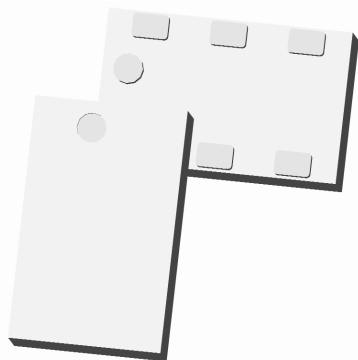


Xinger®

Ultra Low Profile 0805 Balun 50Ω to 100Ω Balanced



Description

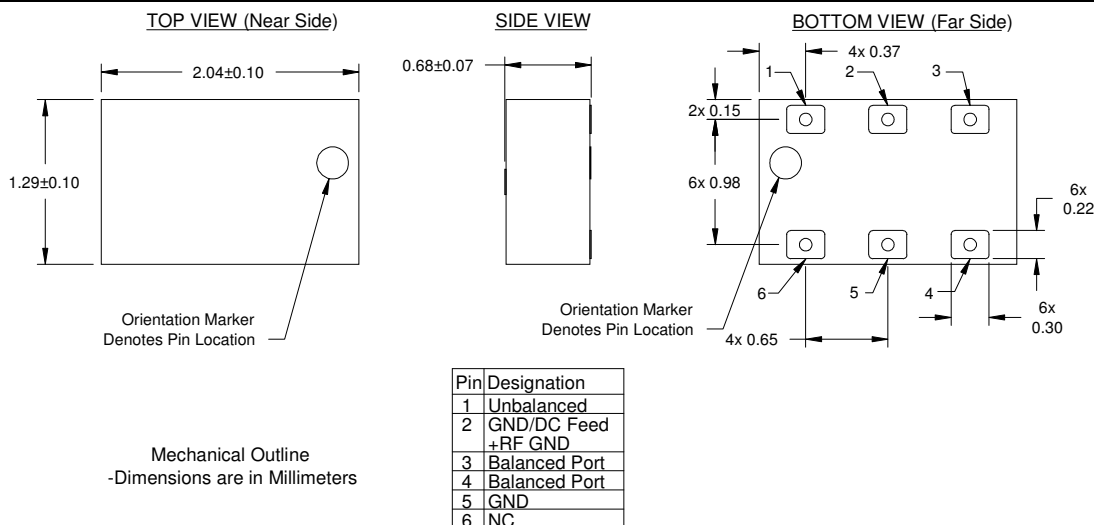
The BD1631J50100AHF is a low profile sub-miniature balanced to unbalanced transformer designed for differential inputs and output locations on next generation wireless chipsets in an easy to use surface mount package covering 802.11b+g+n, GSM, DCS, PCS and UMTS. The BD1631J50100AHF is ideal for high 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.

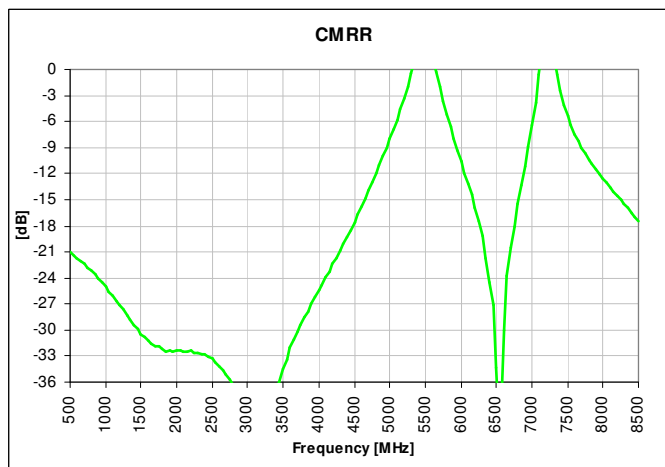
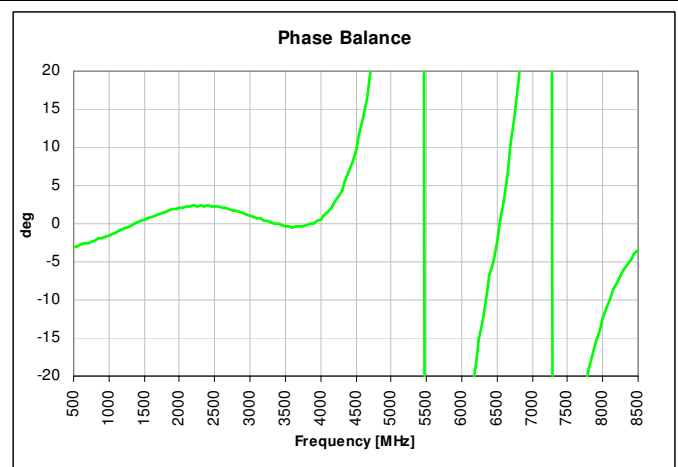
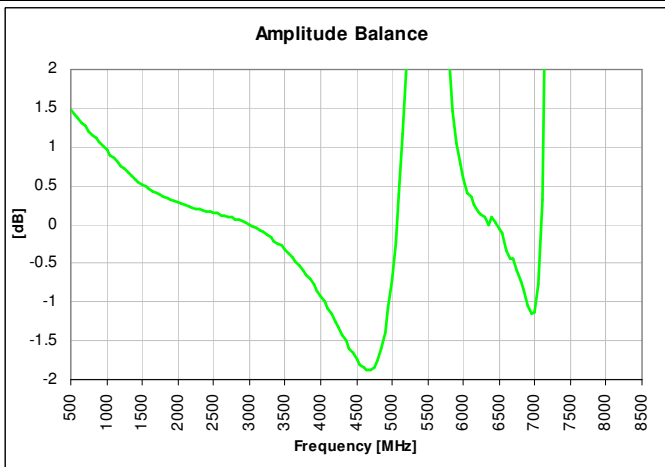
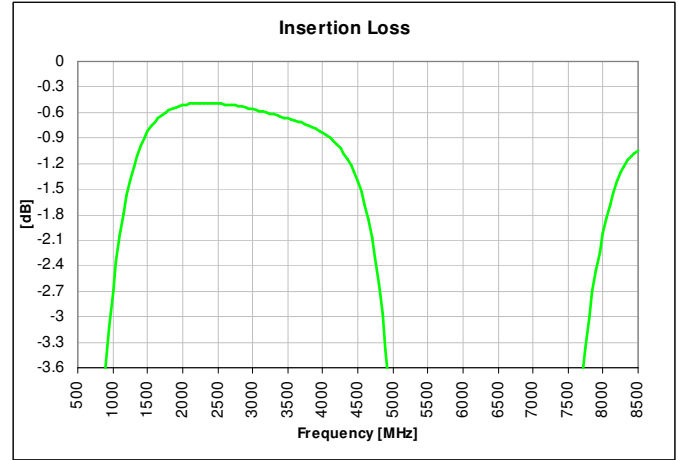
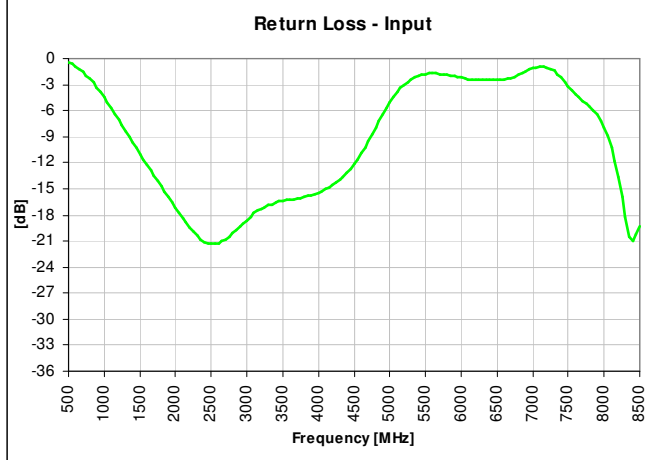
Features:	Parameter	ROOM (25°C)						Unit
		Min.	Typ.	Max	Min.	Typ.	Max	
• 1.6 – 3.1 GHz	Frequency	2.0		2.5	1.6		3.1	GHz
• 0.7mm Height Profile	Unbalanced Port Imp.		50			50		Ω
• 50 Ohm to 2 x 50 Ohm	Balanced Port Imp.**		100			100		Ω
• 802.11 b & g +n Compliant	Return Loss	14	17		10	13		dB
• Low Insertion Loss	Insertion Loss***		0.6	0.8		0.7	1.0	dB
• DCS, PCS & UMTS Compliant	Amplitude Balance		0.15	0.6		0.7	1.0	dB
• Input to Output DC Isolation	Phase Balance		2.3	4.8		2.3	4.8	Degrees
• Surface Mountable	Power Handling @85C			0.8			0.8	Watts
• Tape & Reel	Power Handling @100C			0.55			0.55	Watts
• Non-conductive Surface	Power Handling @105C			0.48			0.48	Watts
• RoHS Compliant	Operating Temperature	-55		+105	-55		+105	°C
• Halogen Free								

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

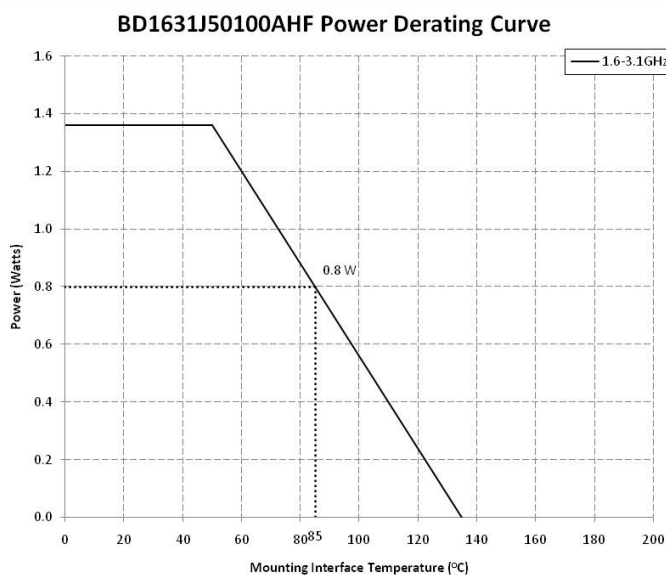
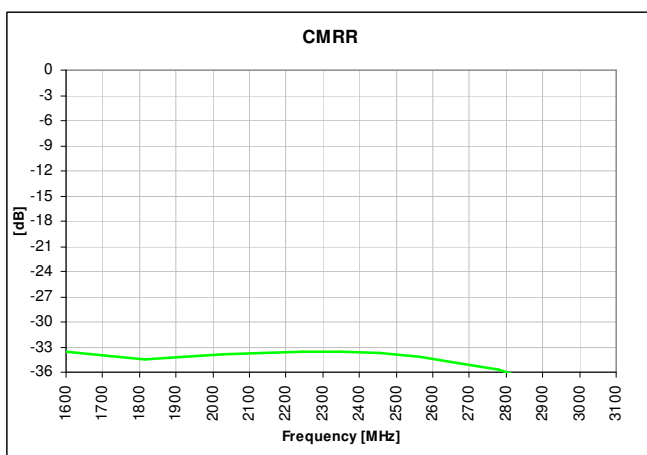
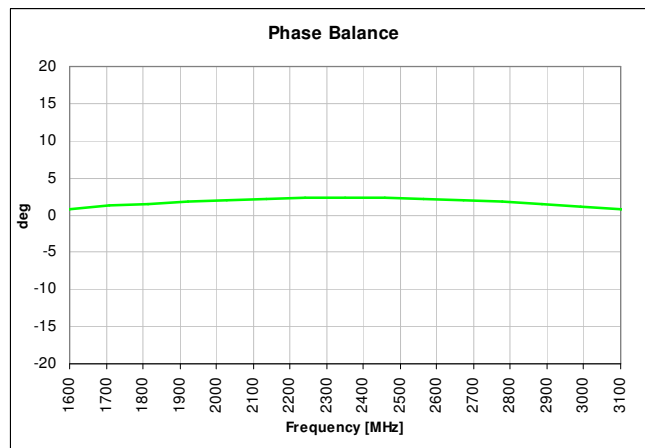
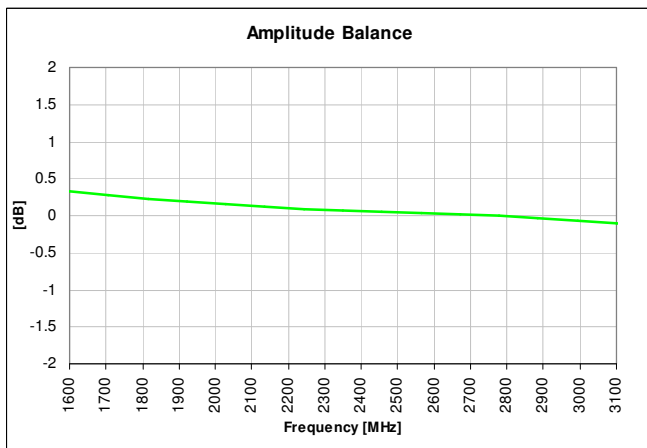
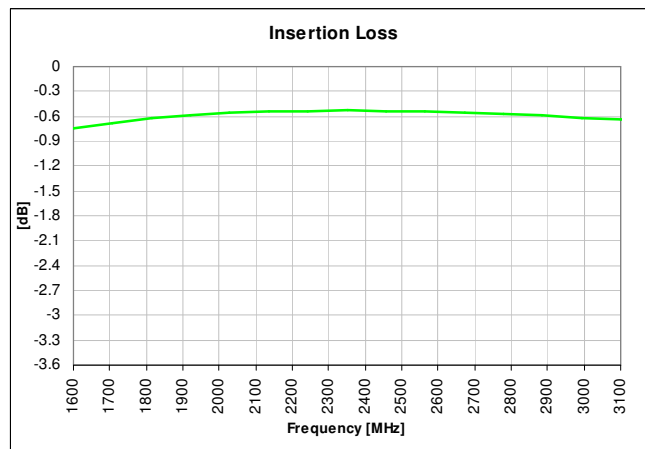
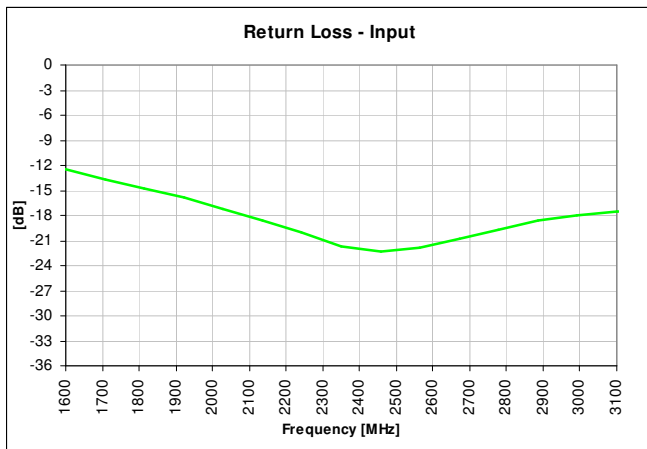
Outline Drawing



Typical Broadband Performance: 500 MHz to 8500 MHz.



Typical Performance: 1600 MHz to 3100 MHz



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.

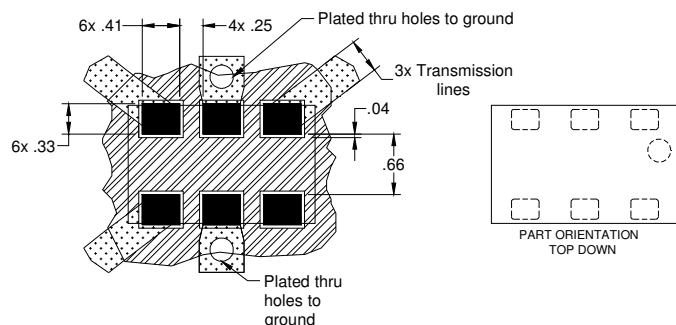
All of the Xinger components are constructed from organic PTFE based composites which possess excellent electrical and mechanical stability. Xinger components are compliant to a variety of ROHS and Green standards and ready for Pb-free soldering processes. Pads are Gold plated with a Nickel barrier.

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.

No Bias Footprint

-  Circuit Pattern
-  Footprint Pad (s)
-  Solder Resist

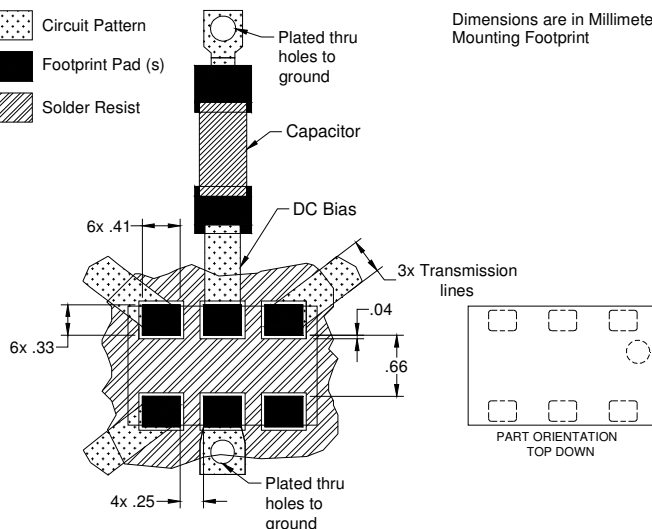
Dimensions are in Millimeters
Mounting Footprint



DC Bias Footprint

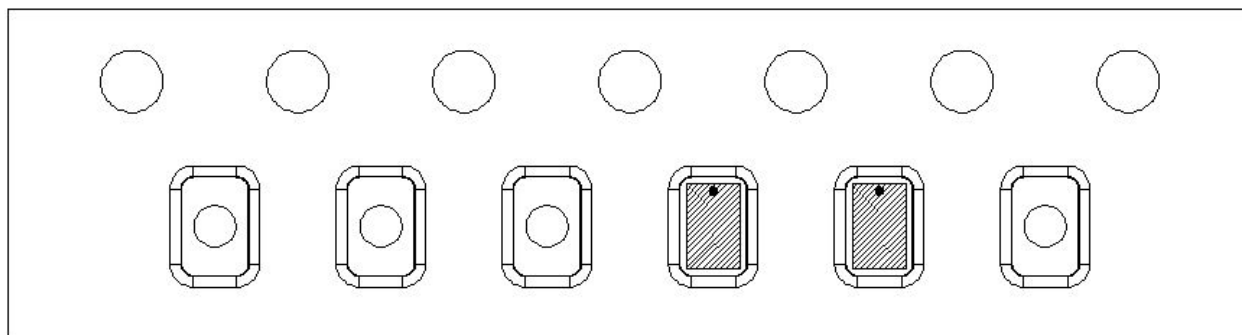
-  Circuit Pattern
-  Footprint Pad (s)
-  Solder Resist

Dimensions are in Millimeters
Mounting Footprint



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.



Direction of
Part Feed
(Unloading)

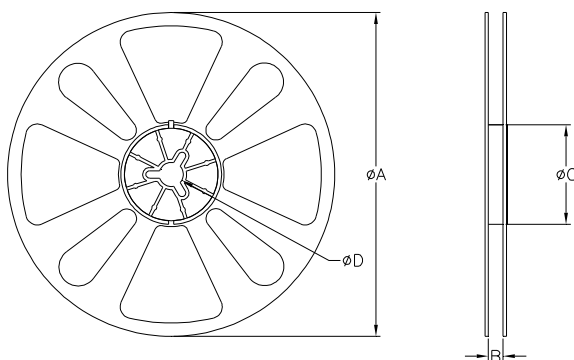


TABLE 1		
QUANTITY/REEL	REEL DIMENSIONS mm	
4000	ϕA	177.80
	B	8.00
	ϕC	50.80
	ϕD	13.00

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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