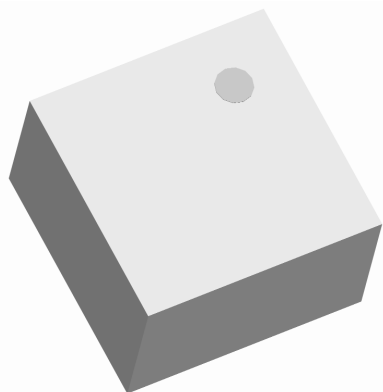


Xinger®



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.

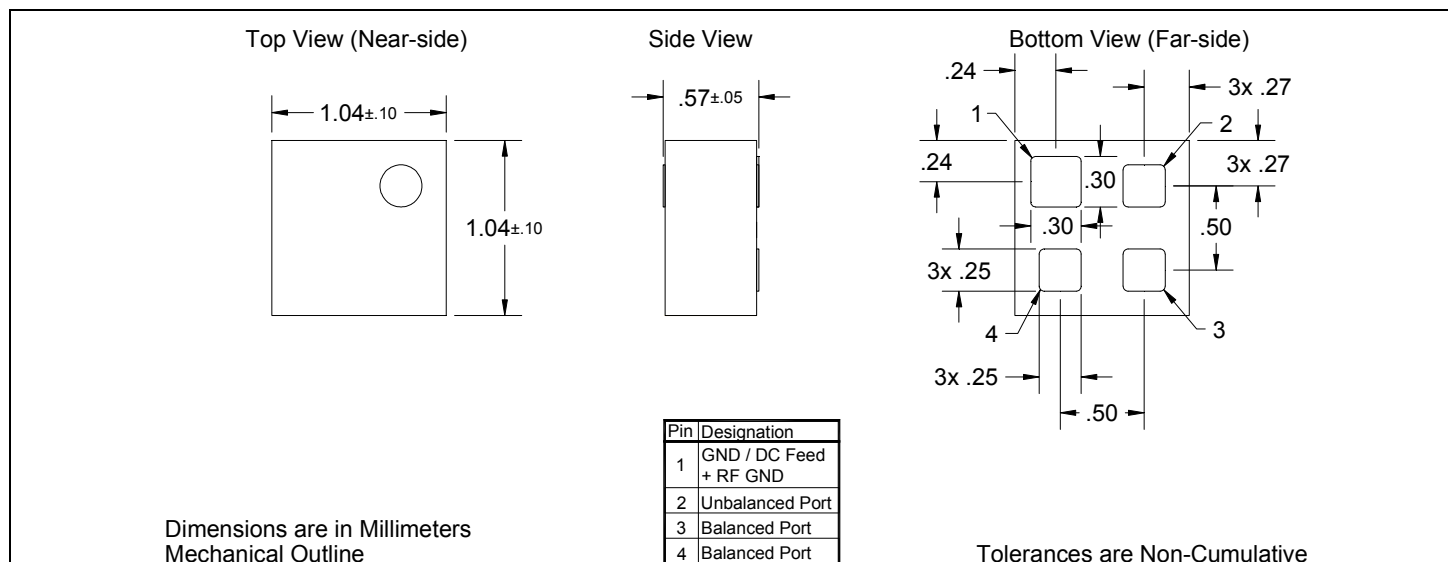
Features:

- 1700 – 2200 MHz
- 0.57 mm Height Profile
- 50 Ohm to 2 x 25 Ohm
- Class Leading CMRR
- Targeted at GSM, CDMA, WCDMA and UMTS Applications
- Surface Mountable
- Tape & Reel
- Non-conductive Top Surface
- RoHS Compliant
- Halogen Free

Parameter	ROOM (25°C)			Unit
	Min.	Typ.	Max	
Frequency	1700		2200	MHz
Unbalanced Port Impedance		50		Ω
Balanced Port Impedance		50		Ω
Return Loss	12.5	16.3		dB
Insertion Loss*		0.82	1.02	dB
Amplitude Balance		0.42	0.79	dB
Phase Balance		3.42	6.82	Degrees
CMRR		29		dB
Power Handling			0.75	Watts
Operating Temperature	-55		+85	°C

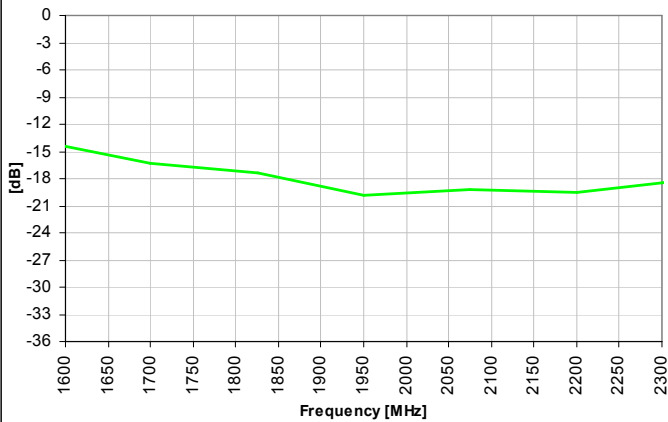
* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

Outline Drawing

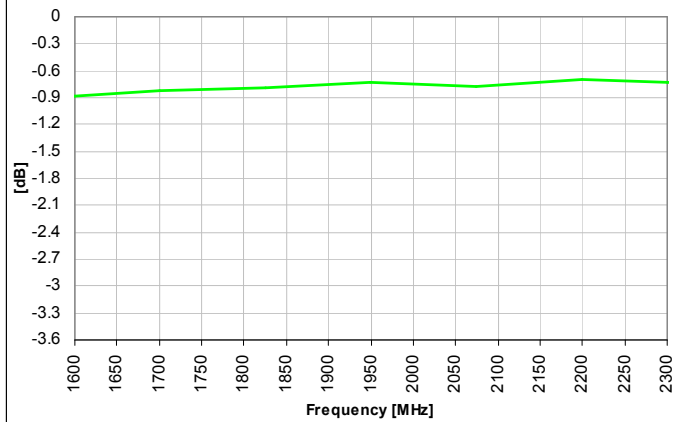


Typical Performance: 1600 MHz. to 2300 MHz.

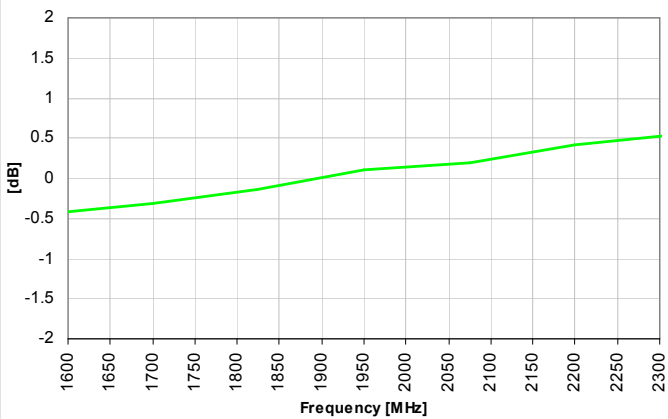
Return Loss - Input



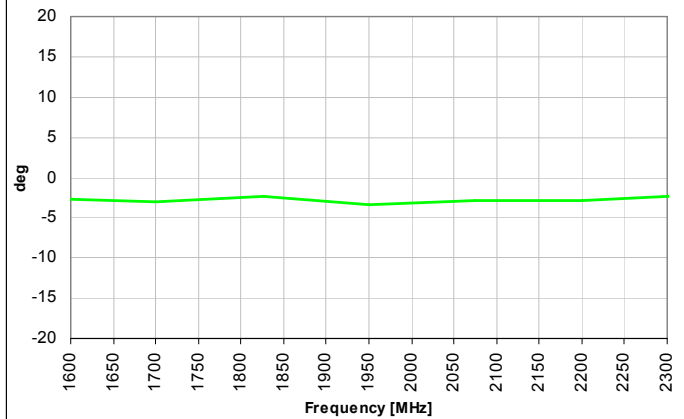
Insertion Loss



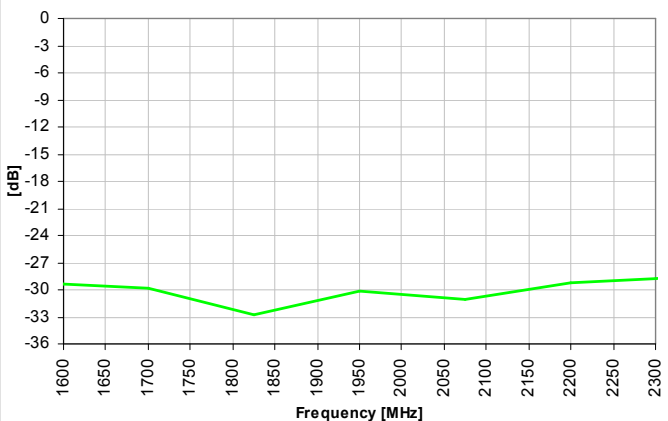
Amplitude Balance



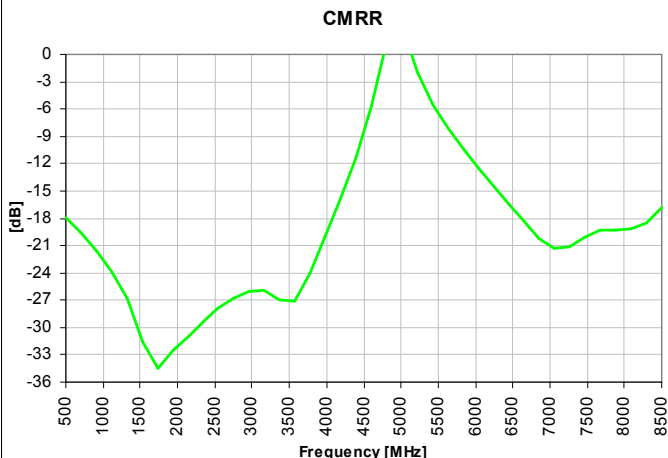
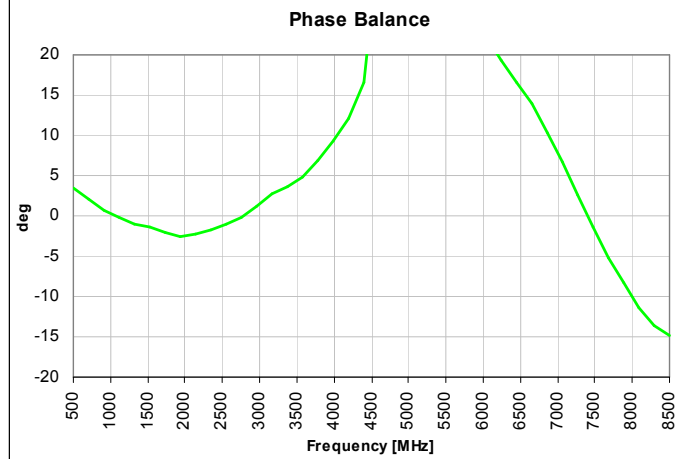
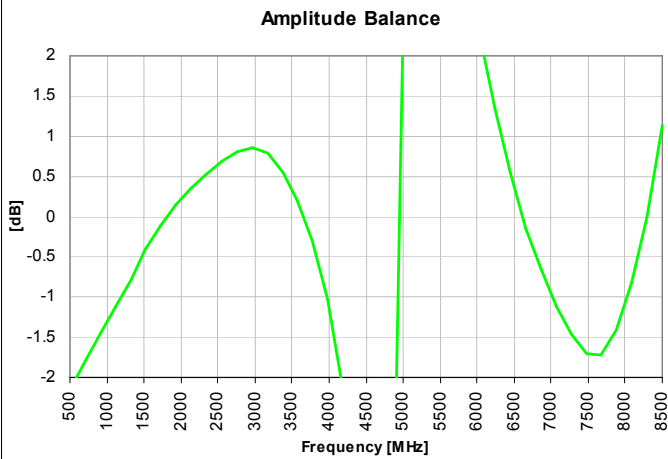
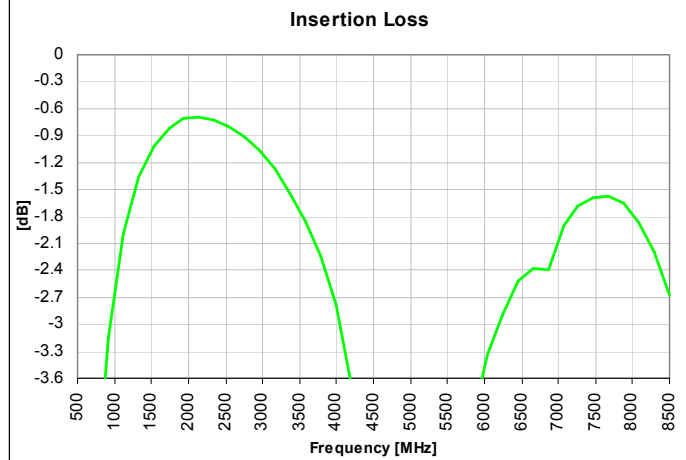
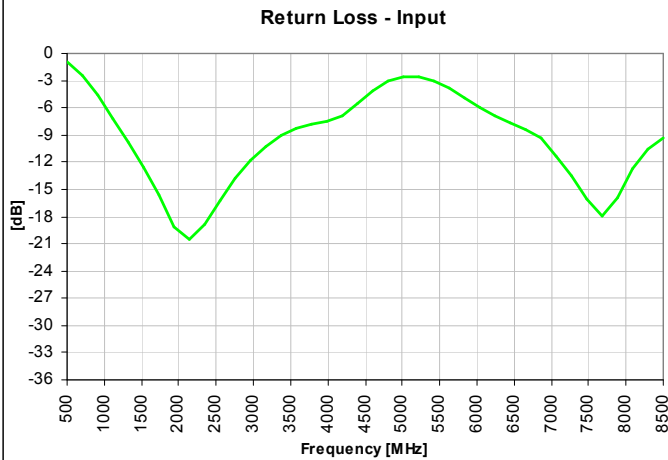
Phase Balance



CMRR



Wide Band Performance: 500 MHz. to 8500 MHz.

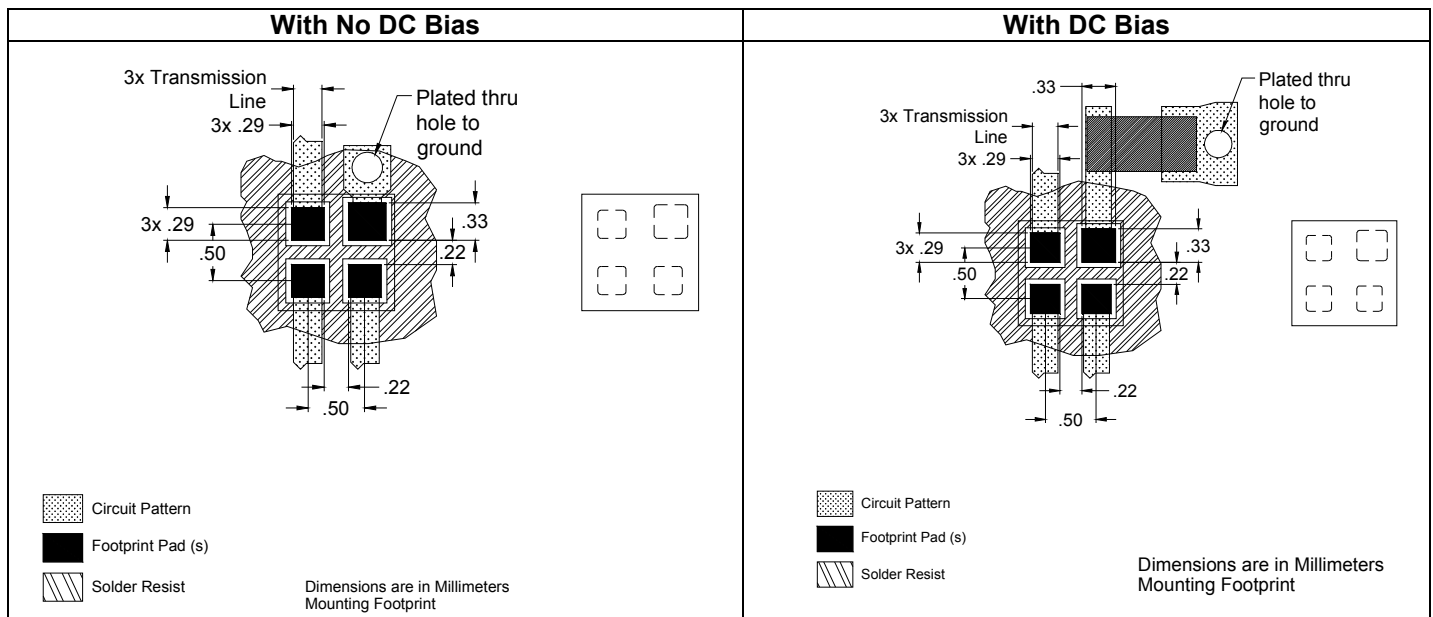


Mounting Configuration:

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. 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.

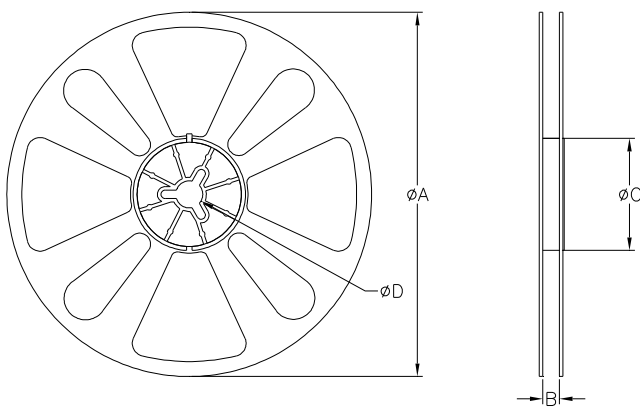
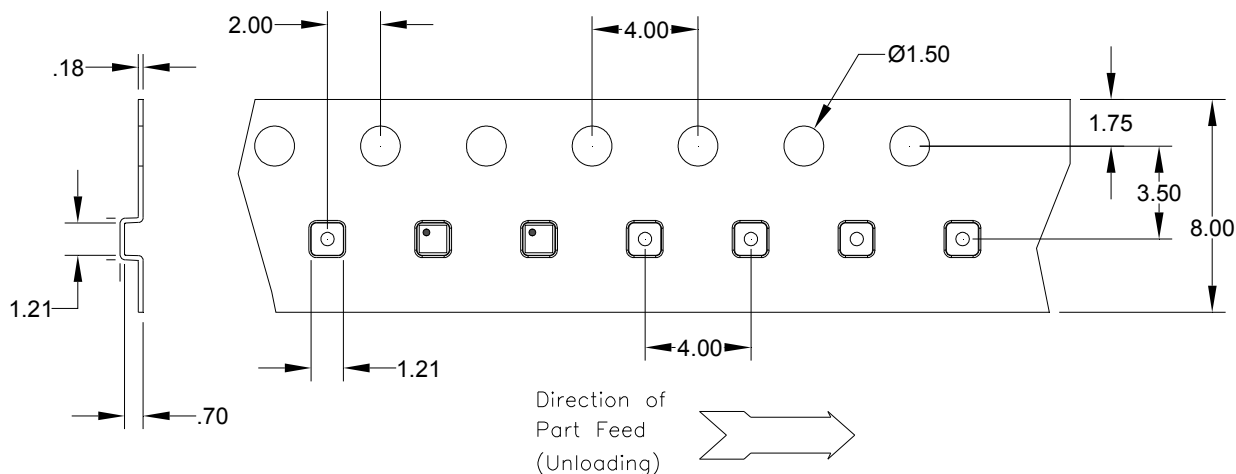


TABLE 1		
QUANTITY/REEL	REEL DIMENSIONS mm	
4000	ØA	177.80
	B	8.00
	ØC	50.80
	ØD	13.00

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