



## 捷多邦,专业PCB打样工厂,24小时加急出货

Model BD3150L50100A00

### Ultra Small Low Profile 0603 Balun 50Ω to 100Ω Balanced

#### Description

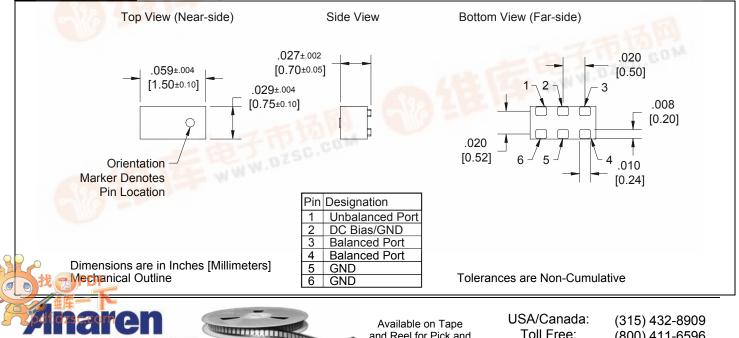
The BD3150L50100A00 is an ultra-small low profile balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering the MMDS and the low end of the UWB frequency ranges. The BD3150L50100A00 is ideal for high volume manufacturing and is higher performance than traditional ceramic baluns. The BD3150L50100A00 has an unbalanced port impedance of  $50\Omega$  and a  $100\Omega$ 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 BD3150L50100A00 is available on tape and reel for pick and place high volume manufacturing. COM

#### Detailed Electrical Specifications: Specifications subject to change without notice.

		ROOM (25°C)			
<u>Features:</u>	Parameter	Min.	Тур.	Max	Unit
• 3100 – 5000 MHz	Frequency	3100		5000	MHz
0.7mm Height Profile	Unbalanced Port Impedance		50		Ω
<ul> <li>50 Ohm to 2 x 50 Ohm</li> <li>UWB &amp; MMDS</li> <li>Low Insertion Loss</li> <li>Input to Output DC Isolation</li> </ul>	Balanced Port Impedance		100		Ω
	Return Loss	9.5	12		dB
	Insertion Loss*		0.8	1.1	dB
Surface Mountable	Amplitude Balance	-	0.5	0.9	dB
Tape & Reel	Phase Balance	Sec.	4.0	9.0	Degrees
<ul><li>Non-conductive Surface</li><li>RoHS Compliant</li></ul>	CMRR	1=	28		dB
	Power Handling			2	Watts
the second se	Operating Temperature	-55		+85	°C

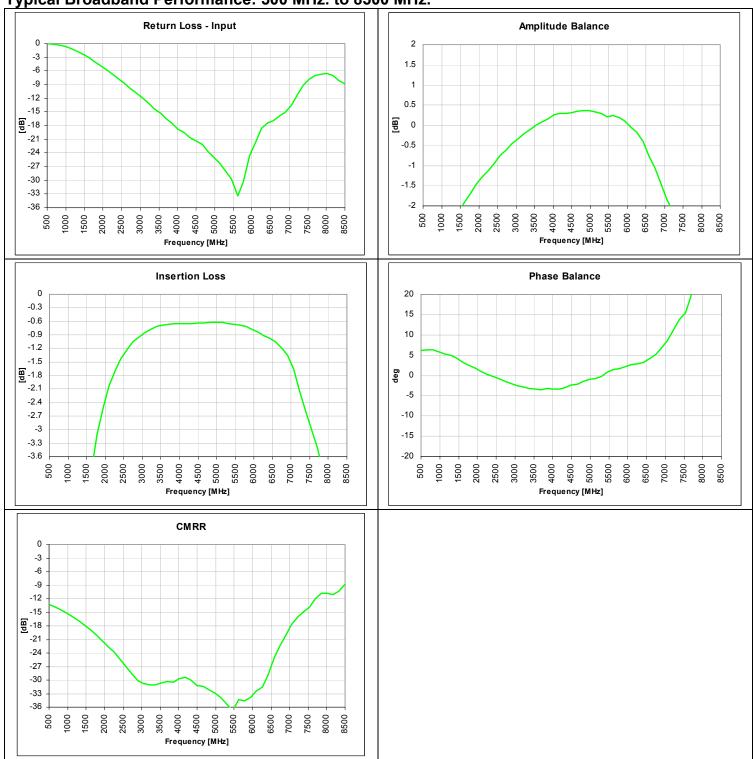
\* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

#### **Outline Drawing**



and Reel for Pick and

# **Anaren**<sup>®</sup>



### Typical Broadband Performance: 500 MHz. to 8500 MHz.

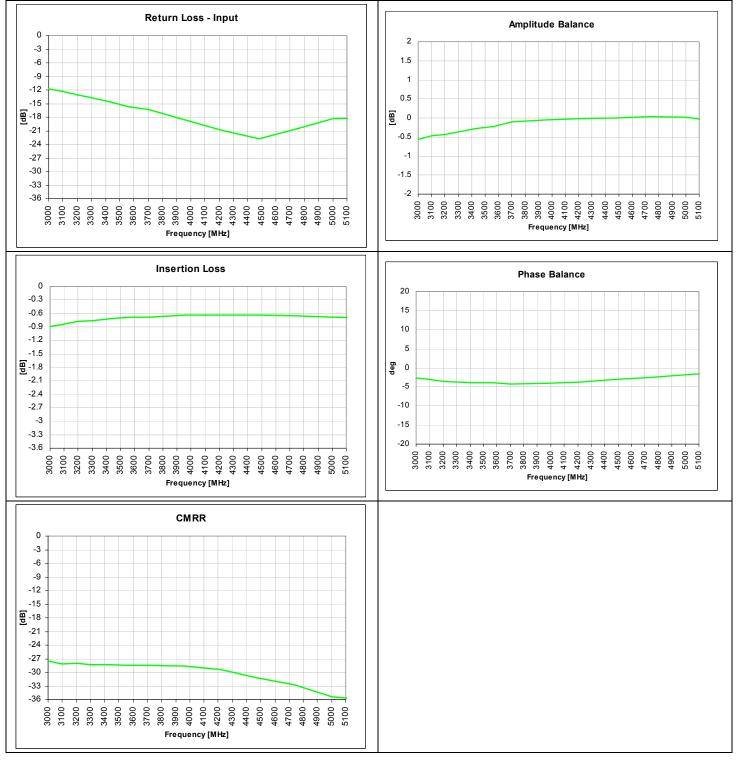
USA/Canada: Toll Free: (315) 432-8909 (800) 411-6596

Available on Tape and Reel for Pick and Place





### Typical Performance: 3000 MHz. to 5100 MHz.







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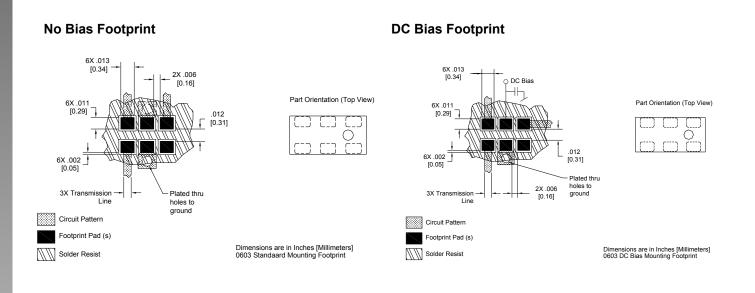
## Anaren®

#### 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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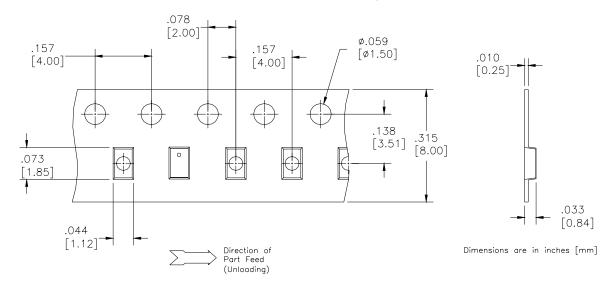
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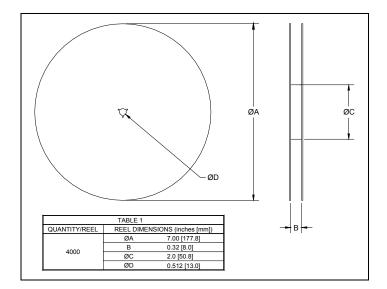




### Packaging and Ordering Information

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.









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# Anaren®

# BD 2425 J 50 100 A 00

Function	Frequency	Package Dimensions	Unbalanced Impedance	Balanced Impedance + Coupling	Plating Finish	Codes
B = Balun BD = Balun + DC F = Filter FB = Filter / Balun C = 3dB Coupler DC = Directional J = RF Jumper X = RF cross over	0110 = 100 - 1000 MHz 0810 = 800 - 1000 MHz 0922 = 950 - 2150 MHz 0826 = 800 - 6200 MHz 1222 = 1200 - 2200 MHz 1416 = 1400 - 1600 MHz 1722 = 1700 - 2200 MHz 2326 = 2300 - 2600 MHz 2425 = 2400 - 2500 MHz 3150 = 3100 - 5000 MHz 3436 = 3400 - 3600 MHz 4859 = 4800 - 5900 MHz 5153 = 5100 - 5300 MHz 5759 = 5700 - 5900 MHz		50 = 50 Ohm 75 = 75 Ohm	$\begin{array}{l} 25 = 25 \ \Omega \ Balanced\\ 30 = 30 \ \Omega \ Balanced\\ 50 = 50 \ \Omega \ Balanced\\ 75 = 75 \ \Omega \ Balanced\\ 100 = 100 \ \Omega \ Balanced\\ 150 = 150 \ \Omega \ Balanced\\ 200 = 200 \ \Omega \ Balanced\\ 300 = 300 \ \Omega \ Balanced\\ 400 = 400 \ \Omega \ Balanced\\ 03 = 34B \ Hybrid\\ 10 = 10dB \ Directional\\ 20 = 20dB \ Directional \end{array}$	A = Gold P = Tin-Lead	

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Available on Tape and Reel for Pick and Place

