

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



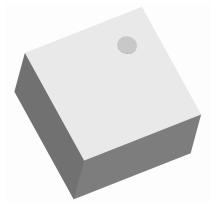












Description

The BD1416N50100AHF is a low profile sub-miniature unbalanced to balanced transformer designed for differential inputs and output locations on modern chipsets specifically in the GPS, GLONASS, WiMAX 1.5 (legacy TDM) and US DVB-H space and in an easy to use surface mount package. The BD1416N50100AHF is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD1416N50100AHF has an unbalanced port impedance of 50Ω and a 50Ω 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 BD1416N50100AHF is available on tape and reel for pick and place high volume manufacturing.

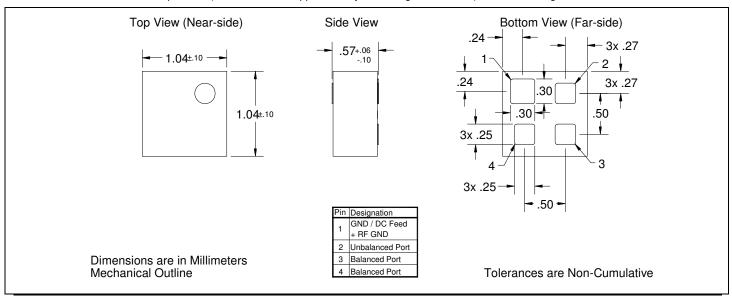
Detailed Electrical Specifications: Specifications subject to change without notice.

Features:

- 1400 1600 MHz
- 0.57 mm Height Profile
- 50 Ohm to 2 x 50 Ohm
- Low Insertion Loss
- Class Leading CMRR
- Targeted At GPS, GLONASS, WiMAX 1.5 (legacy TDM) & US DVB-H Markets
- Surface Mountable
- Tape & Reel
- Non-Conductive Top Surface
- RoHS Compliant
- Halogen Free

Specifications subject to charge without notice.					
	ROOM (25°C)				
Parameter	Min.	Тур.	Max	Unit	
Frequency	1400		1600	MHz	
Unbalanced Port Impedance		50		Ω	
Balanced Port Impedance		100		Ω	
Return Loss	14	18		dB	
Insertion Loss*		0.7	0.9	dB	
Amplitude Balance		0.8	1.2	dB	
Phase Balance		4	9	Degrees	
CMRR		26		dB	
Power Handling @85C			0.75	Watts	
Power Handling @105C			0.45	Watts	
Operating Temperature	-55		+105	<u>°</u> C	

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

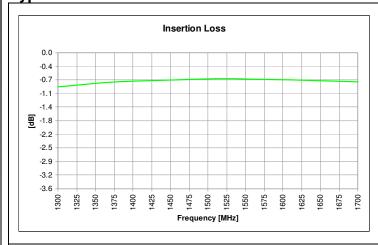


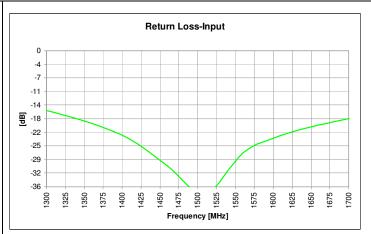


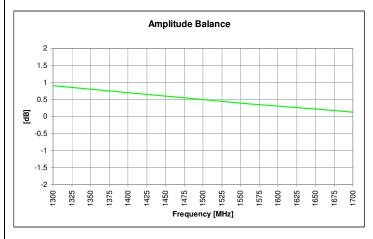
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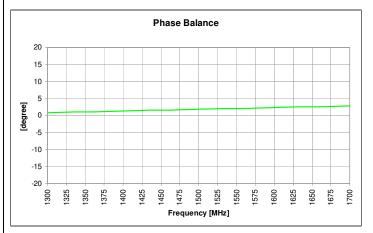


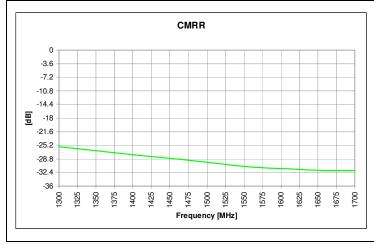
Typical Performance:1300 MHz. to 1700 MHz.







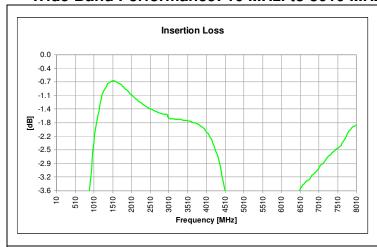


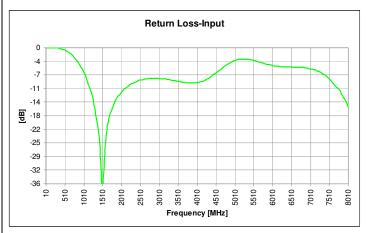


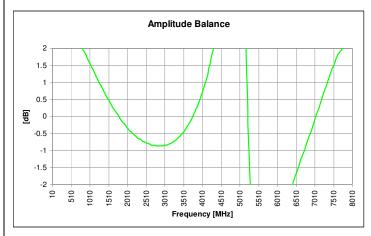


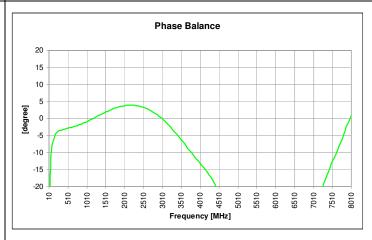


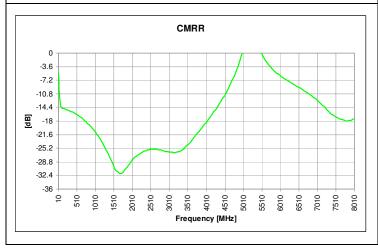
Wide Band Performance: 10 MHz. to 8010 MHz.











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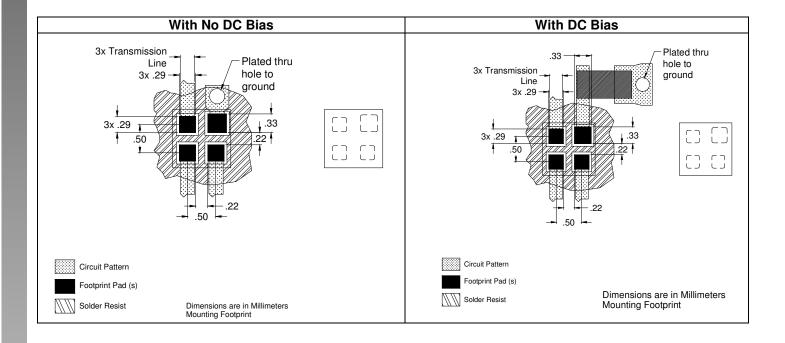


Mounting Configuration:

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. 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.



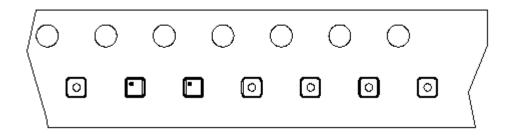


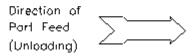
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Packaging and Ordering Information

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.





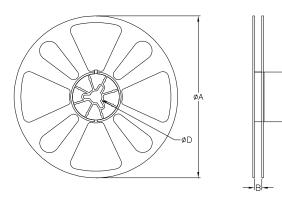


TABLE 1					
QUANTITY/REEL	REEL DIME	NSIONS mm			
4000	ØΑ	177.80			
	В	8.00			
	øC	50.80			
	øD	13.00			