imall

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!



Contact us

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Ultra Low Profile 0805 Balun 50Ω to 100Ω Balanced

Description

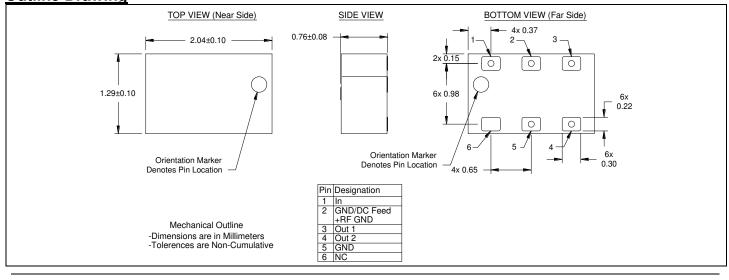
The BD0810J50100AHF is a low profile sub-miniature balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering the GSM frequency. The BD0810J50100AHF is ideal for high volume manufacturing and is higher performance than traditional ceramic and lumped element baluns. The BD0810J50100AHF 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 output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD0810J50100AHF 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
• 700 – 1600 MHz	Frequency	800		1000	700		1600	MHz
 0.8mm Height Profile 50 Ohm to 2 x 50 Ohm 	Unbalanced Port Impedance		50			50		Ω
 GSM 	Balanced Port Impedance		100			100		Ω
Low Insertion Loss	Return Loss	13	15		11	14		dB
Input to Output DC	Insertion Loss*		0.70	0.95		0.9	1.2	dB
Isolation	Amplitude Balance		0.2	0.4		0.3	0.6	dB
Surface Mountable	Phase Balance		1	2		1	3	Degrees
 Tape & Reel Non-conductive 	CMRR		39			35		dB
Surface	Power Handling @85C			2			2	Watts
RoHS Compliant	Power Handling @105C			1.2			1.2	Watts
Halogen Free	DC Current Rating			300			300	mA
	Operating Temperature	-55		+105	-55		+105	°C

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

Outline Drawing

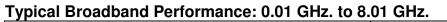


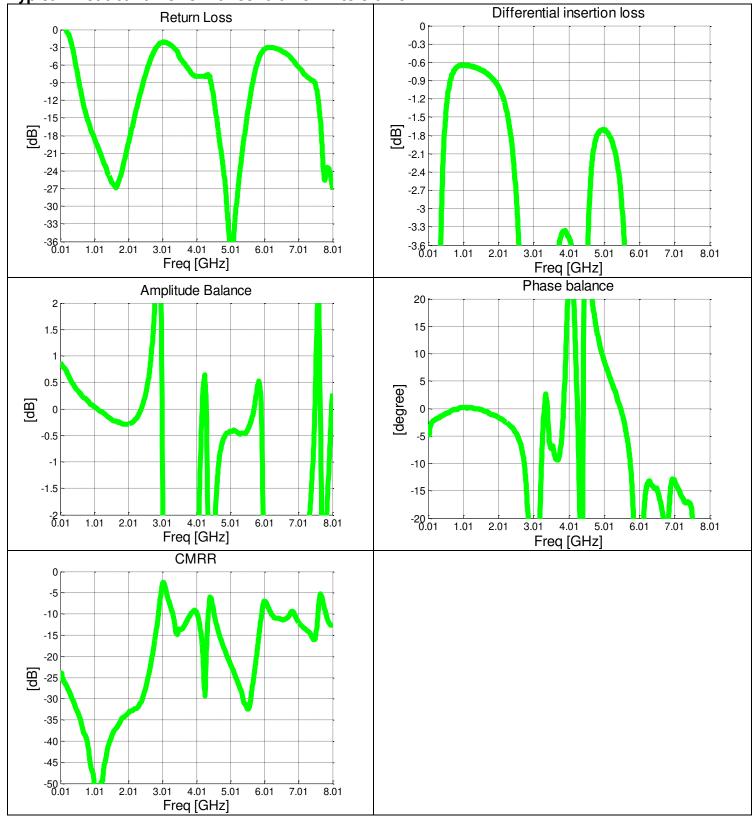


Visit us at www.anaren.com

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







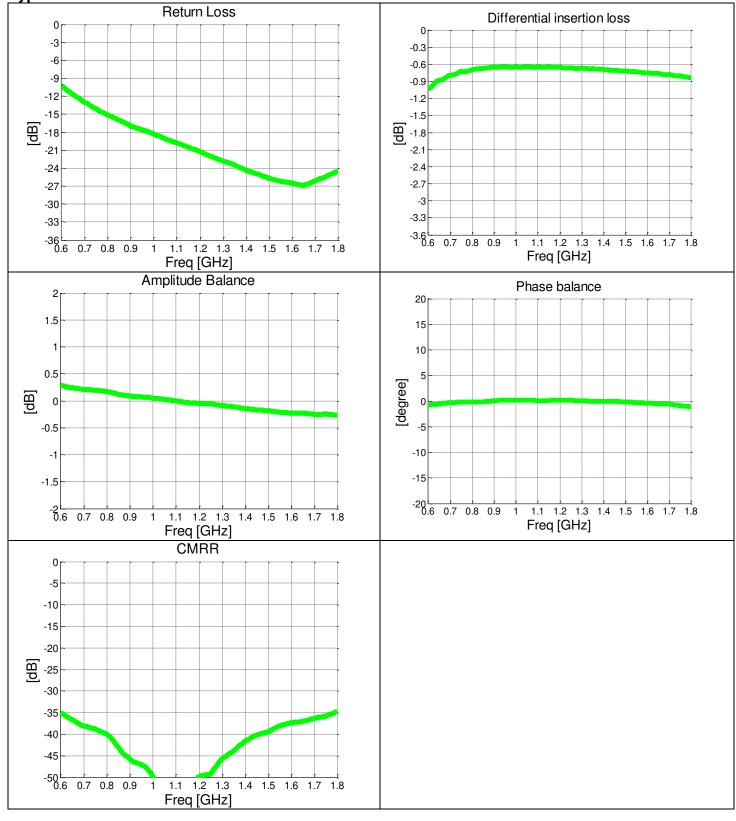


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Typical Performance: 600 MHz to 1800 MHz





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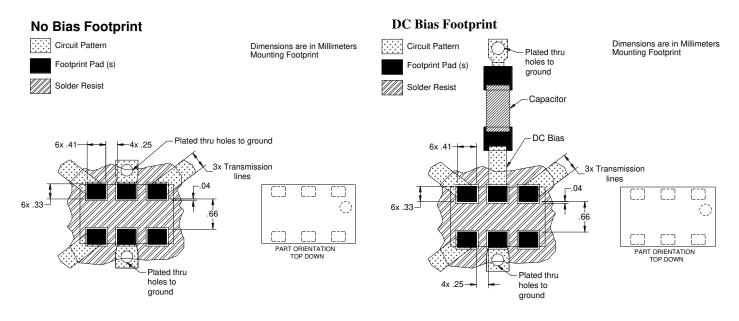


Mounting Configuration:

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.







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.

