

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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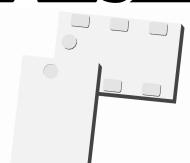












Ultra Low Profile 0805 Balun 50Ω to 100Ω Balanced

Description

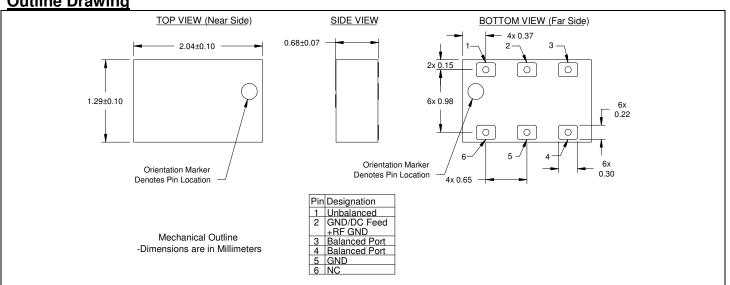
The BD1631J50100AHF is a low profile sub-miniature balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering 802.11b+g+n, GSM, DCS, PCS and UMTS. The BD1631J50100AHF is ideal for high volume manufacturing and is higher performance than traditional ceramic and lumped element baluns. The BD1631J50100AHF has an unbalanced port impedance of 50Ω and a 100Ω balanced port impedance*. This transformation enables single ended signals to be applied to differential ports on modern semiconductors. The output ports have equal amplitude (-3dB) with 180 degree phase differential. 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:	Parameter	Min.	Тур.	Max	Min.	Тур.	Max	Unit
• 1.6 – 3.1 GHz	Frequency	2.0		2.5	1.6		3.1	GHz
0.7mm Height Profile50 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	Insertion Loss***		0.6	0.8		0.7	1.0	dB
Compliant	Amplitude Balance		0.15	0.6		0.7	1.0	dB
Input to Output DC IsolationSurface Mountable	Phase Balance		2.3	4.8		2.3	4.8	Degrees
Tape & Reel	Power Handling @85C			8.0			0.8	Watts
Non-conductive Surface	Power Handling @100C			0.55			0.55	Watts
RoHS Compliant	Power Handling @105C			0.48			0.48	Watts
Halogen Free	Operating Temperature	-55		+105	-55		+105	<u>o</u> C

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

Outline Drawing



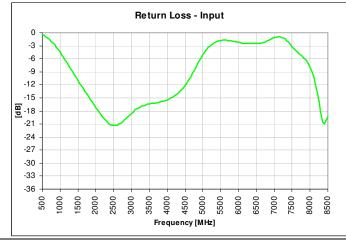


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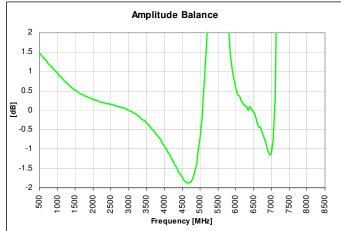
Rev H

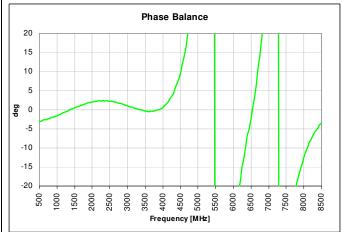


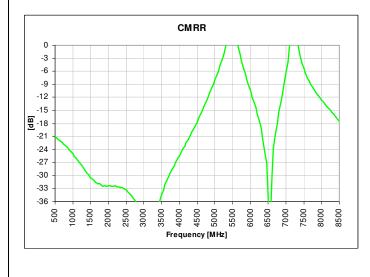
Typical Broadband Performance: 500 MHz to 8500 MHz.













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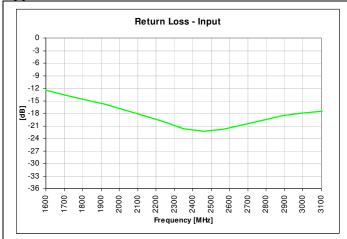
Asia: +86 512-62749282

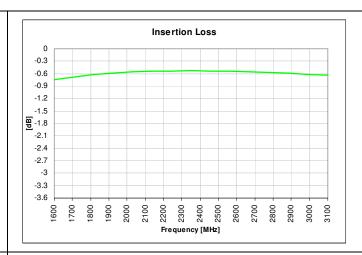


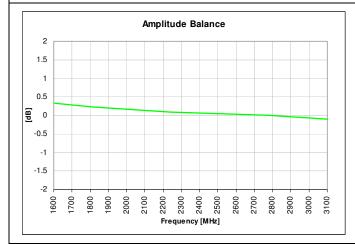


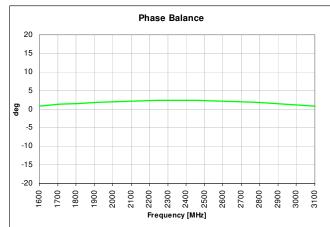


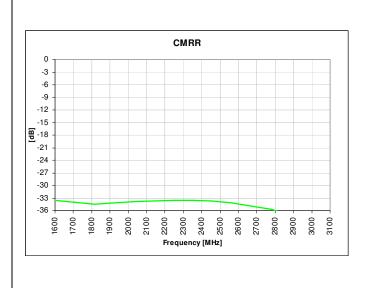
Typical Performance: 1600 MHz to 3100 MHz

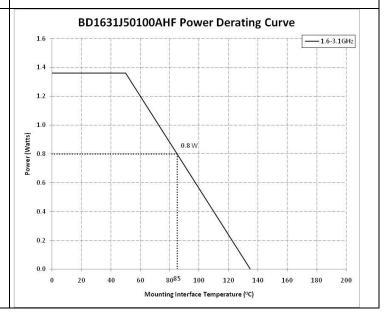














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Rev H

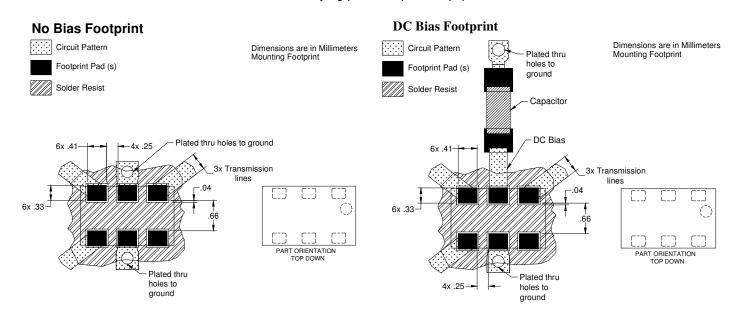


Mounting Configuration:

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.





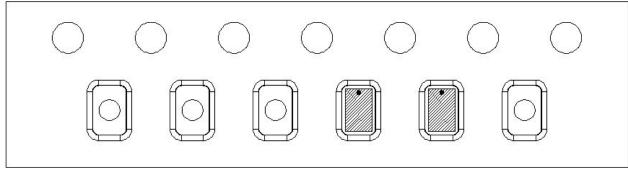
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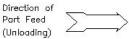




Packaging and Ordering Information

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.





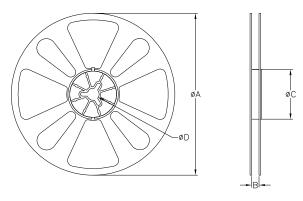


TABLE 1								
QUANTITY/REEL	REEL DIMENSIONS mm							
	ØA	177.80						
4000	В	8.00						
	ΦC	50.80						
	ØD	13.00						