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 150Ω Balanced

Description

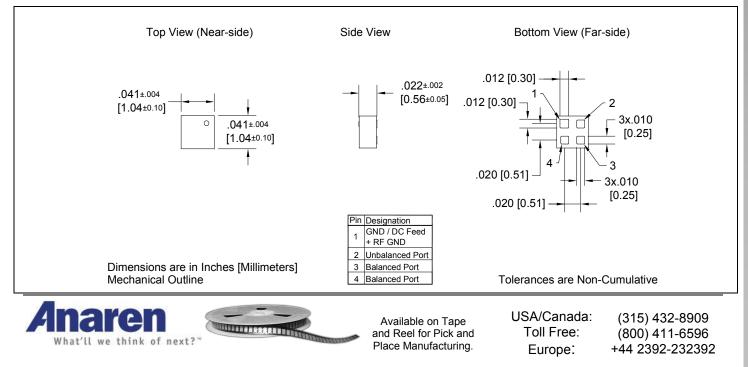
The BD4859N50150AHF is a low cost, low profile sub-miniature unbalanced to balanced transformer designed for differential inputs and output locations on modern chipsets in an easy to use surface mount package covering 802.11a Uni-Band II & III and the Japanese ISM band (4.9 GHz). The BD4859N50150AHF is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD4859N50150AHF has an unbalanced port impedance of 50 Ω and a150 Ω 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 BD4859N50150AHF 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)			
<u>Features:</u>	Parameter	Min.	Тур.	Мах	Unit
 4800 – 5900 MHz 0.56 mm Height Profile 50 Ohm to 2 x 75 Ohm Low Insertion Loss 	Frequency	4800		5900	MHz
	Unbalanced Port Impedance		50		Ω
	Balanced Port Impedance		150		Ω
• 802.11a Uni-Band II & III	Return Loss	12	17		dB
Home Cordless Compliant	Insertion Loss*		0.4	0.6	dB
 Surface Mountable Tape & Reel Non-conductive Surface RoHS Compliant Halogen Free 	Amplitude Balance		0.8	1.4	dB
	Phase Balance		4	10	Degrees
	CMRR		26		dB
	Power Handling			1.0	Watts
	Operating Temperature	-55		+85	°C

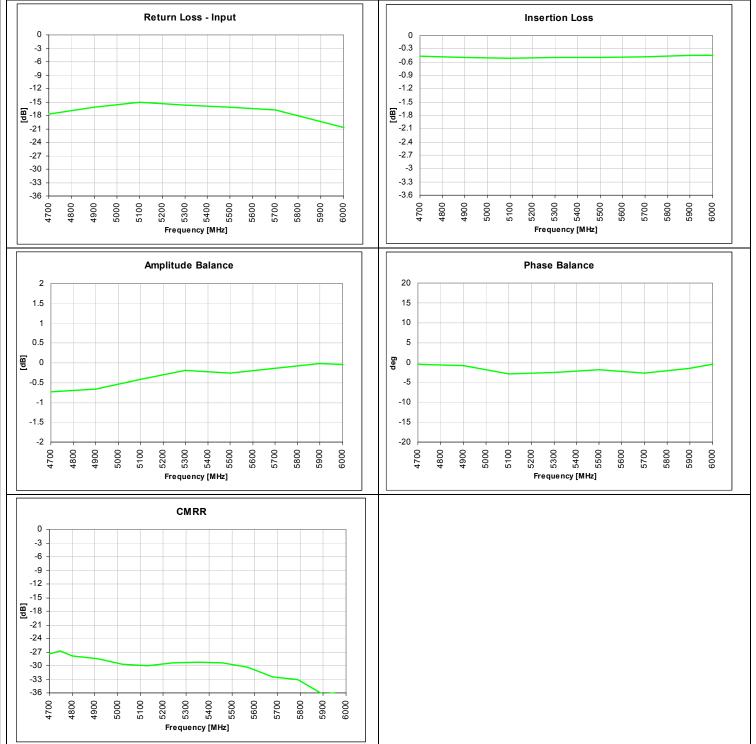
Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

Outline Drawing





Typical Performance:4700 MHz. to 6000 MHz.



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

Available on Tape and Reel for Pick and Place Manufacturing.

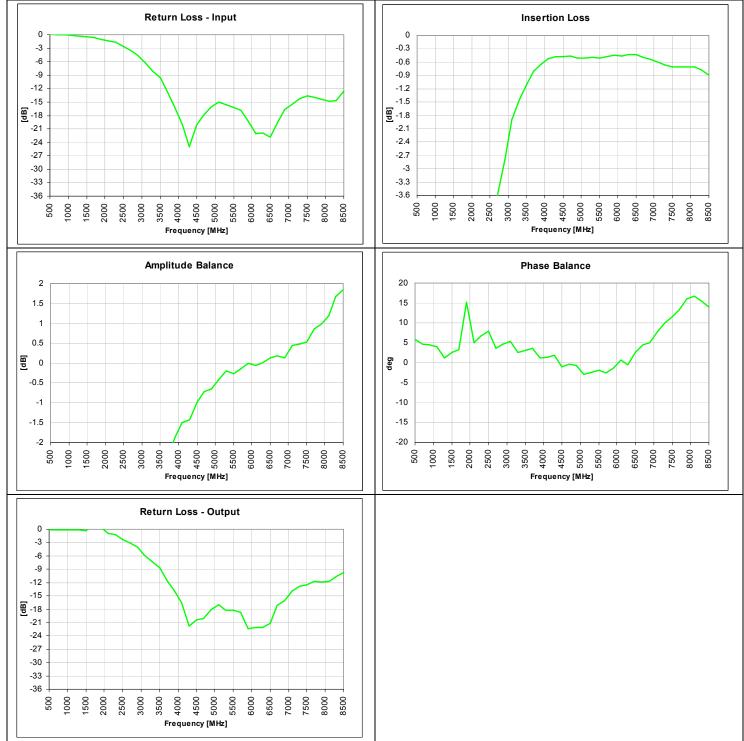




Model BD4859N50150AHF

Rev A

Wide Band Performance: 500 MHz. to 8500 MHz.





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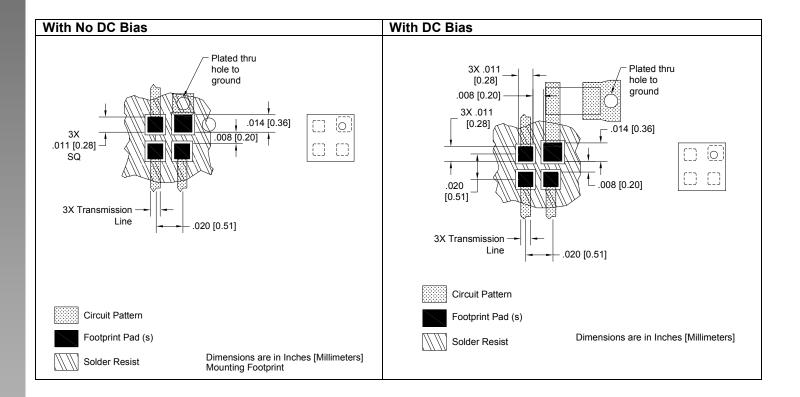


Mounting Configuration:

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 ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

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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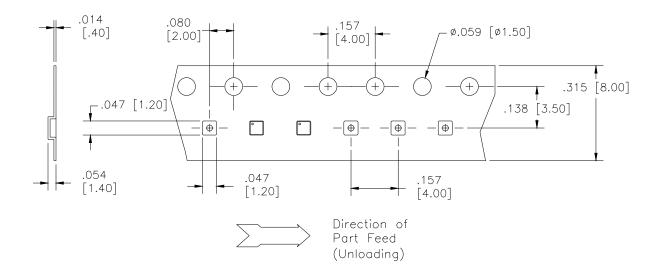
Available on Tape and Reel for Pick and Place Manufacturing.

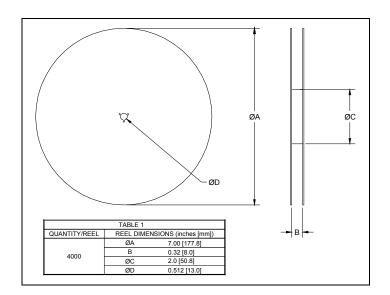




Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-2. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel. See Model Numbers below for further ordering information.







Available on Tape and Reel for Pick and Place Manufacturing. USA/Canada: Toll Free: Europe:

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