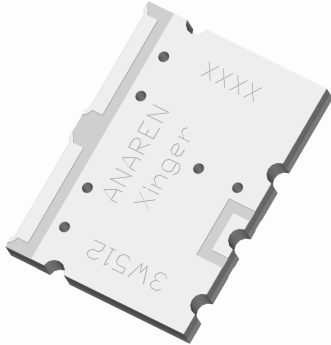




Balun 50Ω to 12.5Ω Balanced



Description

The 3W512 is a low profile balanced to unbalanced transformer designed for push-pull amplifiers in an easy to use surface mount package for PCS, DCS, and UMTS. These compact Xinger® surface mount baluns are ideal for high volume manufacturing and are more reliable and repeatable than traditional baluns. The 3W512 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 3W512 is available on tape and reel for pick and place high volume manufacturing.

www.DataSheet4U.com

Features:

- 1.8 – 2.2 GHz
- 180° Transformer
- 50 Ohm to 12.5+j5.5 Ohm
- Broad Band
- Low Insertion Loss
- High Power
- Even Order Suppression
- Input to Output DC Isolation
- Surface Mountable
- Tape & Reel
- Convenient Package

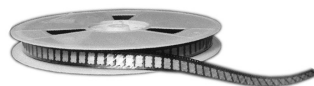
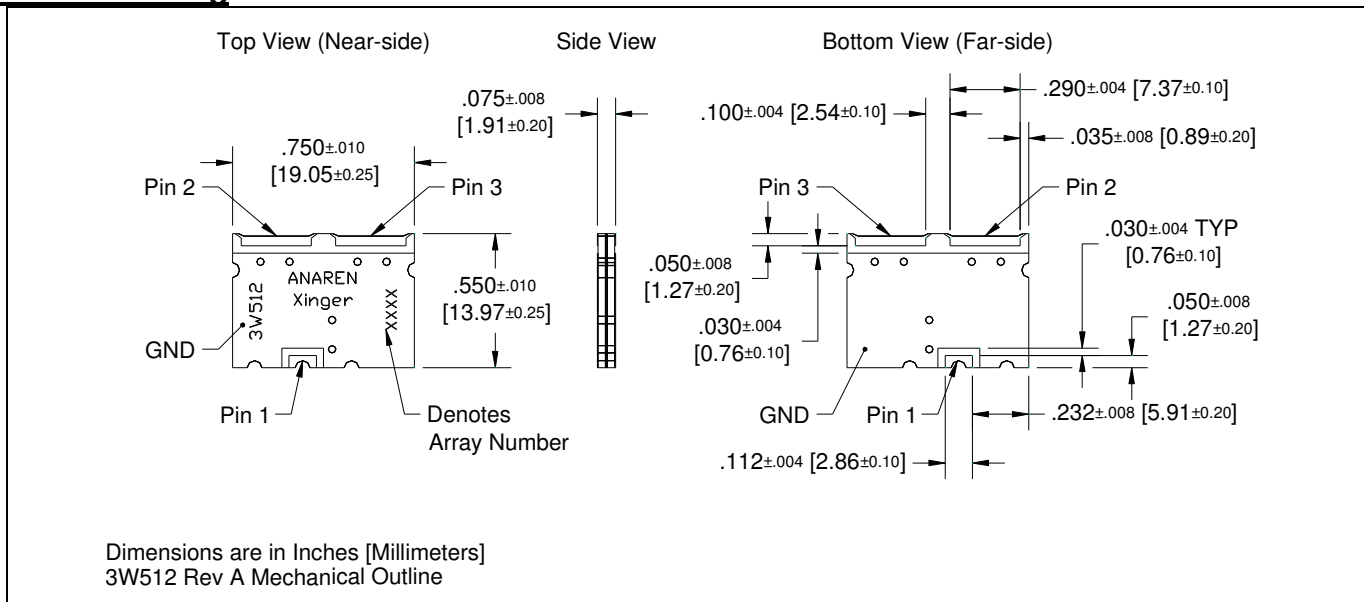
ELECTRICAL SPECIFICATIONS***

| Frequency | Unbalanced Port Impedance | Balanced Port Impedance* | Return Loss | Insertion Loss** |
|-------------------|---------------------------|--------------------------|-------------|------------------|
| GHz | Ohms | Ohms | dB Min | dB max |
| 1.8 – 2.2 | 50 | 12.5+j5.5 | 15 | 0.40 |
| Amplitude Balance | Phase Balance | Power Handling | ⊙JC | Operating Temp. |
| dB max | Degrees max | Watts | °C / Watt | °C |
| 0.40 | 180± 5.0 | 150 | 11.3 | -55 to +85 |

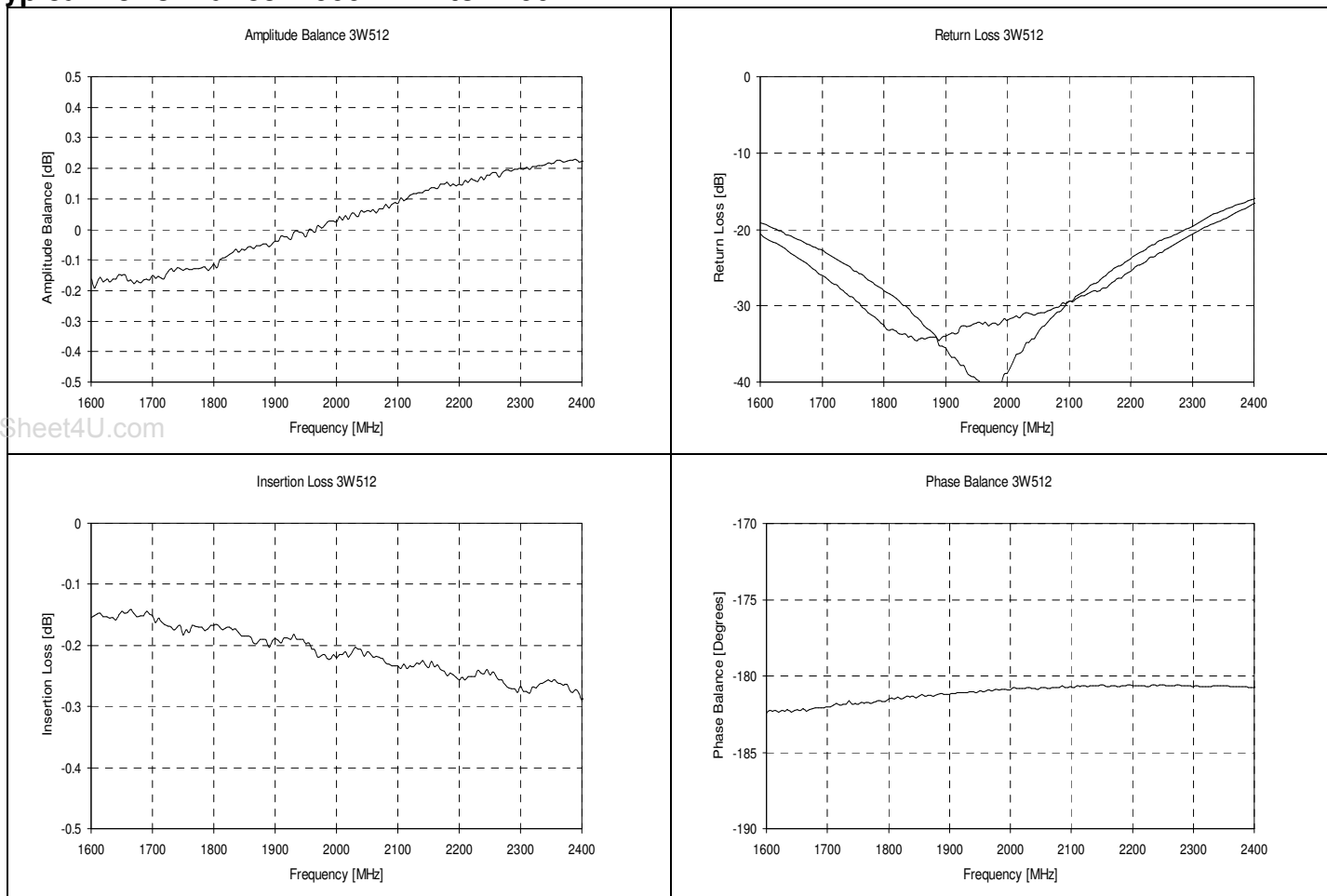
**Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

* 50Ω reference to ground

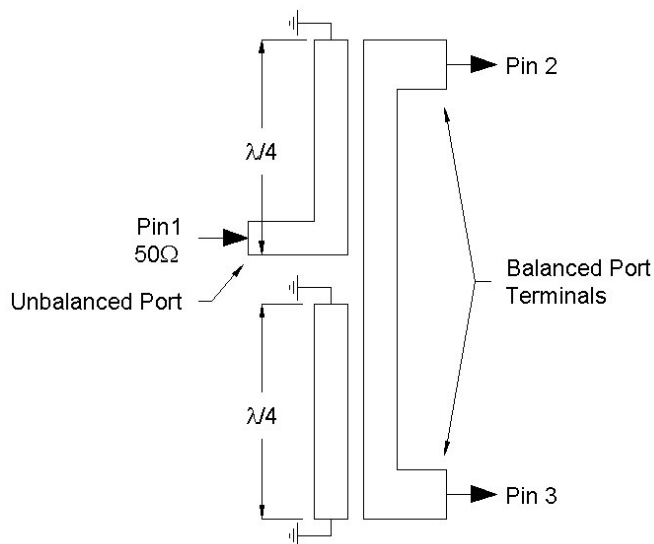
Outline Drawing



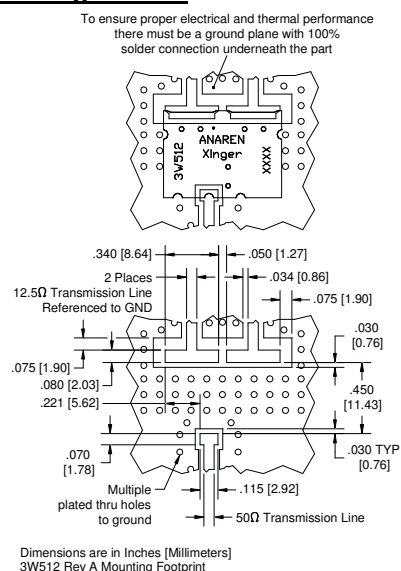
Typical Performance: 1600 MHz. to 2400 MHz.



Pin Configuration:



Mounting Configuration:



USA/Canada: (315) 432-8909
 Toll Free: (800) 544-2414
 Europe: +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.

