

# Xinger®

## 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.

### 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

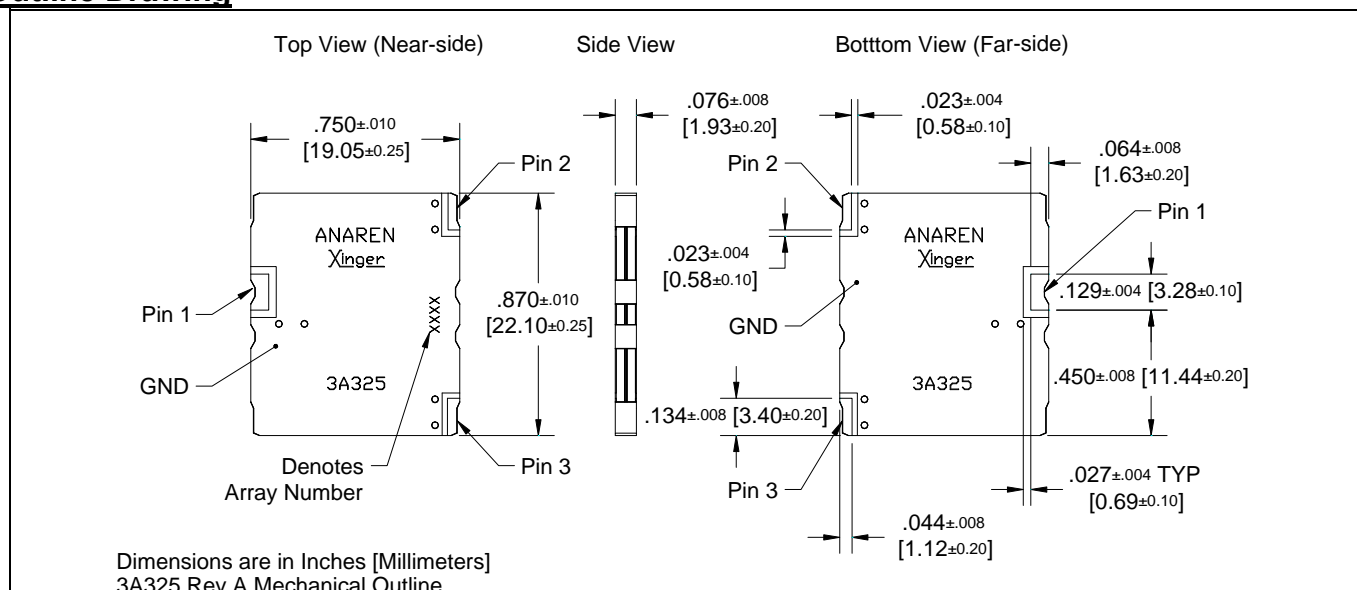
### ELECTRICAL SPECIFICATIONS\*\*\*

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

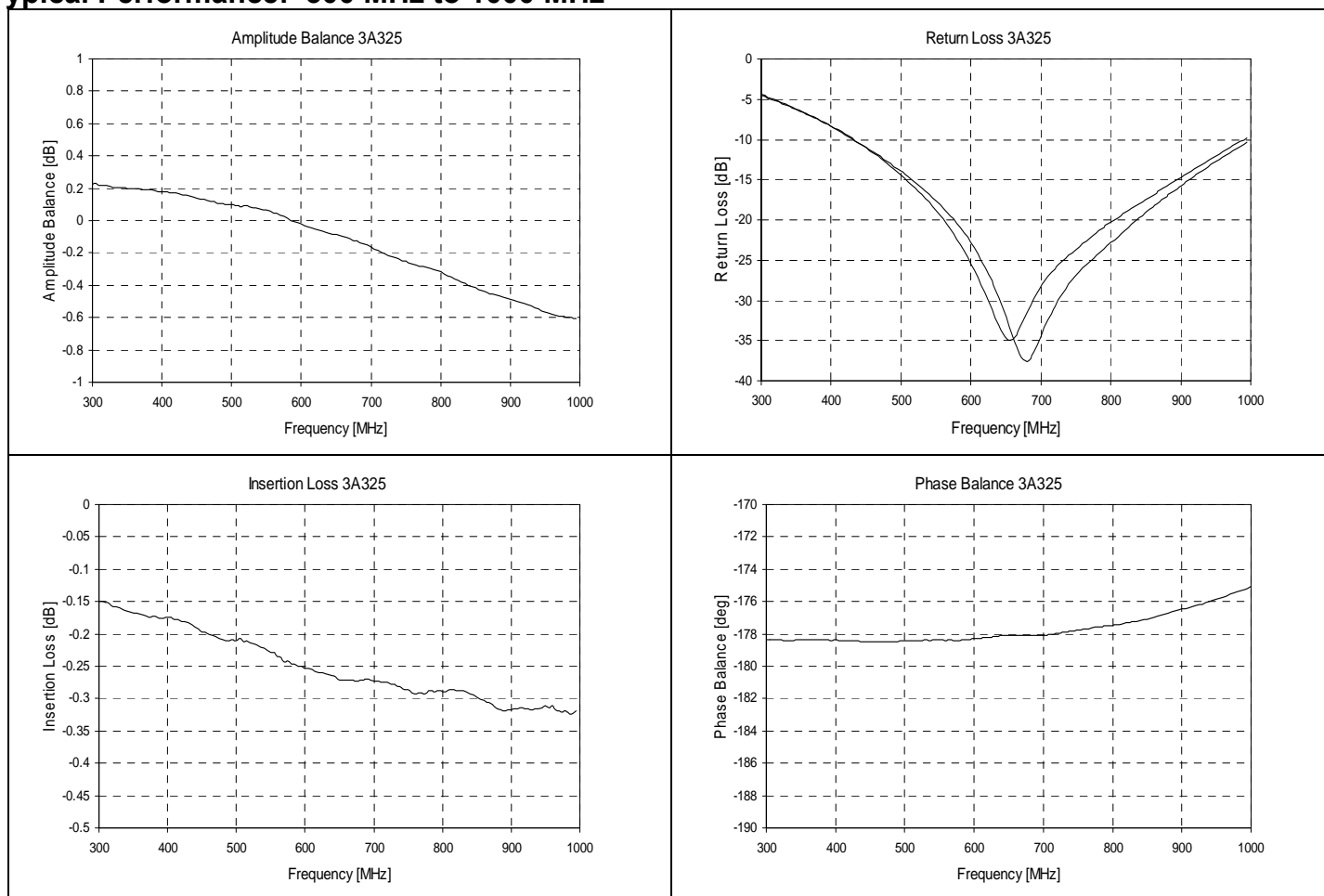
\*\*\*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

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

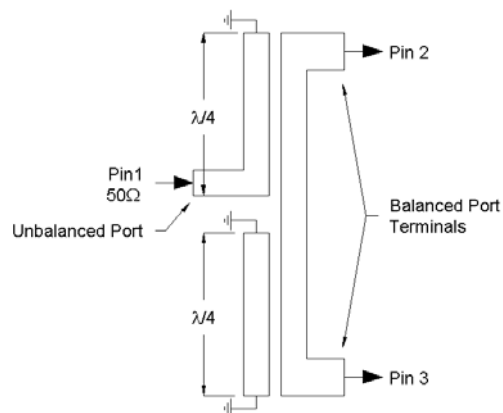
### Outline Drawing



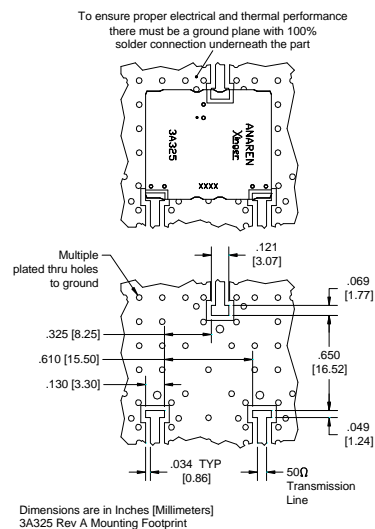
### Typical Performance: 300 MHz to 1000 MHz



### Pin Configuration:



### Mounting Configuration:



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

Available on Tape and Reel For Pick and Place Manufacturing.



# Anaren

What'll we think of next