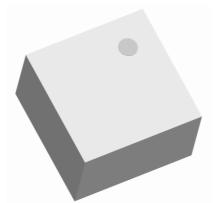




Ultra Low Profile 0404 Balun 50Ω to 50Ω Balanced



Description

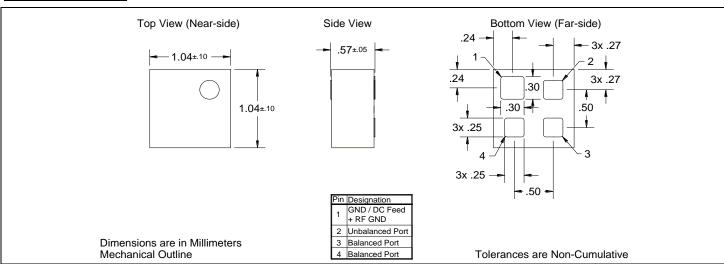
The BD1722N5050AHF is a low profile, low impedance sub-miniature unbalanced to balanced transformer targeted at the GSM, CDMA, WCDMA and UMTS designed for differential inputs and output locations on modern chipsets in an easy to use surface mount package. The BD1722N5050AHF is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD1722N5050AHF has an unbalanced port impedance of 50Ω and a 50Ω balanced port impedance. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD1722N5050AHF is available on tape and reel for pick and place high volume manufacturing.

Detailed Electrical Specifications: Specifications subject to change without notice.

Detailed Liectifical Opecifications. Specifications subject to change without notice.								
		ROOM (25°C)		ROOM (25°C)				
Features:	Parameter	Min.	Тур.	Max	Min.	Тур.	Max	Unit
• 1600 – 2200 MHz	Frequency	1600		2200	1700		2200	MHz
0.57 mm Height Profile50 Ohm to 2 x 25 Ohm	Unbalanced Port Impedance		50			50		Ω
Class Leading CMRR	Balanced Port Impedance		50			50		Ω
Targeted at GSM, CDMA,	Return Loss	9.8	12.6		12.5	16.3		dB
WCDMA and UMTS	Insertion Loss*		0.95	1.30		0.82	1.02	dB
Applications	Amplitude Balance		0.57	0.96		0.42	0.79	dB
Surface Mountable Tana & Basil	Phase Balance		3.42	6.82		3.42	6.82	Degrees
Tape & ReelNon-conductive Top	CMRR		29			29		dB
Surface	Power Handling @85C			0.75			0.75	Watts
RoHS Compliant	Power Handling @105C			0.45			0.45	°C
Halogen Free	Operating Temperature	-55		+105	-55		+105	

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

Outline Drawing

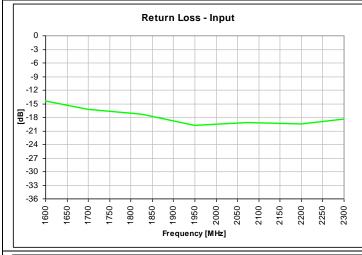


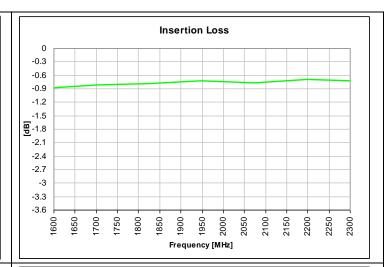


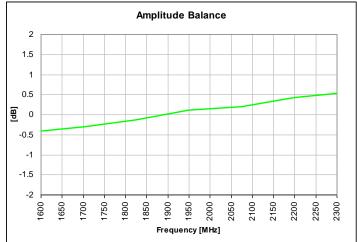
USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 Europe: +44 2392-232392 Asia: +86 512-62749282

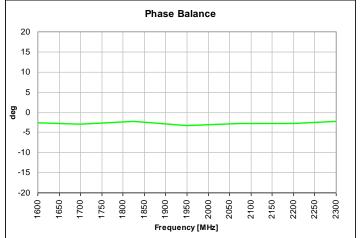


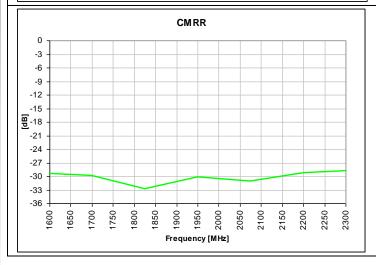
Typical Performance: 1600 MHz. to 2300 MHz.











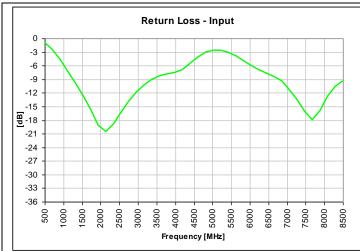


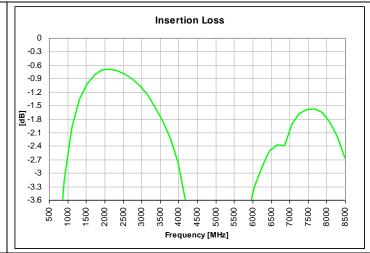
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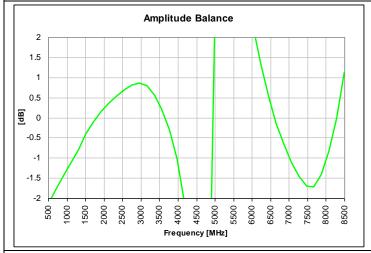
Asia: +86 512-62749282

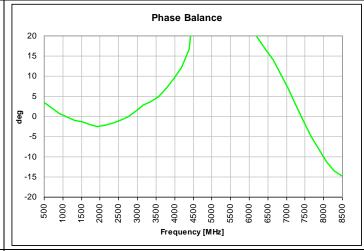


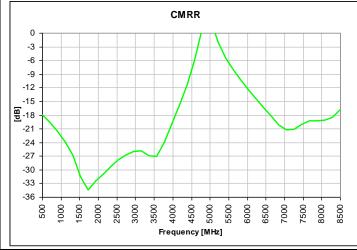
Wide Band Performance: 500 MHz. to 8500 MHz.











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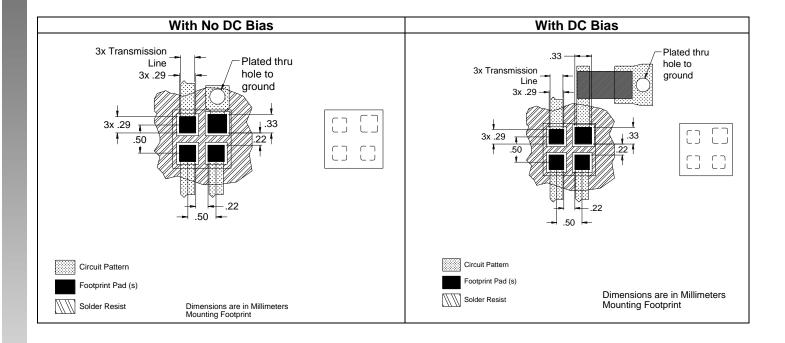


Mounting Configuration:

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 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. 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.





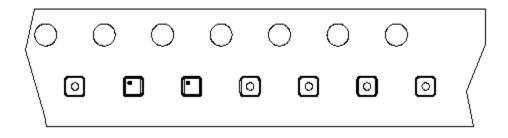
USA/Canada: (315) 432-8909 Toll Free: (800) 411-6596 +44 2392-232392 Europe:

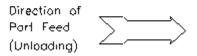
+86 512-62749282 Asia:



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.





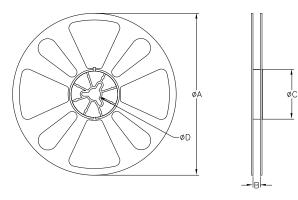


TABLE 1								
QUANTITY/REEL	REEL DIMENSIONS mm							
	ØΑ	177.80						
4000	В	8.00						
	øС	50.80						
	øD	13.00						

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