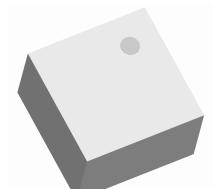






ROOM (25°C)



Description

The BD2425N50100AHF is a low cost, low profile sub-miniature unbalanced to balanced transformer designed for differential inputs and output locations on modern chipsets in an easy to use surface mount package. The BD2425N50100AHF is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD2425N50100AHF 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 integrated chipsets. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD2425N50100AHF is available on tape and reel for pick and place high volume manufacturing.

-55

Detailed Electrical Specifications: Specifications subject to change without notice.

realures.		(23 C)			
• 2400 – 2500 MHz	Parameter	Min.	Тур.	Max	Unit
0.56 mm Height Profile Character Section 1997	Frequency	2400		2500	MHz
50 Ohm to 2 x 50 OhmLow Insertion Loss	Unbalanced Port Impedance		50		Ω
• 802.11 b+g	Balanced Port Impedance		100		Ω
MIMO b+g	Return Loss	18	25		dB
Bluetooth	Insertion Loss*		0.6	0.7	dB
ZigbeeSurface Mountable	Amplitude Balance		0.2	0.6	dB
Tape & Reel	Phase Balance		1	3	Degrees
Non-conductive Surface	CMRR		37		dB

Operating Temperature

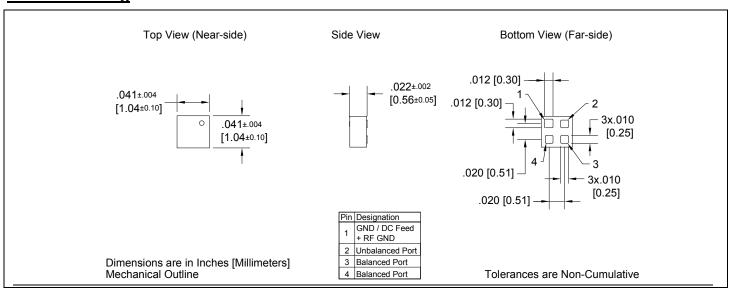
* Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1 dB higher at +85 °C)

Power Handling

Outline Drawing

Halogen-Free

RoHS Compliant







Available on Tape and Reel for Pick and Place Manufacturing.

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

1.0

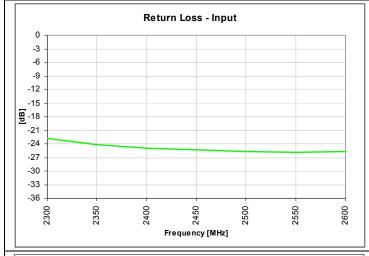
+85

Watts

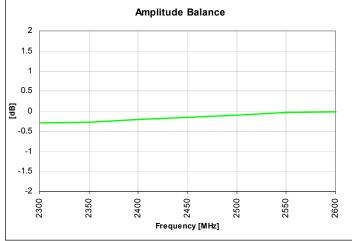
°C

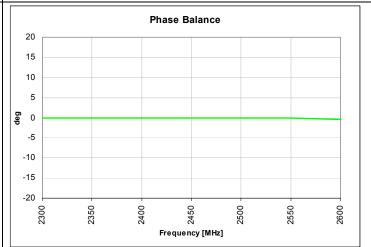


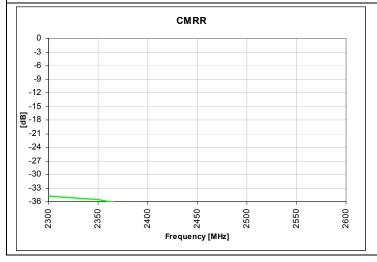
Typical Performance:2300 MHz. to 2600 MHz.





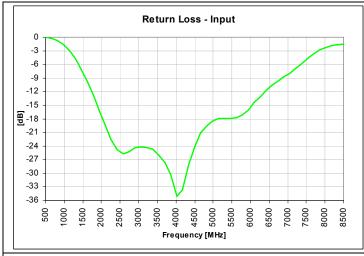


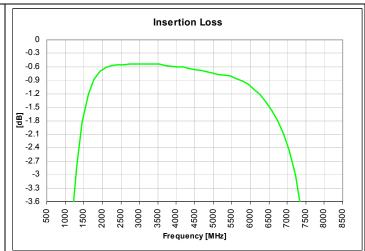


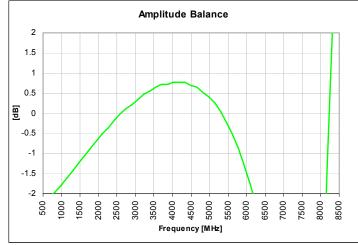


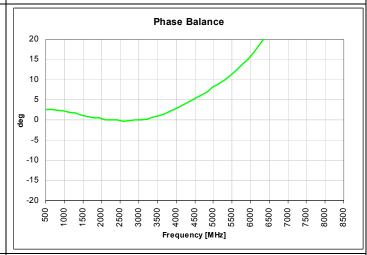


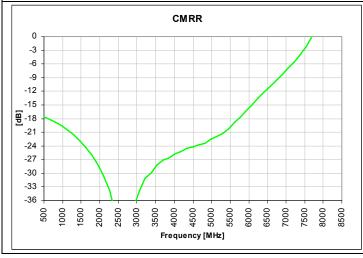
Wide Band Performance: 500 MHz. to 8500 MHz.













Available on Tape and Reel for Pick and Place Manufacturing.

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

Model BD2425N50100AHF



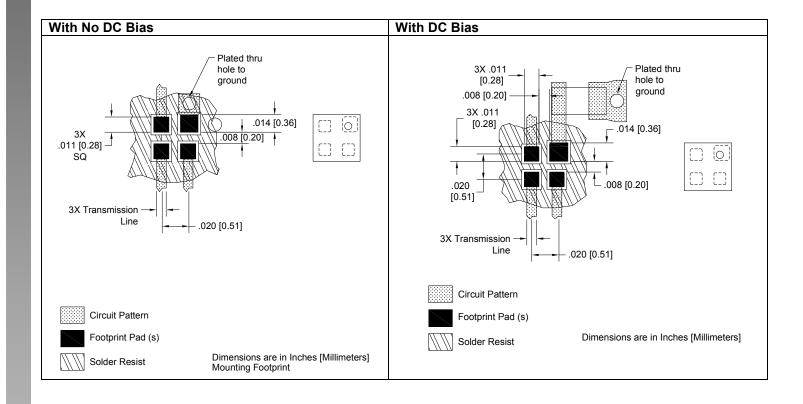


Mounting Configuration:

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.





(315) 432-8909 (800) 411-6596 +44 2392-232392

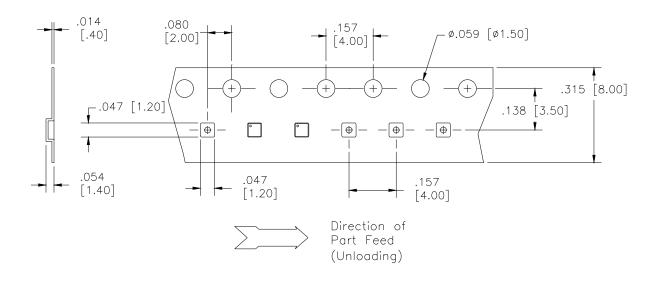
Available on Tape and Reel for Pick and Place Manufacturing.

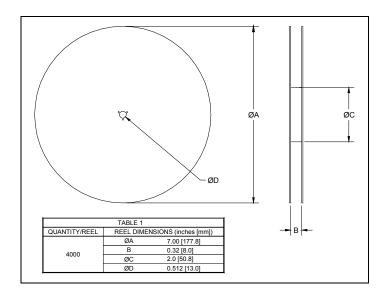




Packaging and Ordering Information

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