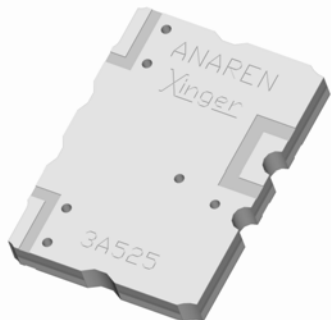


Xinger®

Balun Transformers 50Ω to 25Ω Balanced



Description

The 3A525 is a low profile balanced to unbalanced transformer in an easy to use surface mount package covering Japanese PDC, DCS and PCS receive push-pull amplifier and mixer applications. The 3A525 has an unbalanced impedance of 50Ω and a balanced port impedances of 25Ω to ground with 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 (-3 dB) with 180° phase differential. The 3A525 is available on tape and reel for pick and place high volume manufacturing.

Features:

- 1.5 – 1.9 GHz
- 180° Transformer
- 50 Ohm to 2 x 25 Ohm
- Low Insertion Loss
- High Power
- Input to Output DC Isolation
- Surface Mountable
- Tape & Reel
- Convenient Package

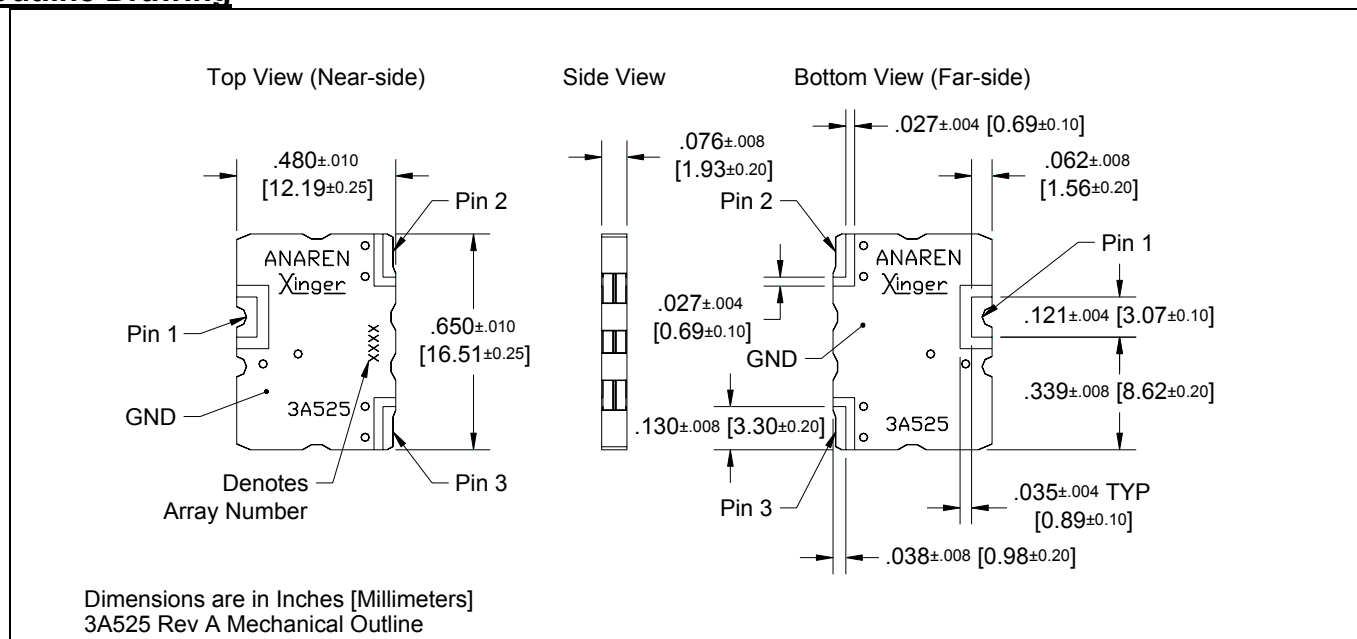
ELECTRICAL SPECIFICATIONS***

| Frequency | Unbalanced Port Impedance | Balanced Port Impedance* | Return Loss | Insertion Loss** |
|-------------------|---------------------------|--------------------------|-------------|------------------|
| GHz | Ohms | Ohms | dB min | dB max |
| 1.5 – 1.9 | 50 | 25 | 15 | 0.35 |
| Amplitude Balance | Phase Balance | Power Handling | ΘJC | Operating Temp. |
| dB max | Degrees max | Watts | °C / Watt | °C |
| 0.40 | 180± 5.0 | 150 | 7.2 | -55 to +85 |

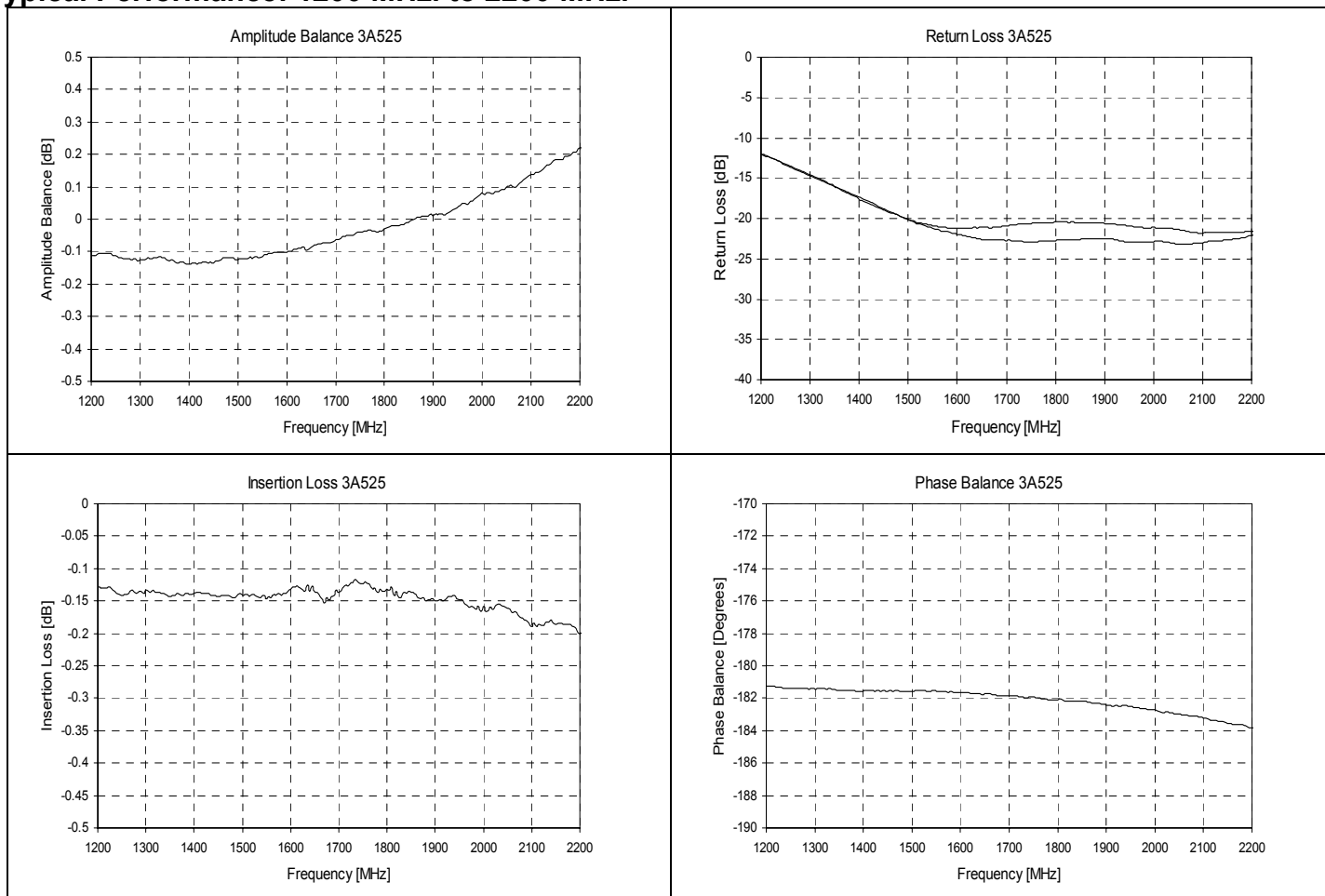
***Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

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

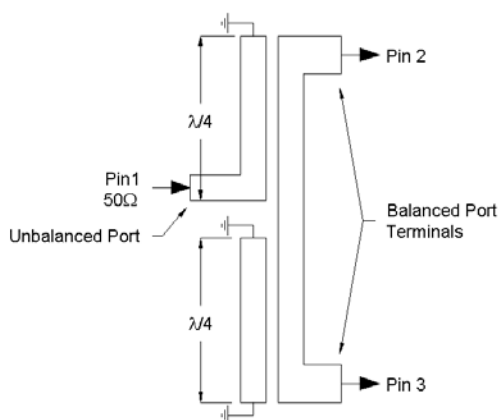
Outline Drawing



Typical Performance: 1200 MHz. to 2200 MHz.

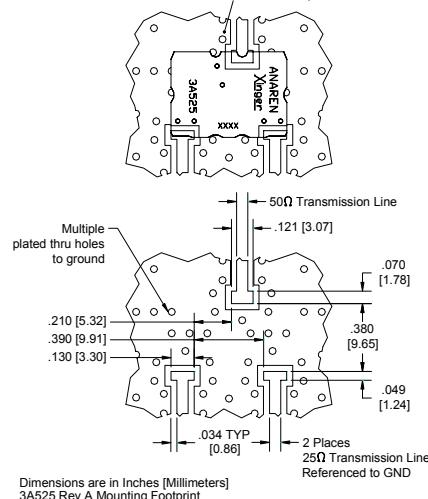


Pin Configuration



Mounting Configuration

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



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

Available on Tape and Reel For Pick and Place Manufacturing.

