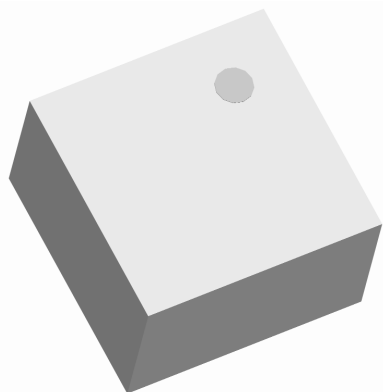


Xinger®



Ultra Low Profile 0404 Balun 50Ω to 50Ω Balanced

Description

The BD2425N5050AHF is a low profile, low impedance sub-miniature unbalanced to balanced transformer designed for differential inputs and output locations on modern chipsets targeted at 802.11 b+g, MIMO b+g, Bluetooth, Zigbee, ULPR and ISM band Applications in an easy to use surface mount package. The BD2425N5050AHF is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD2425N5050AHF 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 BD2425N5050AHF is available on tape and reel for pick and place high volume manufacturing.

Detailed Electrical Specifications: Specifications subject to change without notice.

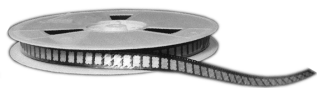
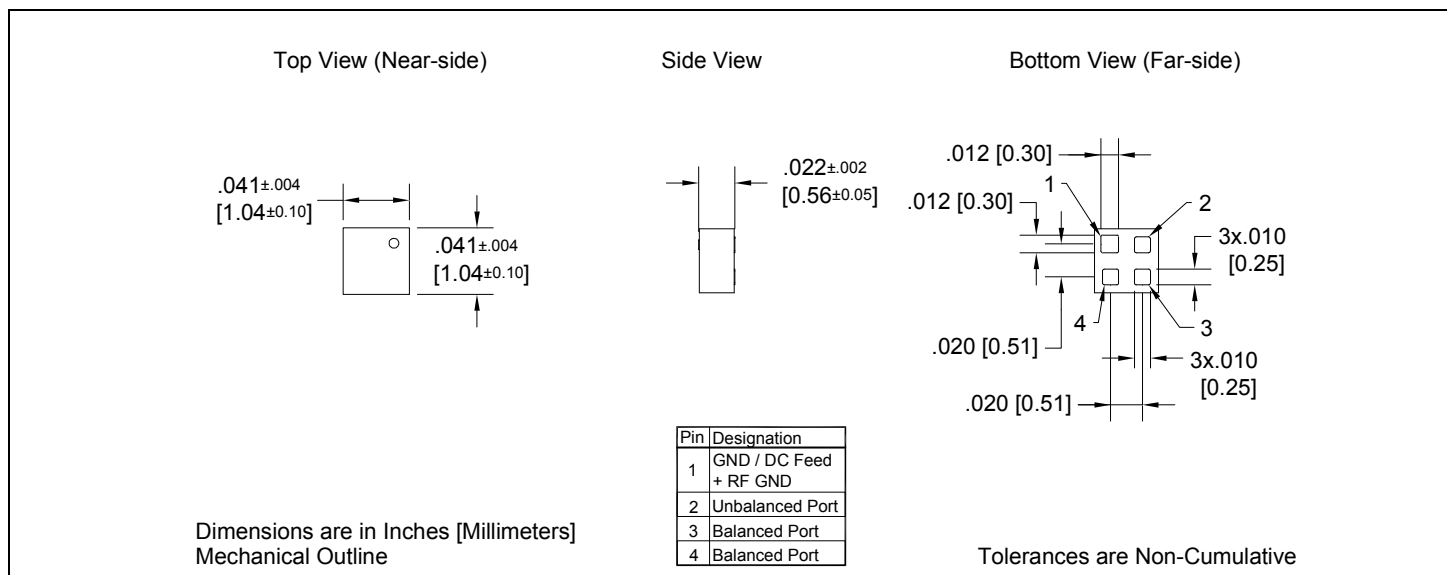
Features:

- 2400 – 2500 MHz
- 0.56 mm Height Profile
- 50 Ohm to 2 x 25 Ohm
- Low Insertion Loss
- Targeted At 802.11 b+g, MIMO b+g, Bluetooth, Zigbee, ULPR and ISM Band Applications
- Surface Mountable
- Tape & Reel
- Non-conductive Top Surface
- RoHS Compliant
- Halogen free

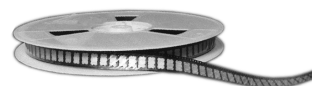
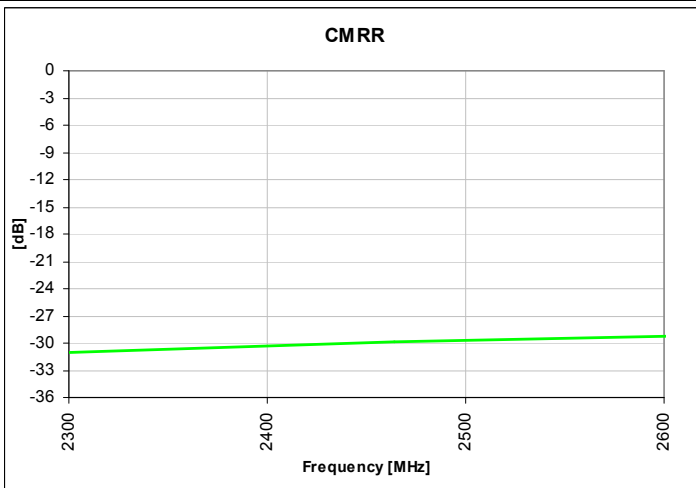
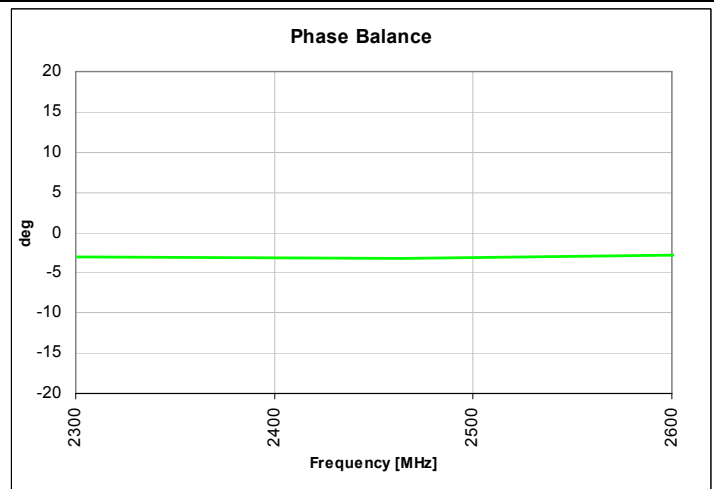
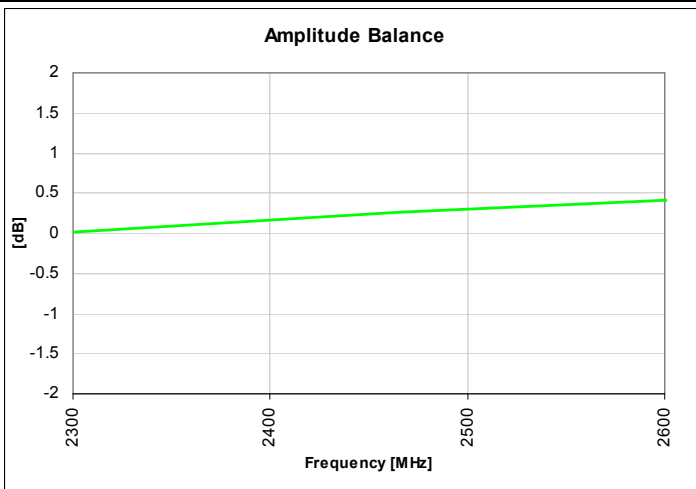
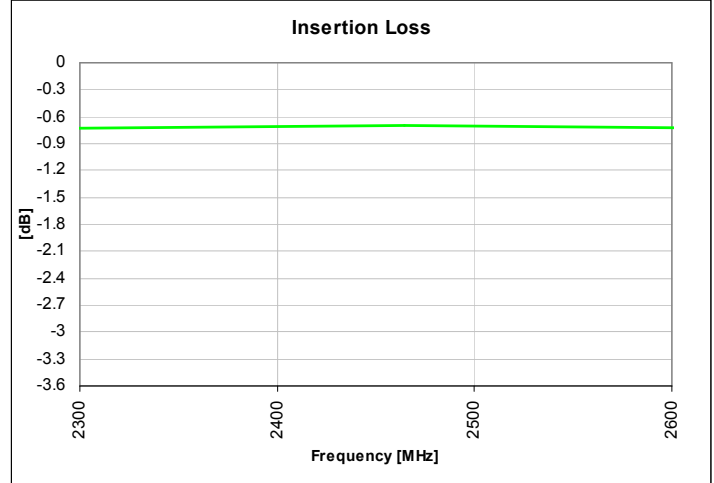
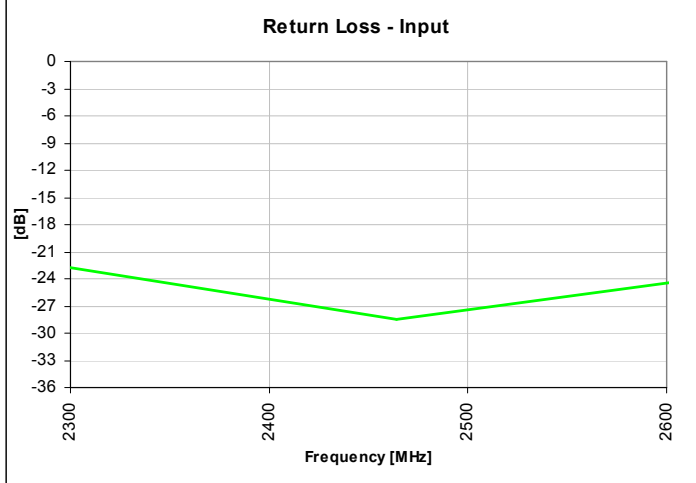
Parameter	ROOM (25°C)			Unit
	Min.	Typ.	Max	
Frequency	2400		2500	MHz
Unbalanced Port Impedance		50		Ω
Balanced Port Impedance		50		Ω
Return Loss	15	23		dB
Insertion Loss*		0.7	0.9	dB
Amplitude Balance		0.3	0.8	dB
Phase Balance		3	7	Degrees
CMRR		30		dB
Power Handling			0.75	Watts
Operating Temperature	-55		+85	°C

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

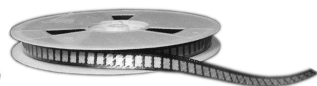
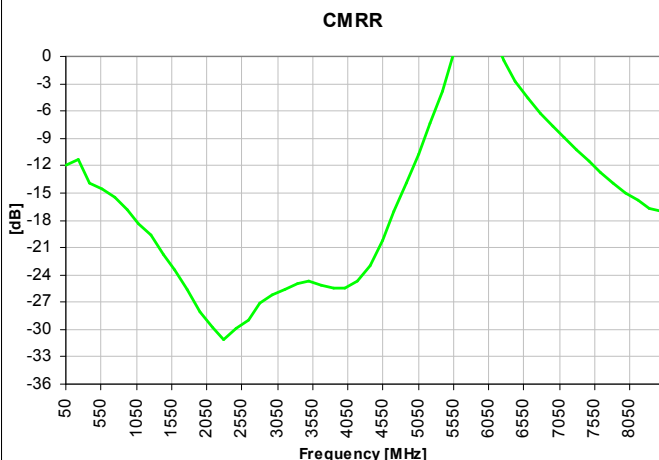
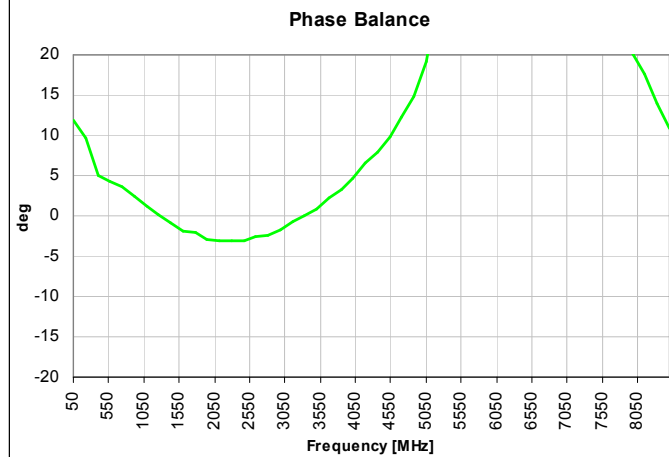
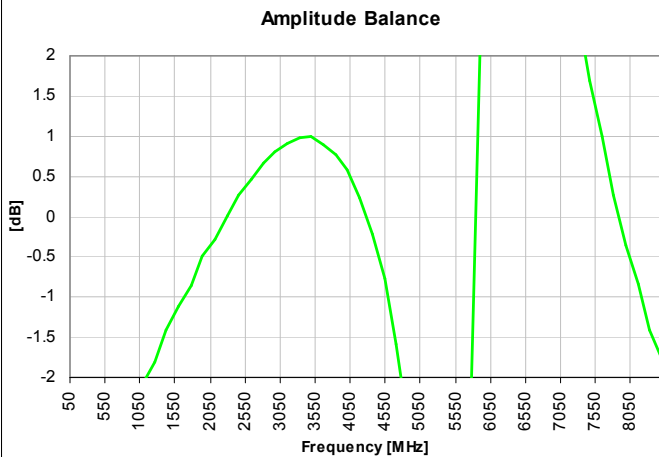
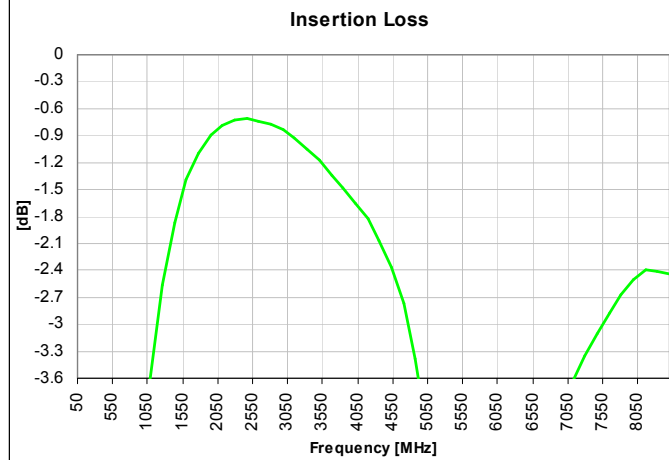
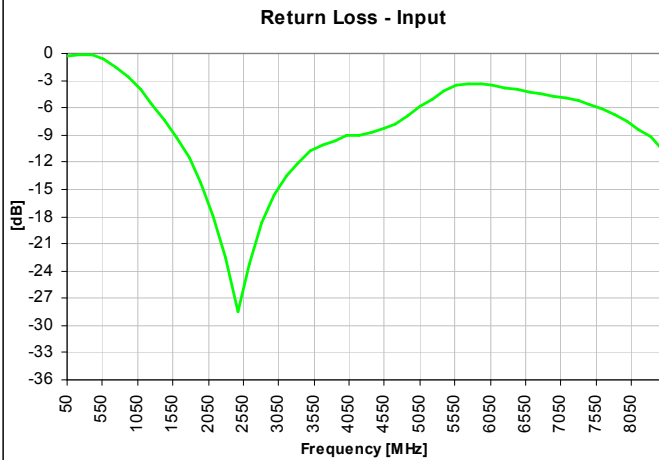
Outline Drawing



Typical Performance: 2300 MHz. to 2600 MHz.



Wide Band Performance: 500 MHz. to 8500 MHz.

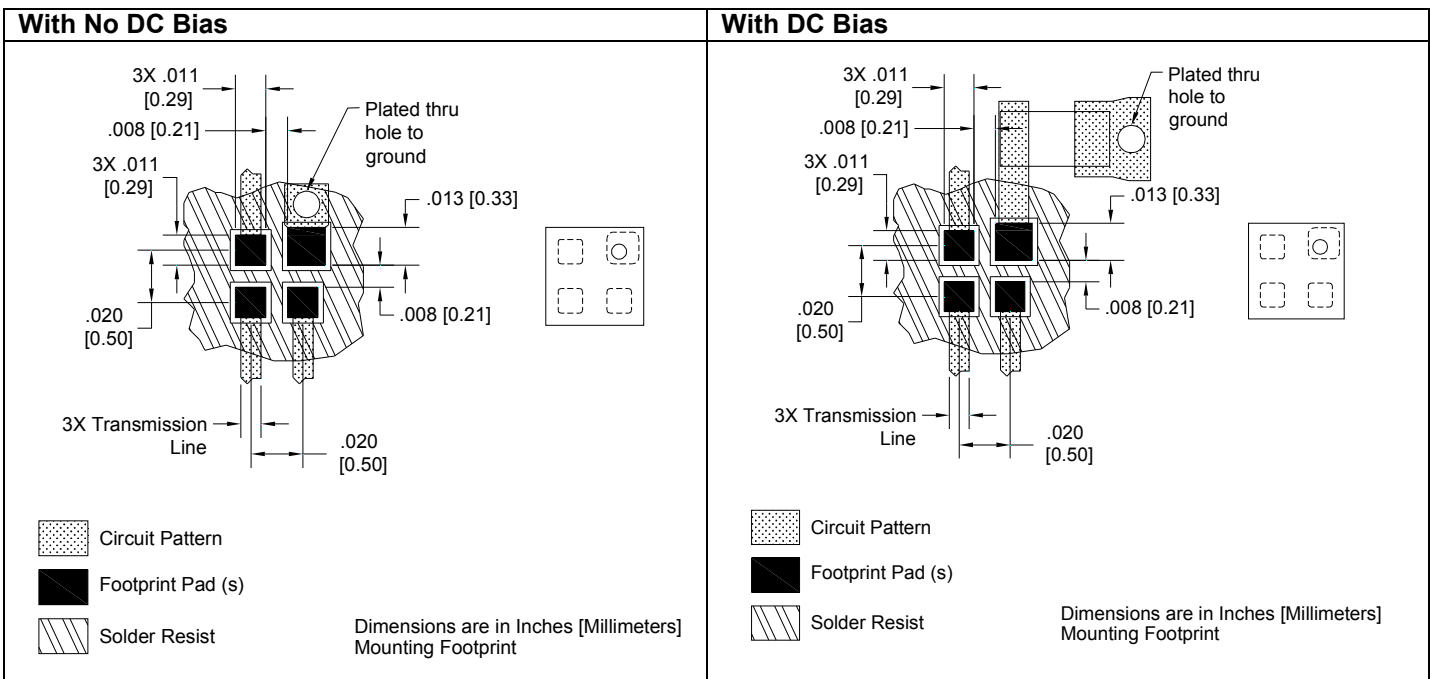


Mounting Configuration:

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 ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

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.



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