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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Ultra Low Profile 0404 Balun 50Ω to 100Ω Balanced

+44 2392-232392

+86 512-62749282

Europe: Asia:

Description

The BD3150N50100AHF is a low cost, low profile sub-miniature unbalanced to balanced transformer designed for differential inputs and output locations on modern chipsets in an easy to use surface mount package covering the MMDS and the low end of the UWB frequency range. The BD3150N50100AHF is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD3150N50100AHF 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 integrated chipsets. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD3150N50100AHF is available on tape and reel for pick and place high volume manufacturing.

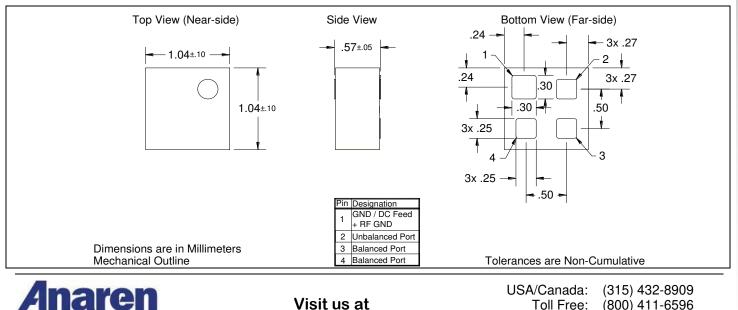
Detailed Electrical Specifications: Specifications subject to change without notice.

		ROOM (25°C)						
Features:	Parameter	Min.	Тур.	Max	Min.	Тур.	Max	Unit
• 3100 – 5000 MHz	Frequency	3100		5000	5000		7000	MHz
• 0.57mm Height Profile	Unbalanced Port Impedance		50			50		Ω
 50 Ohm to 2 x 50 Ohm Low Insertion Loss 	Balanced Port Impedance		100			100		Ω
UWB & MMDS	Return Loss	13	15		10	14		dB
Surface Mountable	Insertion Loss*		0.7	0.9		0.7	0.9	dB
Tape & Reel	Amplitude Balance		0.8	1.5		0.8	1.3	dB
Non-conductive Surface	Phase Balance		3	7		15	20	Degrees
 RoHS Compliant Halogen Free	CMRR		26			17		dB
	Power Handling @85C			1.0			1.0	Watts
	Power Handling @105C			0.6			0.6	Watts
	Operating Temperature	-55		+105	-55		+105	°C

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

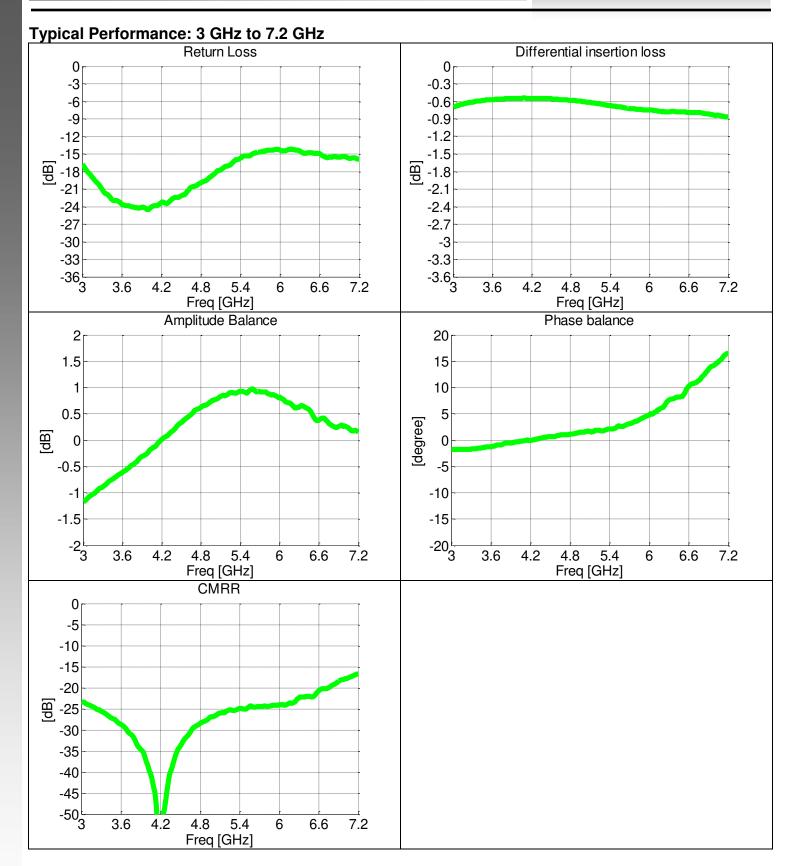
Outline Drawing

What'll we think of next?"



www.Anaren.com



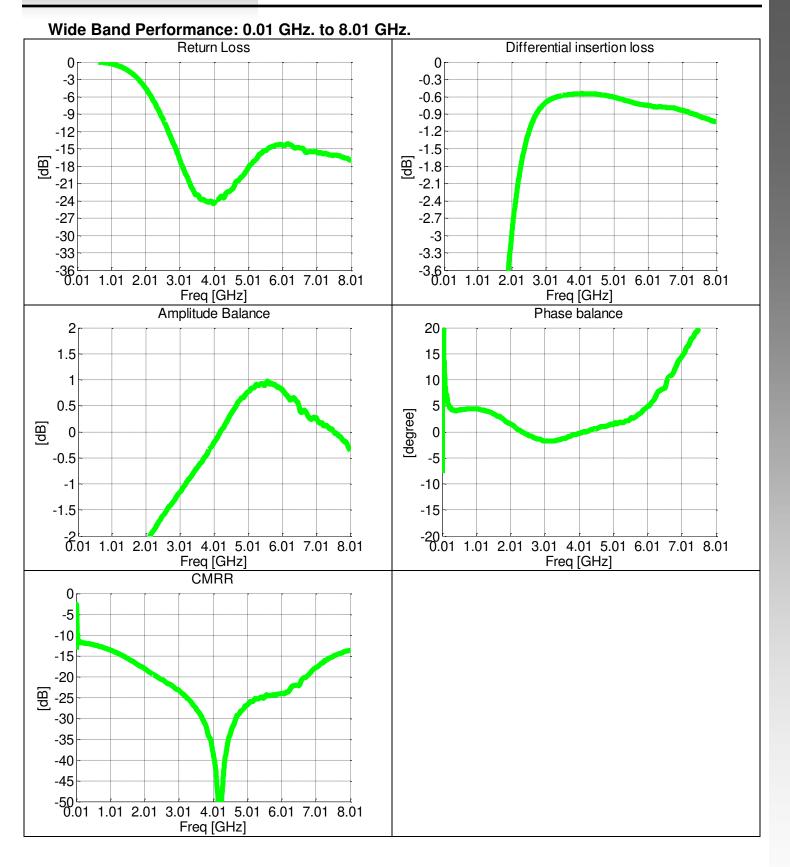




Visit us at www.Anaren.com

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







Visit us at www.Anaren.com

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

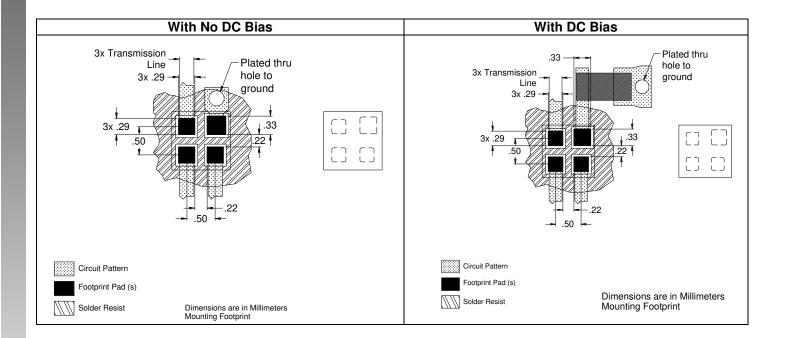


Mounting Configuration:

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

