





Ultra Low Profile 0805 Balun 50Ω to 100Ω Balanced

Description

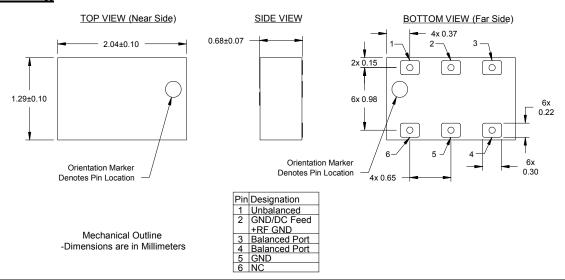
The BD1631J50100AHF is a low profile sub-miniature balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering 802.11b+g+n, GSM, DCS, PCS and UMTS. The BD1631J50100AHF is ideal for high volume manufacturing and is higher performance than traditional ceramic and lumped element baluns. The BD1631J50100AHF 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 semiconductors. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD1631J50100AHF 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
• 1.6 – 3.1 GHz	Frequency	2.0		2.5	1.6		3.1	GHz
0.7mm Height Profile50 Ohm to 2 x 50 Ohm	Unbalanced Port Imp.		50			50		Ω
• 802.11 b & g +n Compliant	Balanced Port Imp.**		100			100		Ω
Low Insertion Loss	Return Loss	14	17		10	13		dB
DCS, PCS & UMTS	Insertion Loss***		0.6	0.7		0.7	0.9	dB
Compliant	Amplitude Balance		0.15	0.6		0.7	1.0	dB
Input to Output DC IsolationSurface Mountable	Phase Balance		2.3	4.8		2.3	4.8	Degrees
Tape & Reel	Power Handling			2			2	Watts
Non-conductive Surface								
RoHS Compliant								
Halogen Free								20
	Operating Temperature	-55		+85	-55		+85	°C

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

Outline Drawing



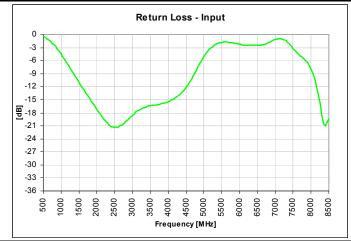


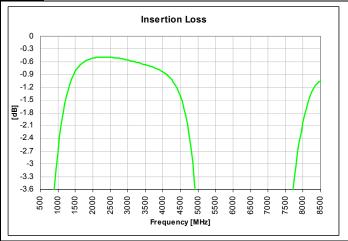
Visit us at www.anaren.com

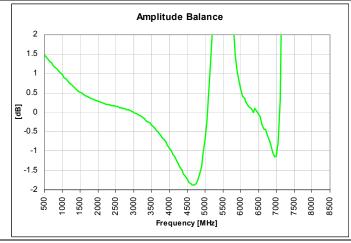


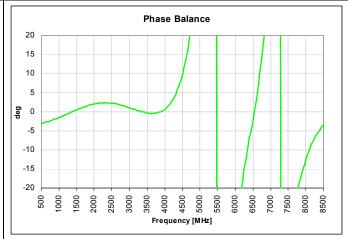


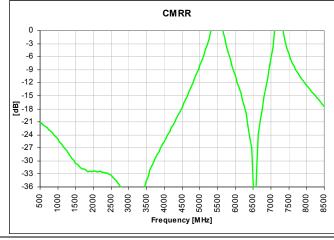
Typical Broadband Performance: 500 MHz to 8500 MHz.













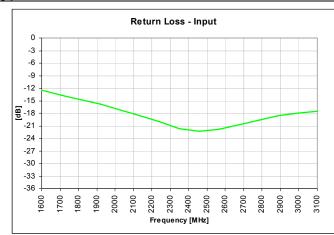
Visit us at USA/Canada: (315 Toll Free: (800 www.anaren.com Europe: +44

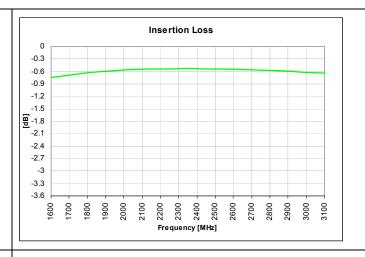


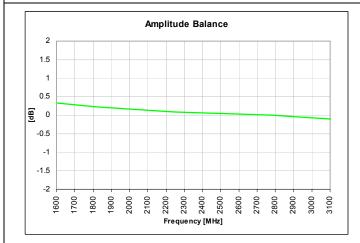
Model BD1631J50100AHF

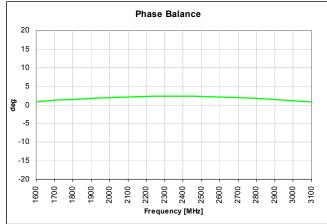
Rev B

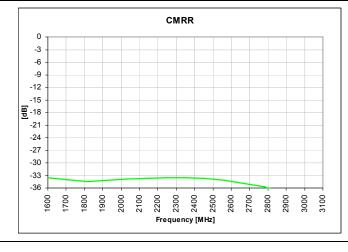
Typical Performance: 1600 MHz to 3100 MHz













Model BD1631J50100AHF

Rev B

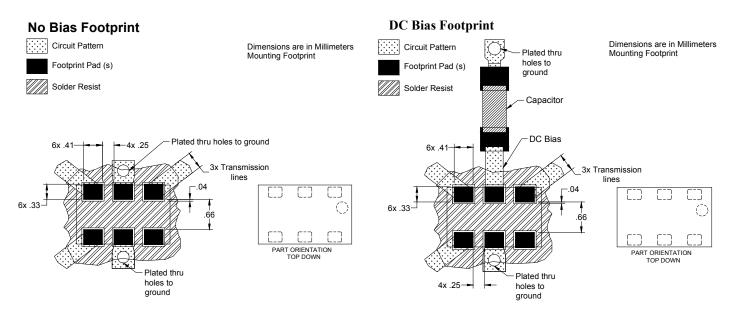


Mounting Configuration:

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.





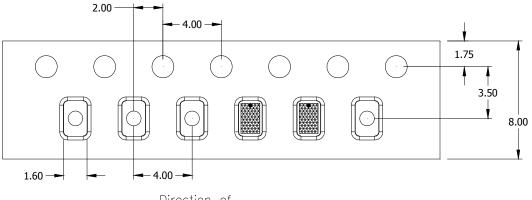


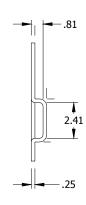
Model BD1631J50100AHF

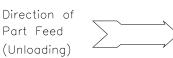
Rev B

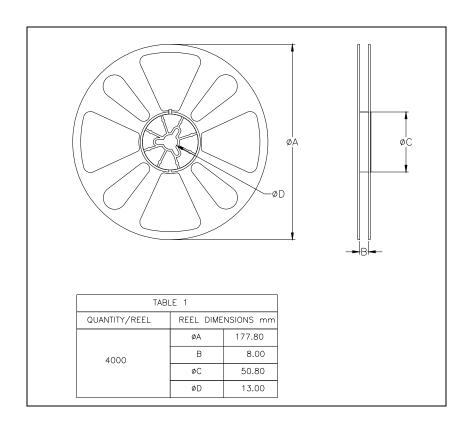
Packaging and Ordering Information

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.









AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

> Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com