



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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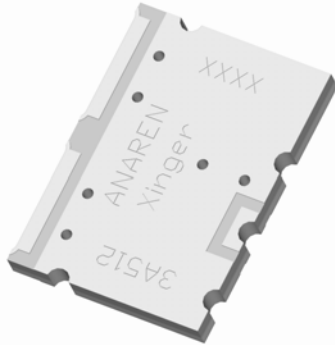




Balun 50Ω to 12.5Ω Balanced

Description

The 3A512 is a low profile balanced to unbalanced transformer designed for push-pull amplifiers in an easy to use surface mount package for Japanese PDC push-pull amplifier and mixer applications. These compact Xinger® surface mount baluns are ideal for high volume manufacturing and are more reliable and repeatable than traditional baluns. The 3A512 has an unbalanced port impedance of 50Ω and balanced port impedances of 12.5Ω to ground with a 25Ω balance between outputs. This eases the matching of the push-pull amplifier's power transistors, which have low impedance levels. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The Xinger® balun is a result of years of research and development culminating with a solution so unique, a patent is pending on the design approach. The 3A512 is available on tape and reel for pick and place high volume manufacturing.



Features:

- 1.4 – 1.6 GHz
- 180° Transformer
- 50 Ohm to 2 x 12.5 + j3.5 Ohm
- Low Insertion Loss
- High Power
- Even Order Suppression
- Input to Output DC Isolation
- Surface Mountable
- Tape & Reel
- Convenient Package

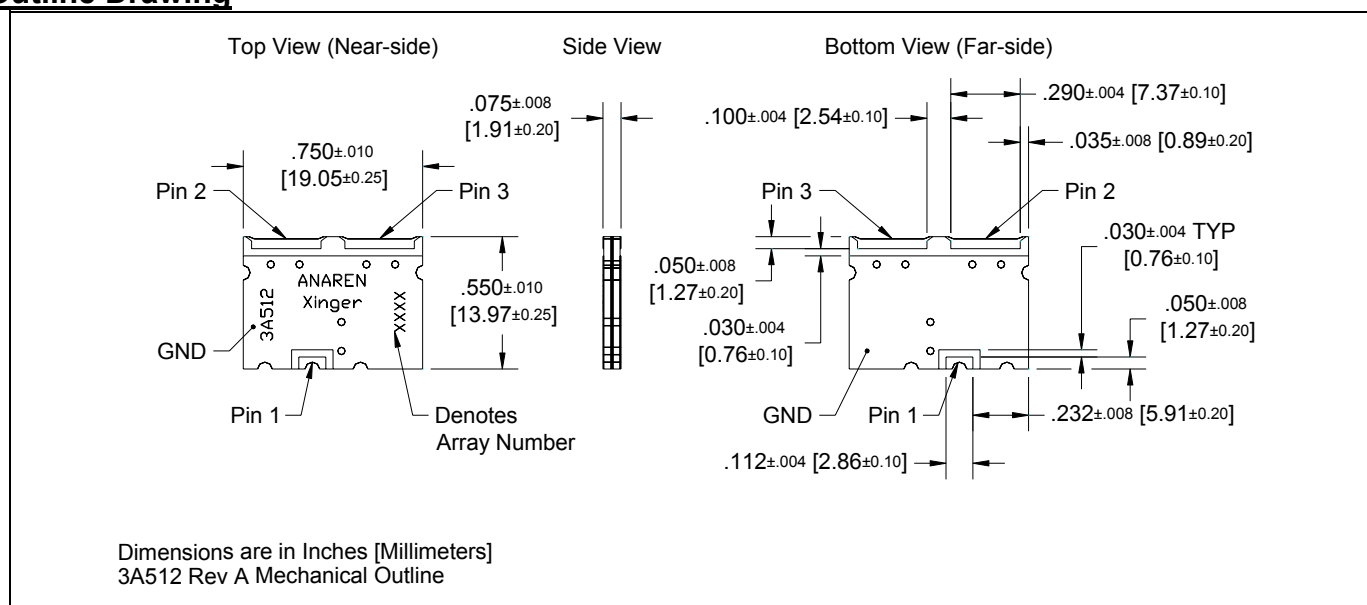
ELECTRICAL SPECIFICATIONS***

Frequency	Unbalanced Port Impedance	Balanced Port Impedance*	Return Loss	Insertion Loss**
GHz	Ohms	Ohms	dB Min	dB max
1.4 – 1.6	50	12.5+j3.5	15	0.30
Amplitude Balance	Phase Balance	Power Handling	ΘJC	Operating Temp.
dB max	Degrees max	Watts	°C / Watt	°C
0.40	180± 5.0	250	5.8	-55 to +85

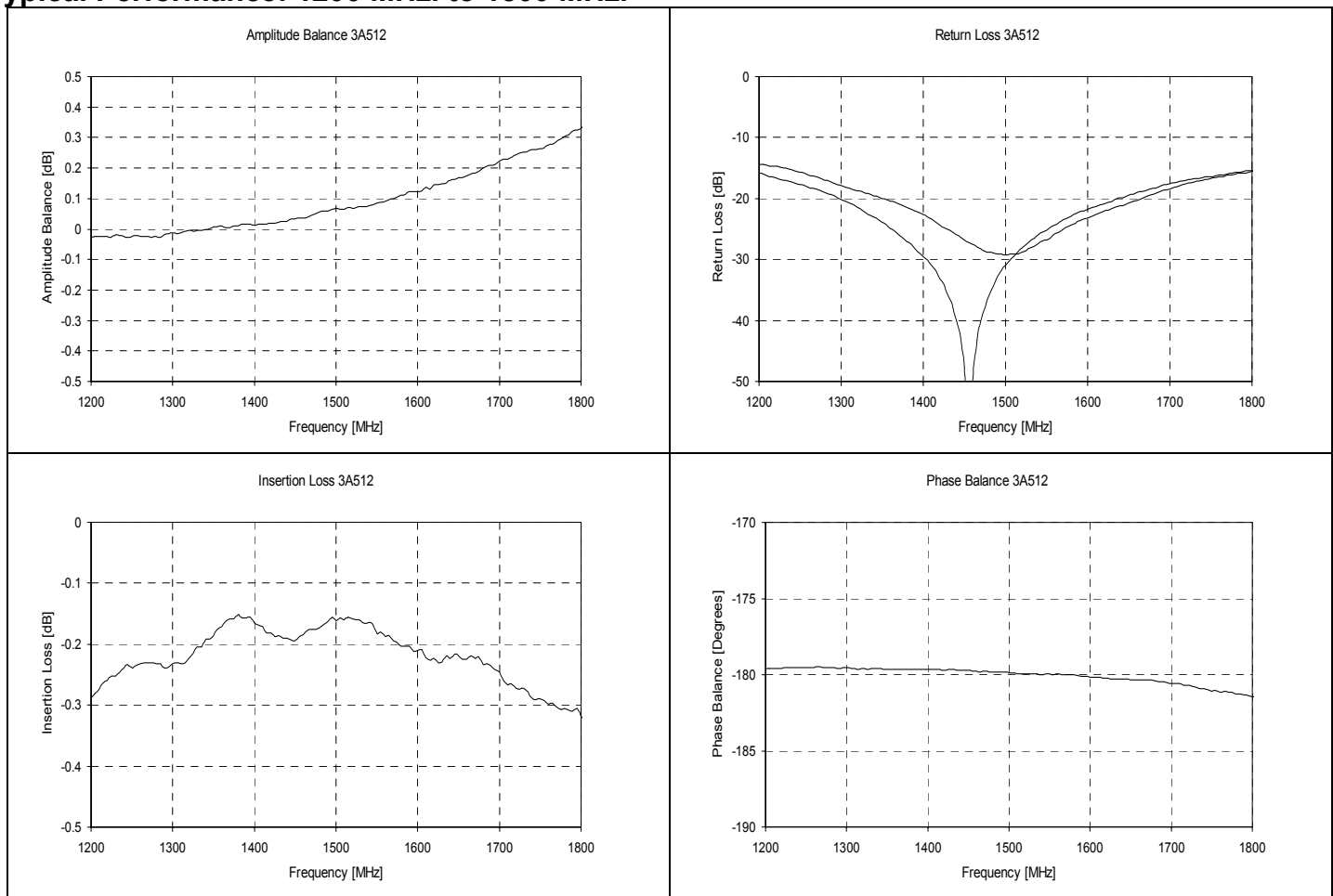
***Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

**Insertion loss specification excludes reflection loss. * 50Ω reference to ground

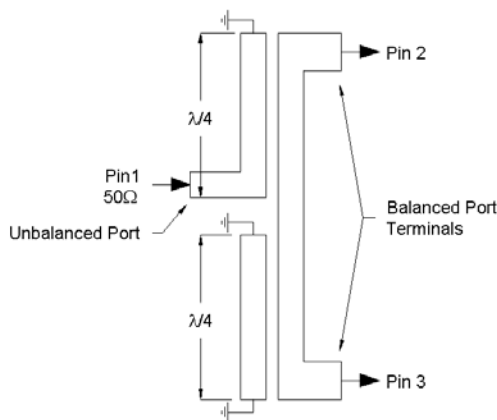
Outline Drawing



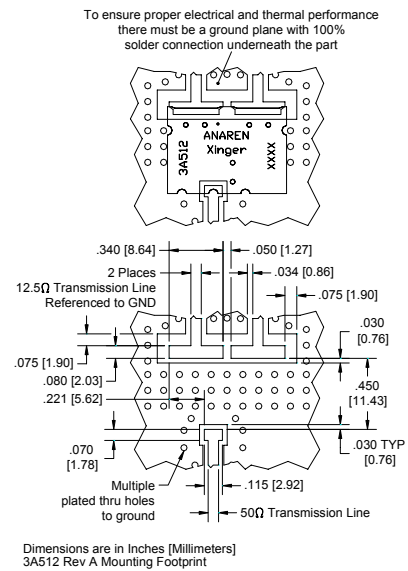
Typical Performance: 1200 MHz. to 1800 MHz.



Pin Configuration:



Mounting Configuration:



USA/Canada: (315) 432-8909
 Toll Free: (800) 544-2414
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Available on Tape and Reel For Pick and Place Manufacturing.

