



Xinger Balun 50Ω to 25Ω Balanced



Description:

The 3A325 is a low profile balanced to unbalanced transformer designed for push-pull amplifiers in an easy to use surface mount package for NMT450 and TV broadcast applications. These compact Xinger® surface mount baluns are ideal for high volume manufacturing and are more reliable and repeatable than traditional baluns. The 3A325 has an unbalanced port impedance of 50Ω and balanced port impedances of 25Ω to ground with a 50Ω 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 3A325 is available on tape and reel for pick and place high volume manufacturing

Electrical Specifications***

Features:

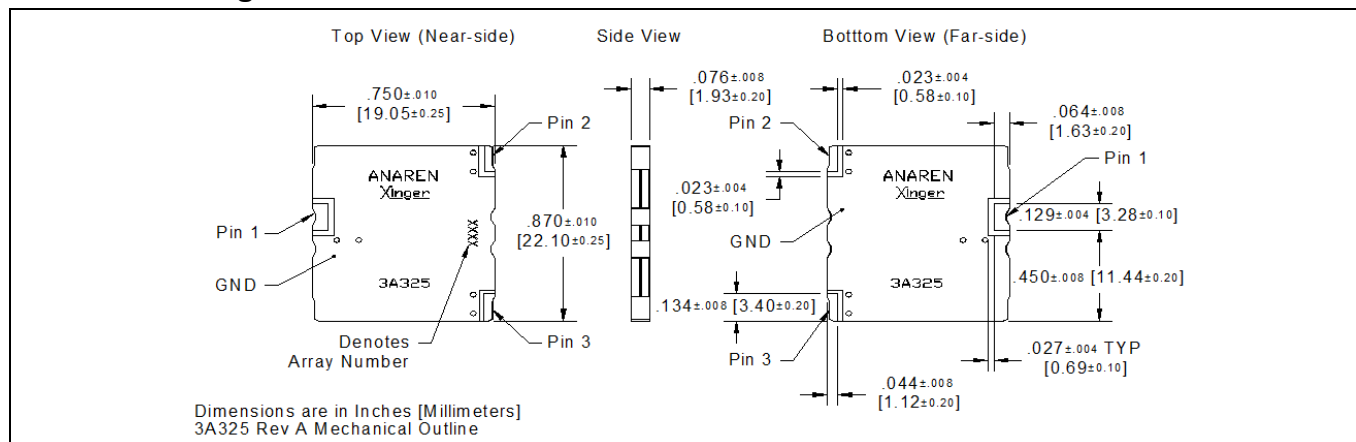
- 470 – 860 MHz
- 180° Transformer
- 50 Ohm to 25 Ohm
- Broad Band
- Low Insertion Loss
- High Power
- Even Order Harmonic Suppression
- Input to Output DC Isolation
- Surface Mountable
- Tape & Reel
- Convenient Package

| Frequency | Unbalanced Port Impedance | Balanced Port Impedance* | Return Loss | Insertion Loss** |
|-------------------|---------------------------|--------------------------|-------------|------------------|
| MHz | Ohms | Ohms | dB min | dB max |
| 470 - 860 | 50 | 25 | 10 | 0.65 |
| Amplitude Balance | Phase Balance | Power Handling | ΘJC | Operating Temp. |
| dB max | Degrees max | Watts | °C / Watt | °C |
| 0.5 | 180± 5.0 | 275 | 4.4 | -55 to +85 |

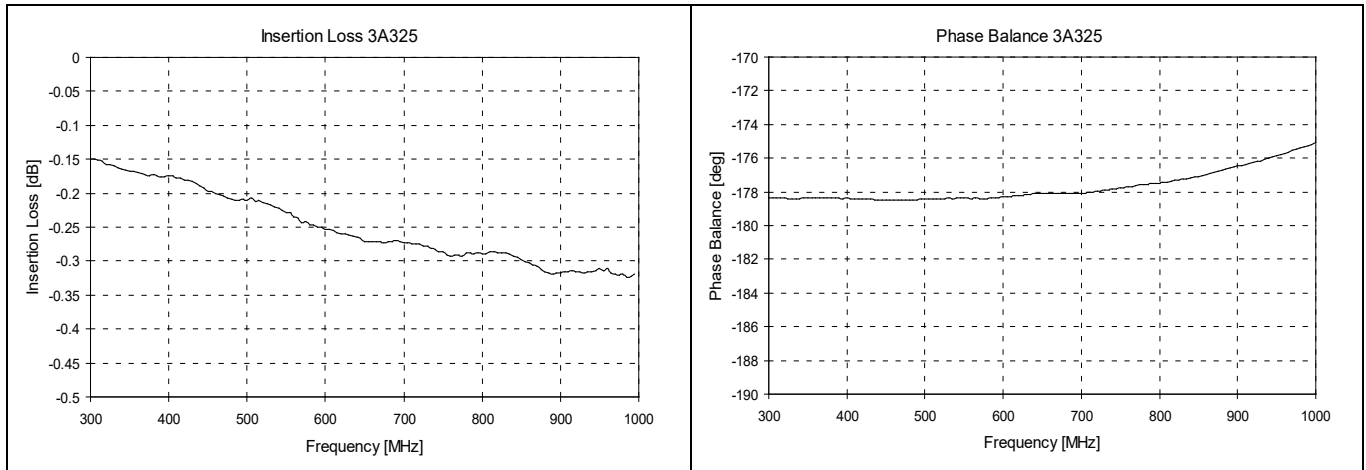
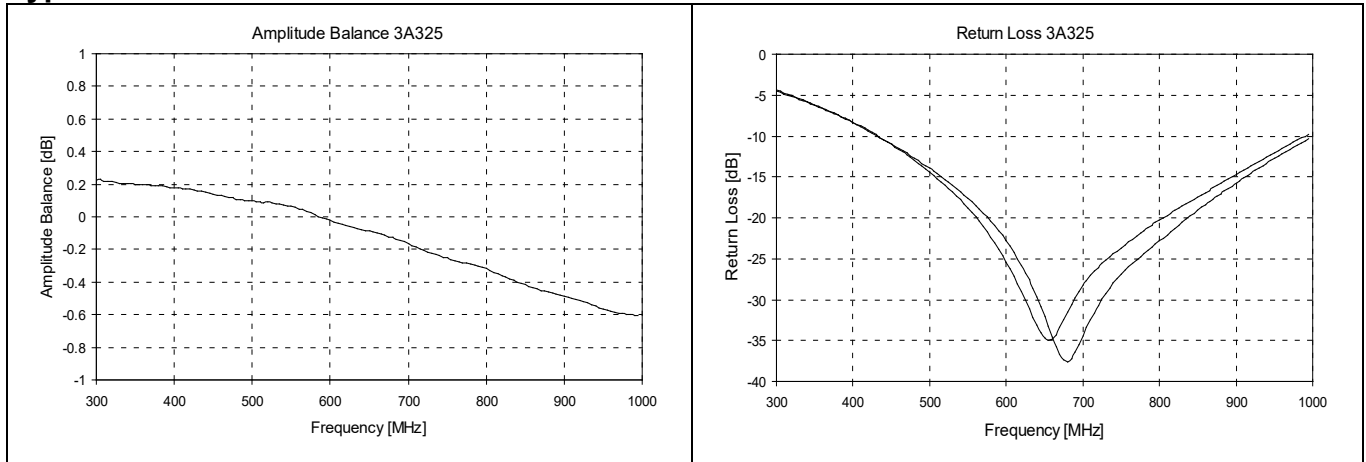
***Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

**Insertion Loss specification excludes reflected power. *25Ω reference to ground

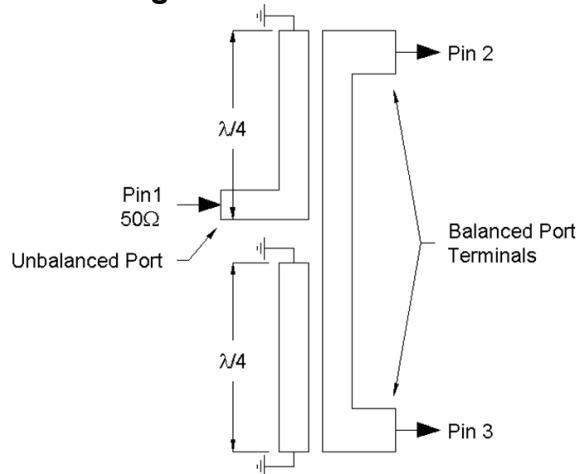
Outline Drawing:



Typical Performance 300 MHz to 1000 MHz

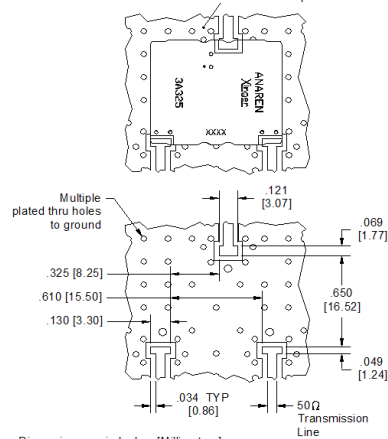


Pin Configuration



Mounting Configuration

To ensure proper electrical and thermal performance there must be a ground plane with 100% solder connection underneath the part



Contact us:

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