MHz to 8500 MHz.



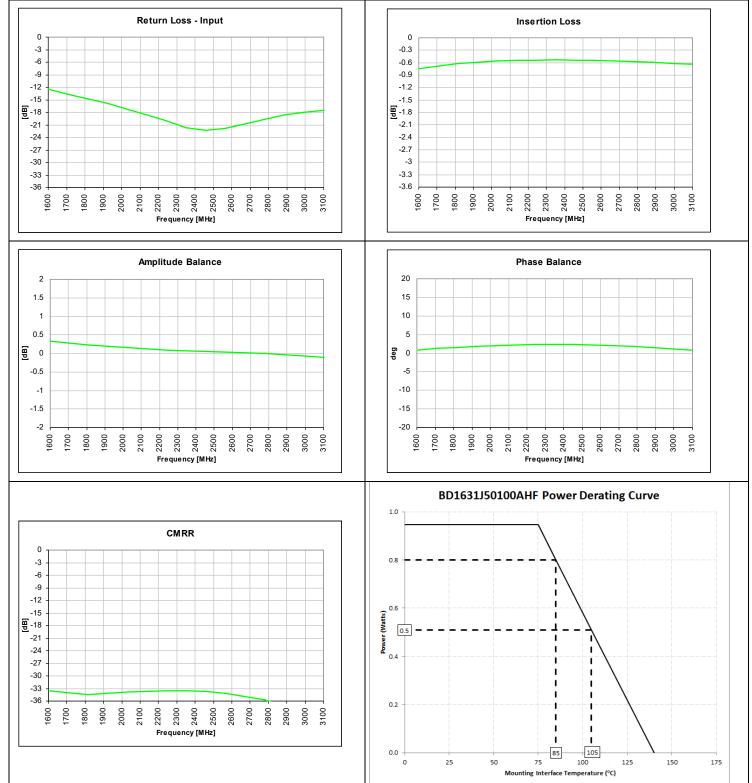


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Model BD1631J50100AHF

Typical Performance: 1600 MHz to 3100 MHz





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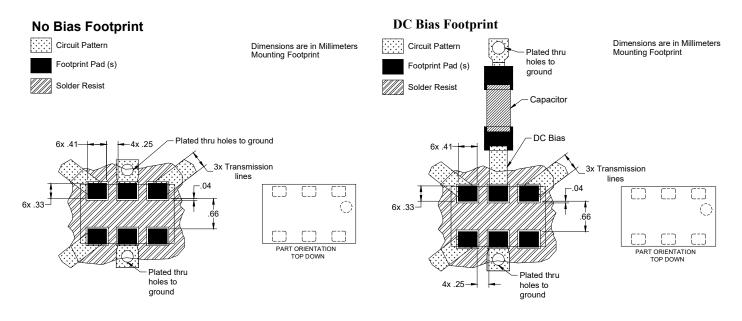


Mounting Configuration:

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. 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.



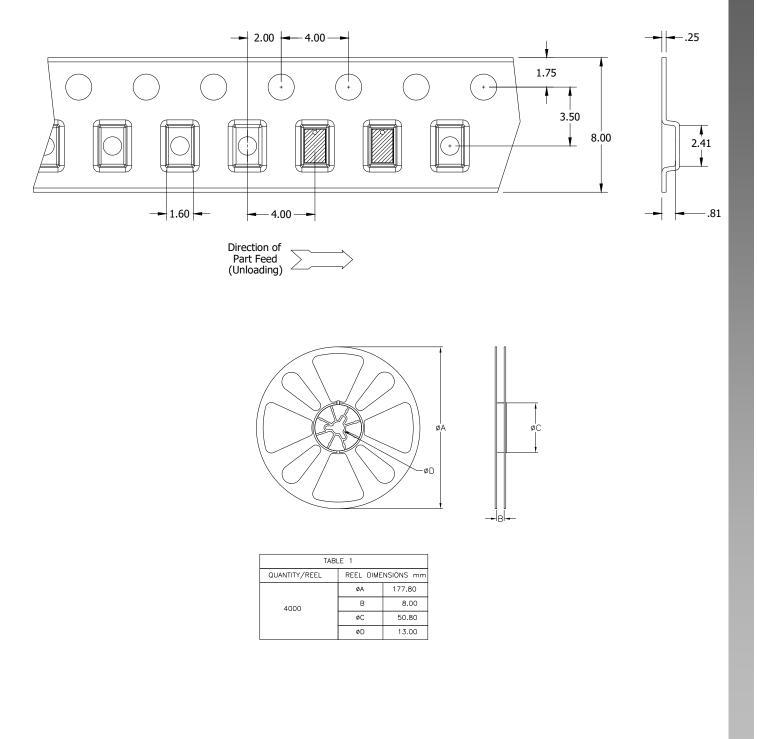


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Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-D. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel.





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