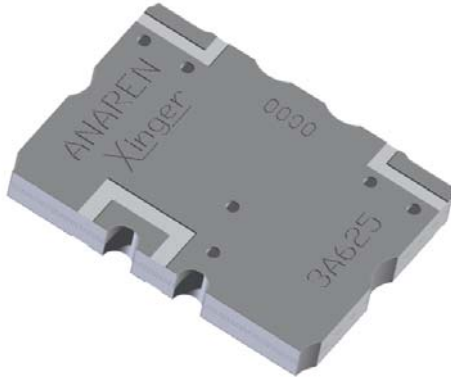


Xinger®

Balun Transformers 50Ω to 25Ω Balanced



Description

The 3A625 is a low profile balanced to unbalanced transformer designed for push-pull amplifiers in an easy to use surface mount package for W-LAN and MMDS applications. These compact Xinger® surface mount baluns are ideal for high volume manufacturing and are more reliable and repeatable than traditional baluns. The 3A625 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 3A625 is available on tape and reel for pick and place high volume manufacturing.

Features:

- 2.3 – 2.7 GHz
- 180° Transformer
- 50 Ohm to 2 x 25 Ohm
- Low Insertion Loss
- High Power
- Even Order Suppression
- Input to Output DC Isolation
- Surface Mountable
- Tape & Reel
- Convenient Package

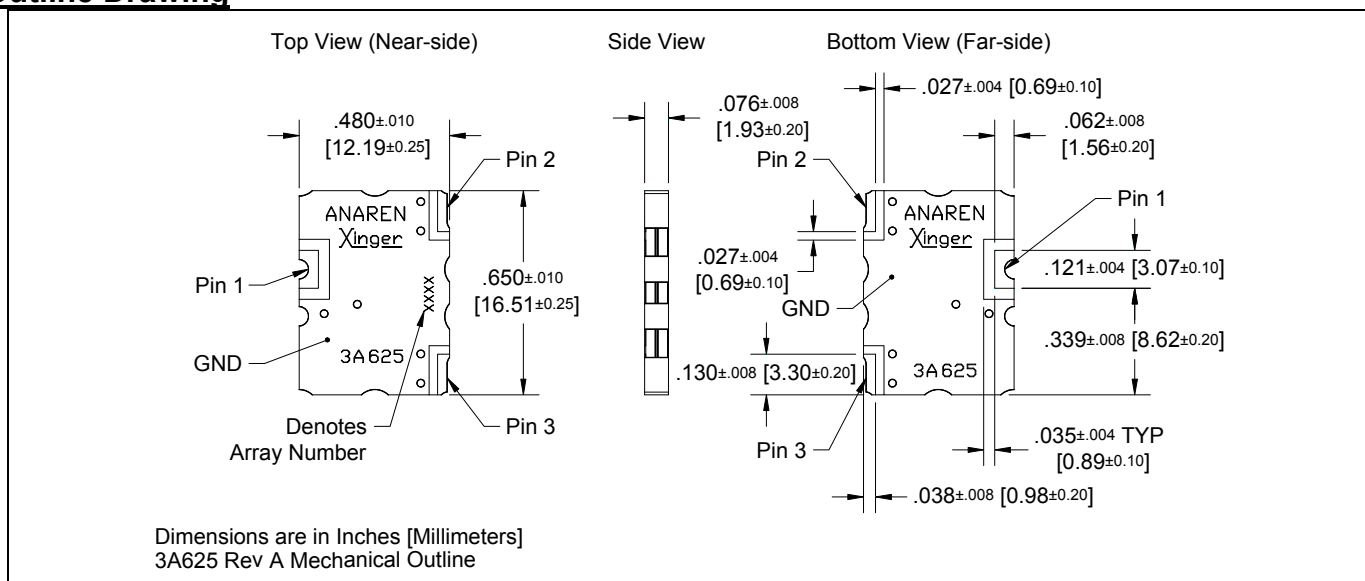
ELECTRICAL SPECIFICATIONS***

Frequency	Unbalanced Port Impedance	Balanced Port Impedance*	Return Loss	Insertion Loss**
GHz	Ohms	Ohms	dB min	dB max
2.3 – 2.7	50	25	15	0.35
Amplitude Balance	Phase Balance	Power Handling	⊙JC	Operating Temp.
dB max	Degrees max	Watts	°C / Watt	°C
0.40	180± 5.0	150	15.8	-55 to +85

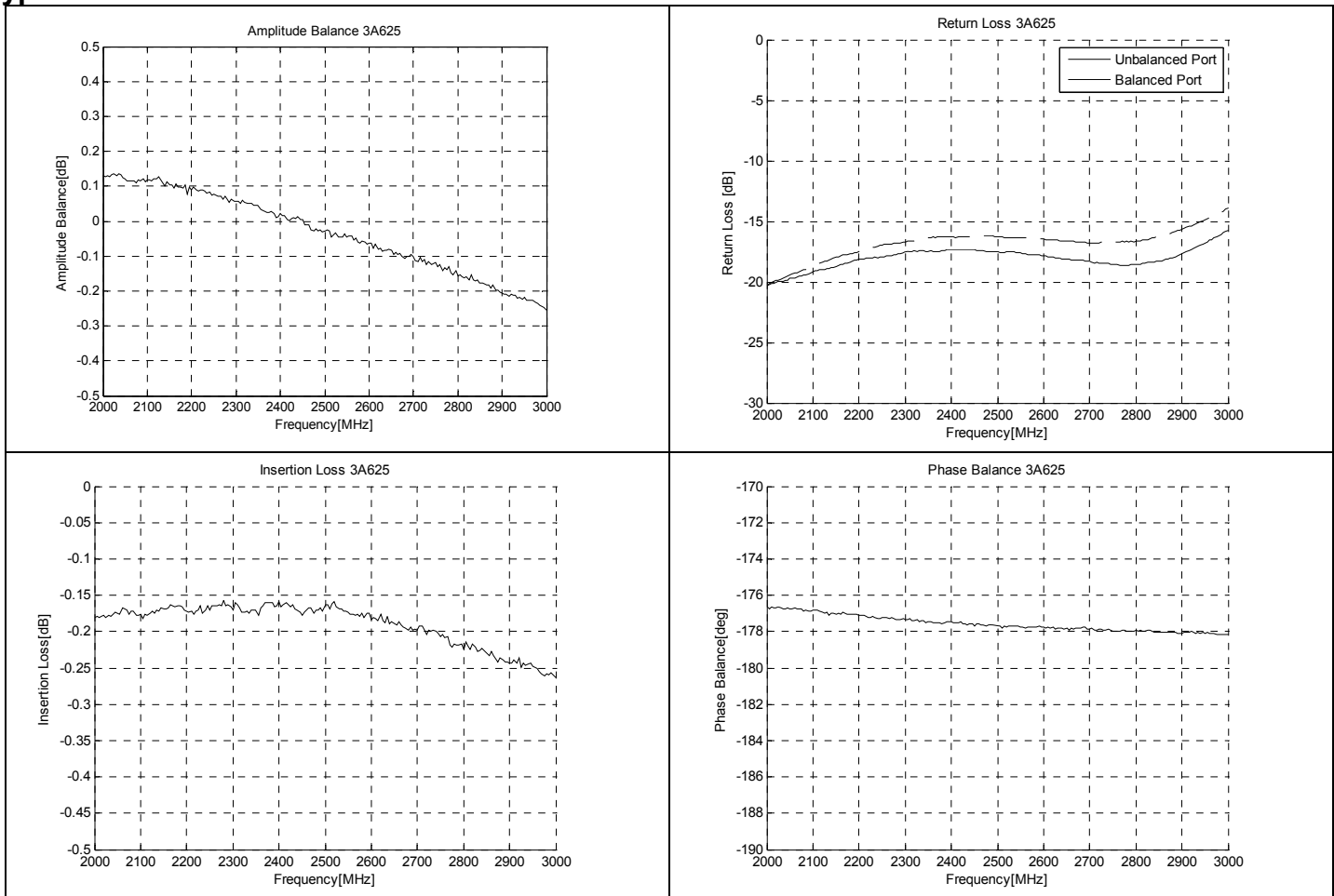
***Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

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

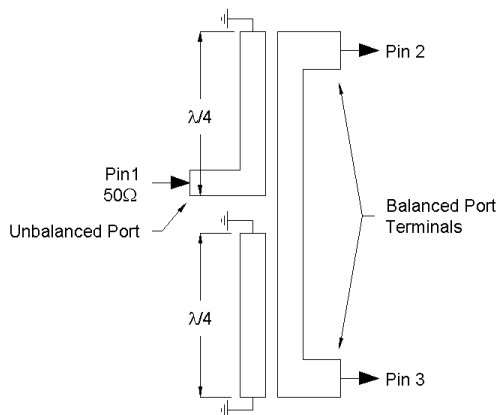
Outline Drawing



Typical Performance: 2000 MHz. to 3000 MHz.

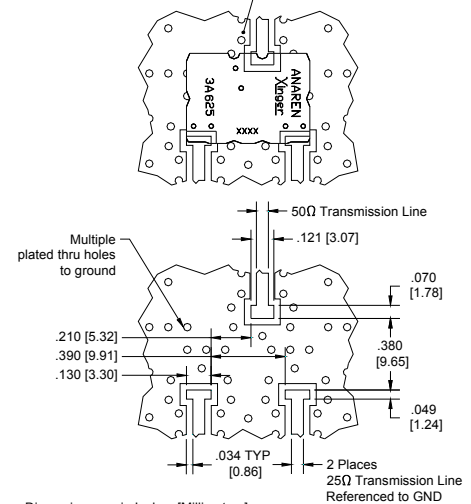


Pin Configuration



Mounting Configuration

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



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Available on Tape and Reel For Pick and Place Manufacturing.



Anaren®
What'll we think of next?™