



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

Description

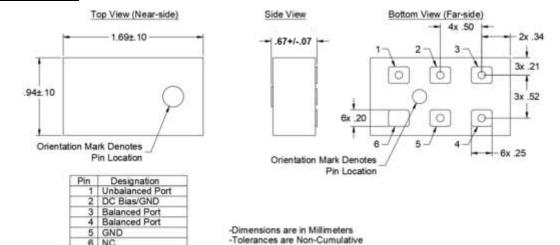
The BD3150L50100AHF is an ultra-small low profile balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering the MMDS and the low end of the UWB frequency ranges. The BD3150L50100AHF is ideal for high volume manufacturing and is higher performance than traditional ceramic baluns. The BD3150L50100AHF 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 BD3150L50100AHF 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)			ROOM (25°C)			
	Features: 3100 – 5805 MHz	Parameter	Min	Тур.	Мах	Min	Тур.	Мах	Unit
•	 0.7mm Height Profile 50 Ohm to 2 x 50 Ohm 	Frequency Unbalanced Port	4190		5805	3100		5000	MHz
•	UWB & MMDS Low Insertion Loss Input to Output DC Isolation Surface Mountable	Impedance Balanced Port Impedance		50 100			50 100		Ω Ω
		Return Loss Insertion Loss* Amplitude Balance	14	19 0.7 0.3	0.9 0.9	9.5	12 0.8 0.5	1.1 0.9	dB dB dB
	Tape & ReelNon-conductive	& Reel Phase Balance conductive CMRR	25	3 30	0.9 7	24	4.0 28	9.0	Degrees
	Surface RoHS Compliant	Power Handling			2			2	Watts
•	Halogen Free	Operating Temperature	-55		+140	-55		+140	°C

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

Mechanical Outline





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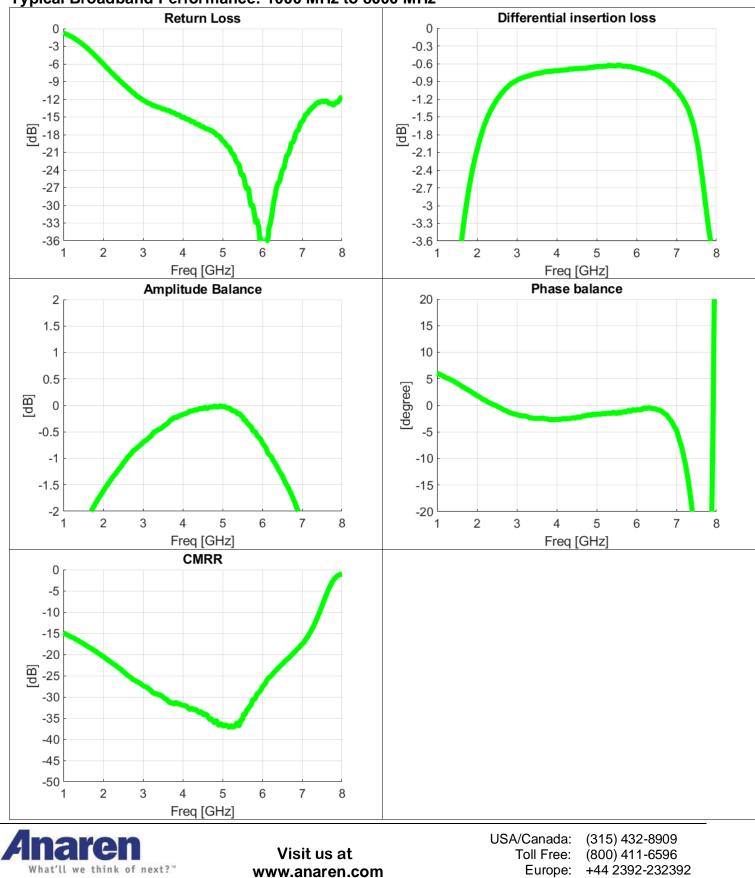
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Asia:

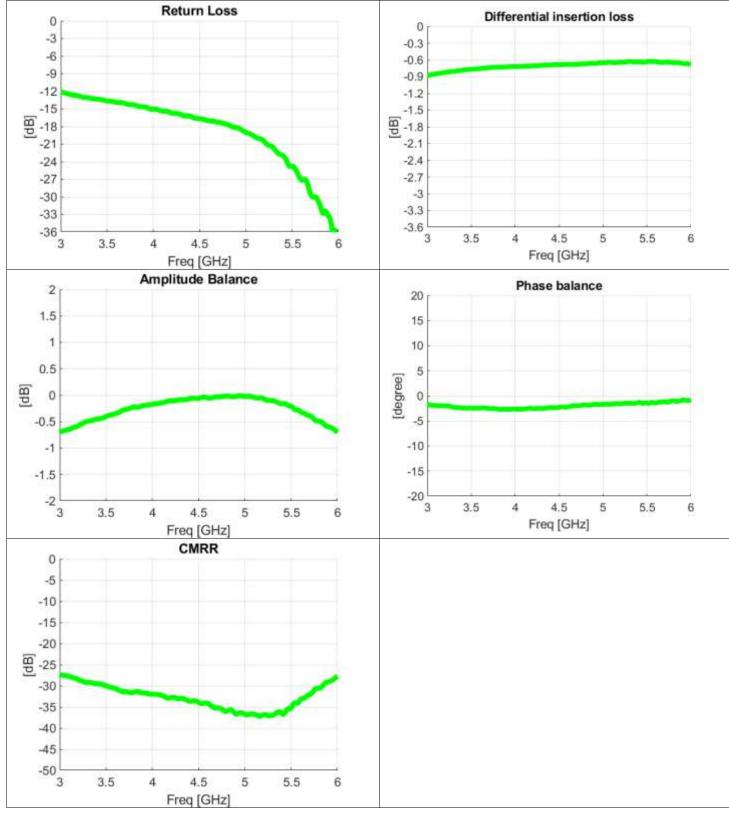
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Typical Performance: 3000 MHz to 6000 MHz





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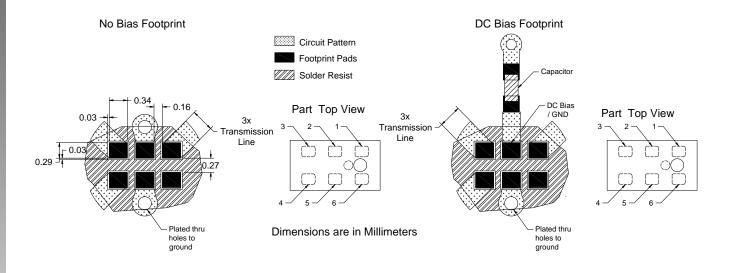


Mounting Configuration:

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.

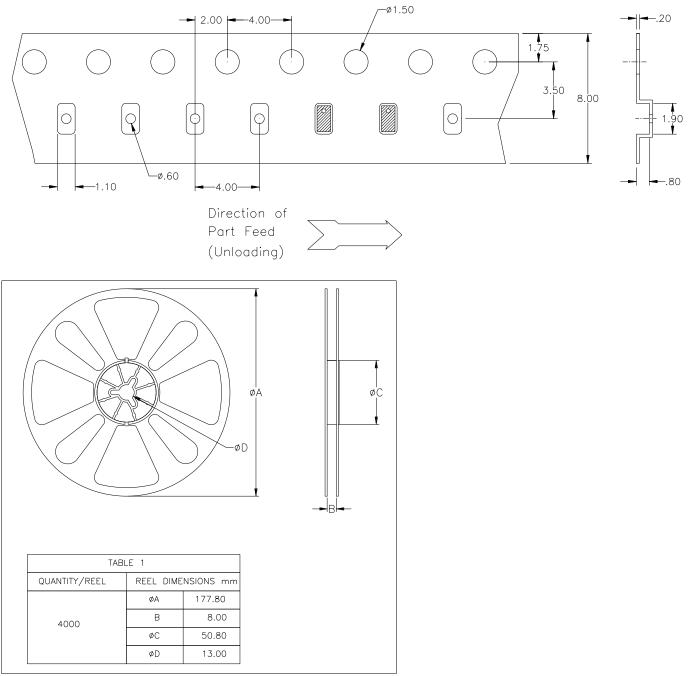






Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-2. 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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