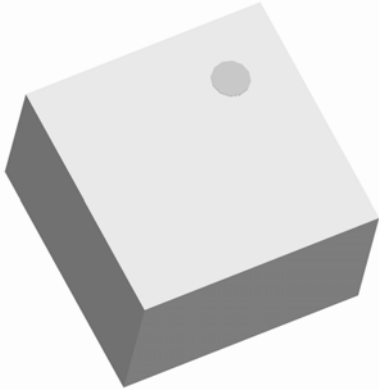


Xinger®

Ultra Low Profile 0404 Balun 50Ω to 100Ω Balanced



Description

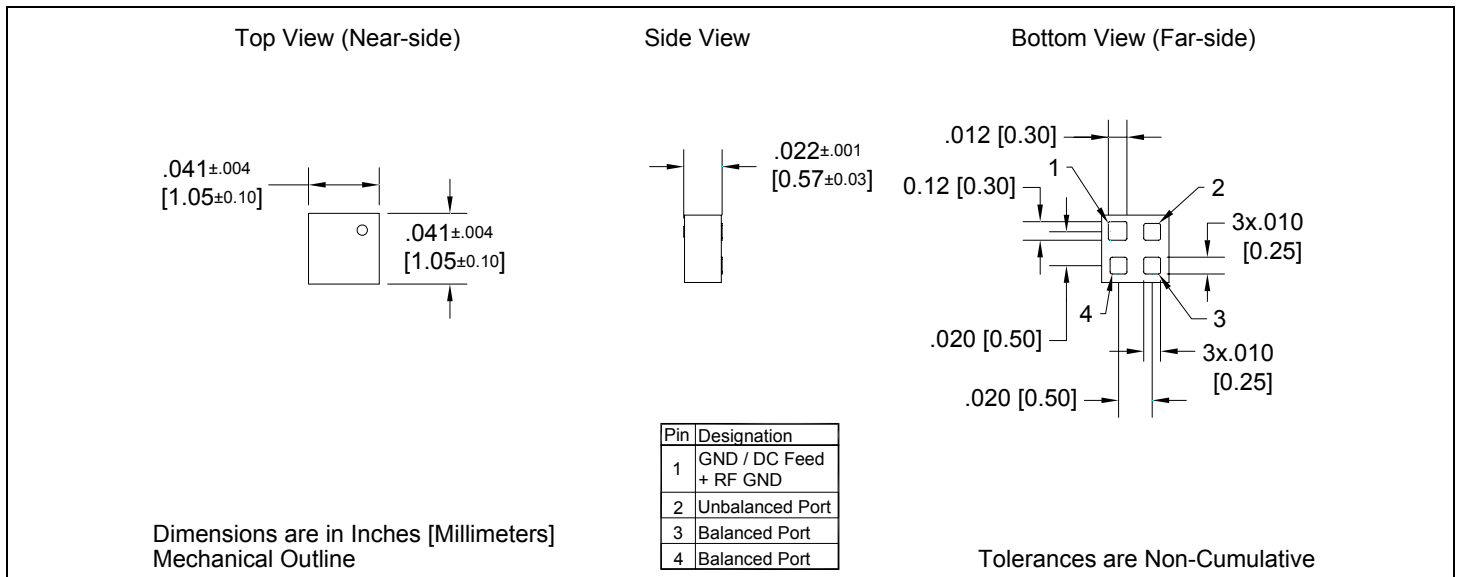
The BD2425N50100A00 is a low cost, low profile sub-miniature unbalanced to balanced transformer designed for differential inputs and output locations on modern chipsets in an easy to use surface mount package. The BD2425N50100A00 is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. The BD2425N50100A00 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 BD2425N50100A00 is available on tape and reel for pick and place high volume manufacturing.

Detailed Electrical Specifications: Specifications subject to change without notice.

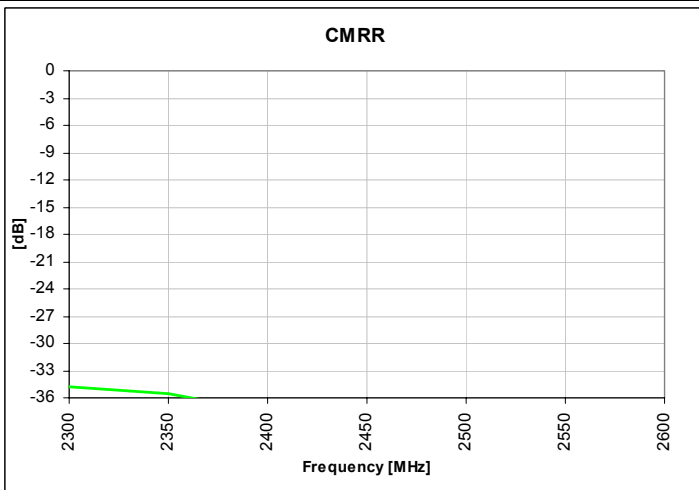
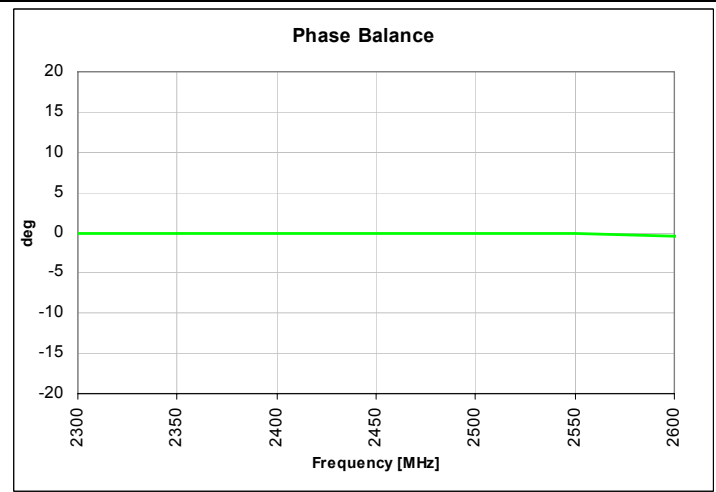
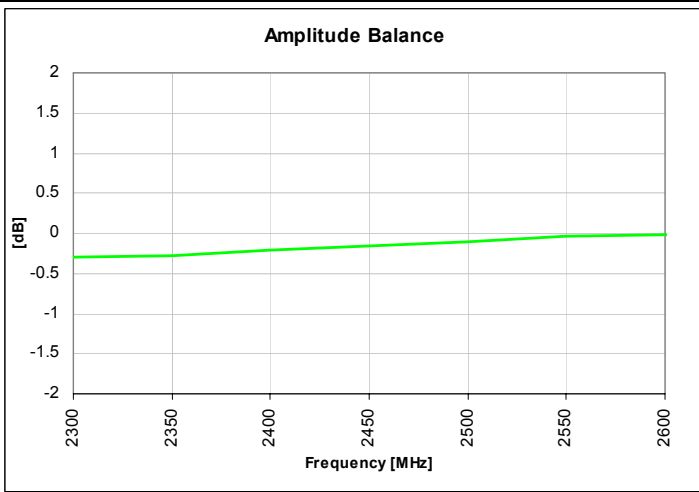
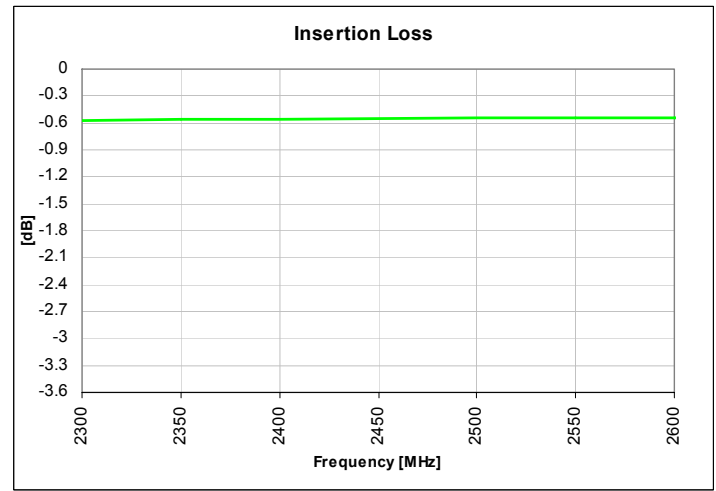
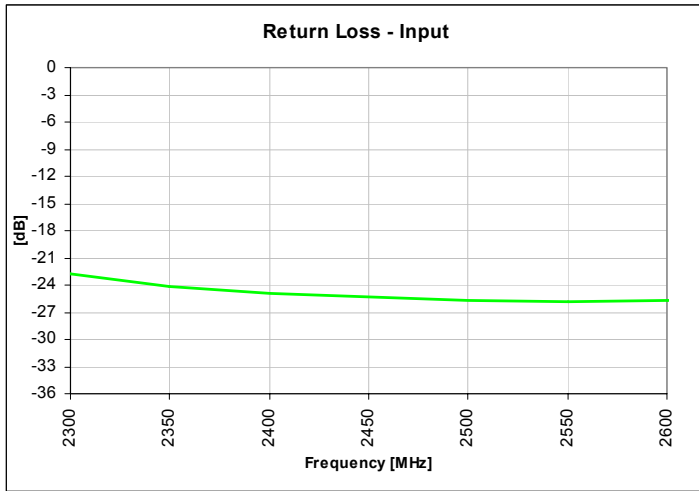
Features:	Parameter	ROOM (25°C)			Unit
		Min.	Typ.	Max	
<ul style="list-style-type: none"> • 2400 – 2500 MHz • 0.57 mm Height Profile • 50 Ohm to 2 x 50 Ohm • Low Insertion Loss • 802.11 b+g • MIMO b+g • Bluetooth • Zigbee • Surface Mountable • Tape & Reel • Non-conductive • RoHS Compliant 	Frequency	2400		2500	MHz
	Unbalanced Port Impedance		50		Ω
	Balanced Port Impedance		100		Ω
	Return Loss	18	25		dB
	Insertion Loss*		0.6	0.7	dB
	Amplitude Balance		0.2	0.6	dB
	Phase Balance		1	3	Degrees
	CMRR		37		dB
	Power Handling			1	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.



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

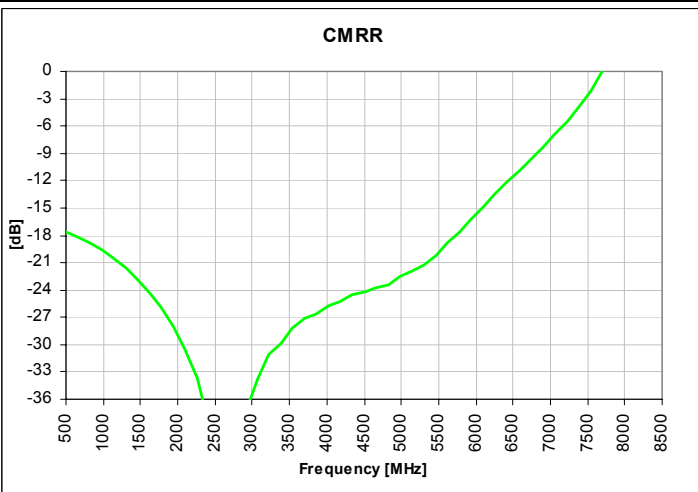
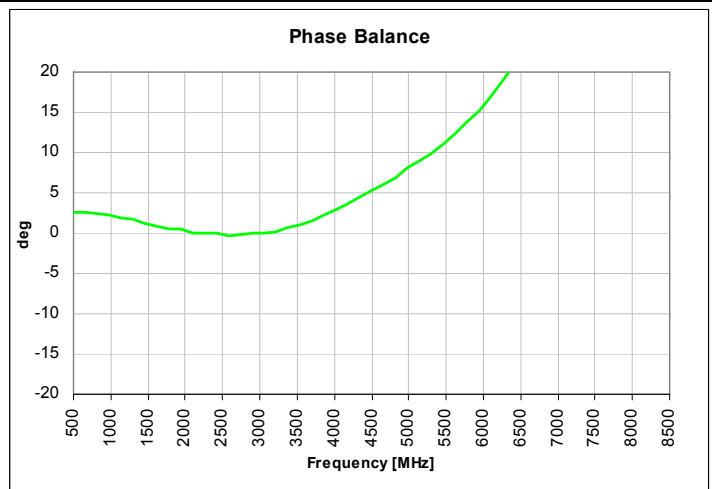
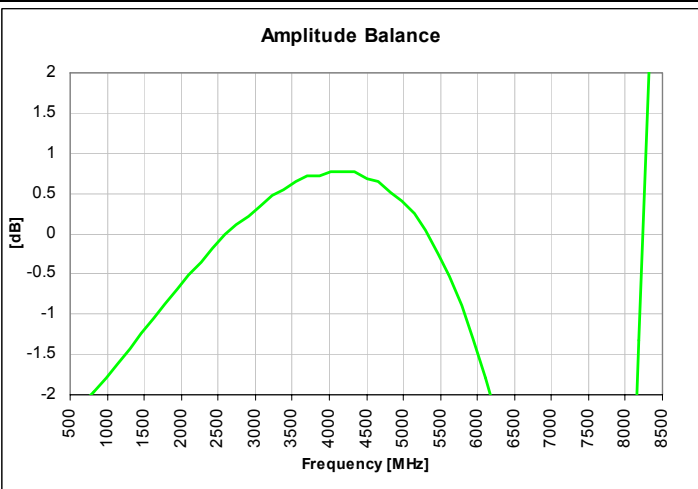
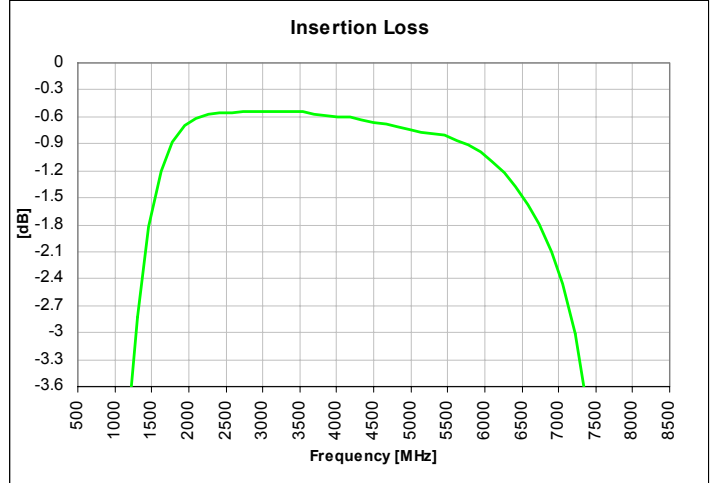
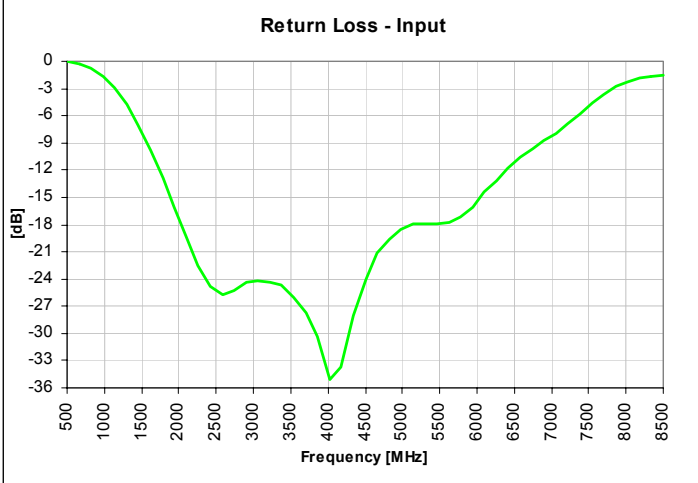
Available on Tape and Reel for Pick and Place Manufacturing.



Anaren

What'll we think of next?™

Wide Band Performance: 500 MHz. to 8500 MHz.

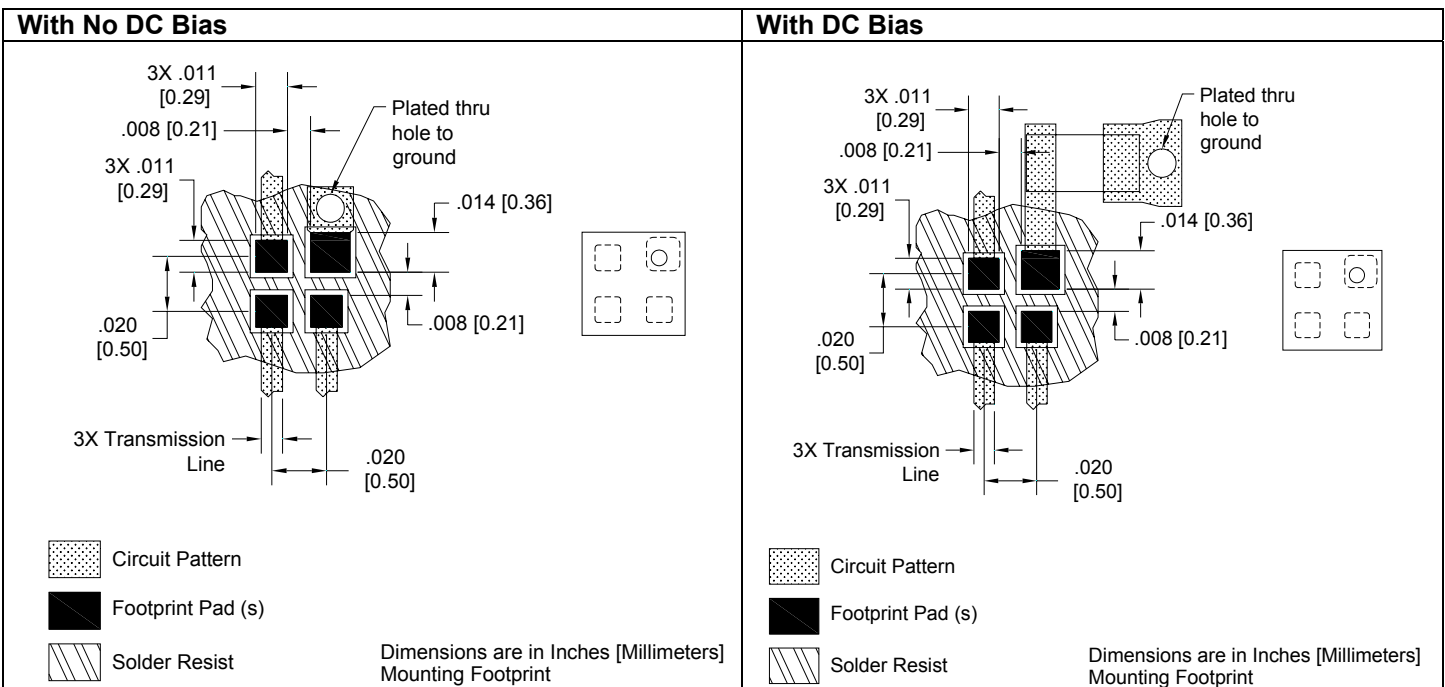


Mounting Configuration:

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.

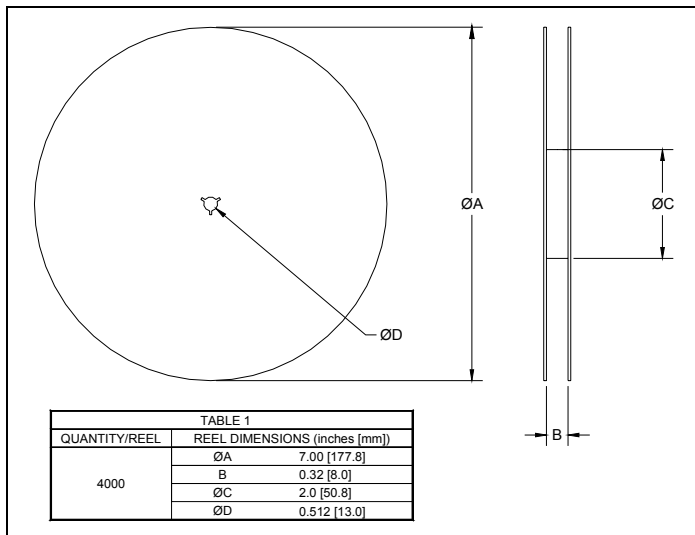
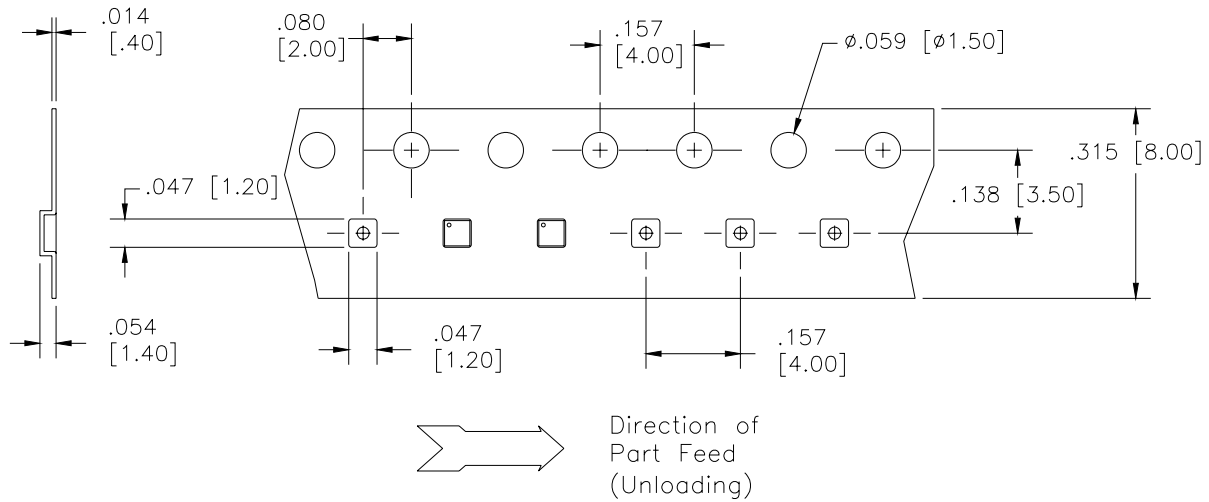
All of the Xinger components are constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability having X and Y thermal coefficient of expansion (CTE) of 17 ppm/°C.

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.



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.



BD 2425 J 50 100 A 00

Function	Frequency	Package Dimensions	Unbalanced Impedance	Balanced Impedance + Coupling	Plating Finish	Codes
B = Balun BD = Balun + DC F = Filter FB = Filter / Balun C = 3dB Coupler DC = Directional J = RF Jumper X = RF cross over	0110 = 100 – 1000 MHz 0810 = 800 – 1000 MHz 0922 = 950 – 2150 MHz 0826 = 800 – 6200 MHz 1222 = 1200 – 2200 MHz 1416 = 1400 – 1600 MHz 1722 = 1700 – 2200 MHz 2326 = 2300 – 2600 MHz 2425 = 2400 – 2500 MHz 3150 = 3100 – 5000 MHz 3436 = 3400 – 3600 MHz 4859 = 4800 – 5900MHz 5153 = 5100 – 5300 MHz 5159 = 5100 – 5900 MHz 5759 = 5700 – 5900 MHz	A = 150 x 150 mils <small>(4mm x 4mm)</small> C = 120 x 120 mils <small>(3mm x 3mm)</small> E = 100 x 80 mils <small>(2.5mm x 2mm)</small> J = 80 x 50 mils <small>(2mm x 1.25mm)</small> L = 60 x 30 mils <small>(1.5mm x 0.75mm)</small> N = 40 x 40 mils <small>(1mm x 1mm)</small>	50 = 50 Ohm 75 = 75 Ohm	25 = 25 Ω Balanced 30 = 30 Ω Balanced 50 = 50 Ω Balanced 75 = 75 Ω Balanced 100 = 100 Ω Balanced 150 = 150 Ω Balanced 200 = 200 Ω Balanced 300 = 300 Ω Balanced 400 = 400 Ω Balanced 03 = 3dB Hybrid 10 = 10dB Directional 20 = 20dB Directional	A = Gold P = Tin-Lead	

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

Available on Tape and Reel for Pick and Place Manufacturing.



Anaren

What'll we think of next?™

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Transformers Audio & Signal](#) category:

Click to view products by [Anaren](#) manufacturer:

Other Similar products are found below :

[CX2041NLT](#) [MGPWT-00449-P](#) [PL2615NL](#) [H1302FNLT](#) [H5012FNL](#) [H5077NLT](#) [H5084FNLT](#) [E4001NLT](#) [BX1194WNL](#) [HX2260FNL](#)
[HX5014FNL](#) [PA1136NL](#) [PA2437NL](#) [EX2024FNL](#) [T1049NL](#) [PE-65848FNLT](#) [PE-68023NL](#) [PH0905NL](#) [H1174FNL](#) [H1302FNL](#)
[H5015FNL](#) [H5062FNLT](#) [CX2047LNL](#) [MGPWT-00266-P](#) [MGPWT-00278-P](#) [MGPWT-00431-P](#) [BX1194WNLT](#) [HX5019FNL](#) [HX5084NL](#)
[TX1263NLT](#) [4-1879391-0](#) [PA0173NLT](#) [PA1284NLT](#) [T1142NL](#) [T60403-Y4021-X115](#) [HX6101FNL](#) [HX1148NL](#) [HX5020FNLT](#)
[HX5014FNLT](#) [T1124NL](#) [1879732-1](#) [B8846NL](#) [TX1267NLT](#) [TX1341NL](#) [H0013FNL](#) [H1270FNLT](#) [H2009FNL](#) [H5008FNLT](#) [H7008FNLT](#)
[H5004NLT](#)