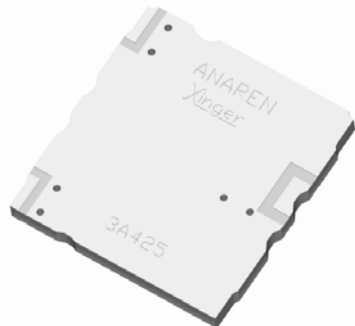


# Xinger®

## Xinger Balun 50Ω to 25Ω Balanced



### Description

The 3A425 is a low profile balanced to unbalanced transformer designed for push-pull amplifiers in an easy to use surface mount package covering GSM, D-AMPS and NMT900 applications. These compact Xinger® surface mount baluns are ideal for high volume manufacturing and are more reliable and repeatable than traditional baluns. The 3A425 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 3A425 is available on tape and reel for pick and place high volume manufacturing.

### Features:

- 800 – 1000 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

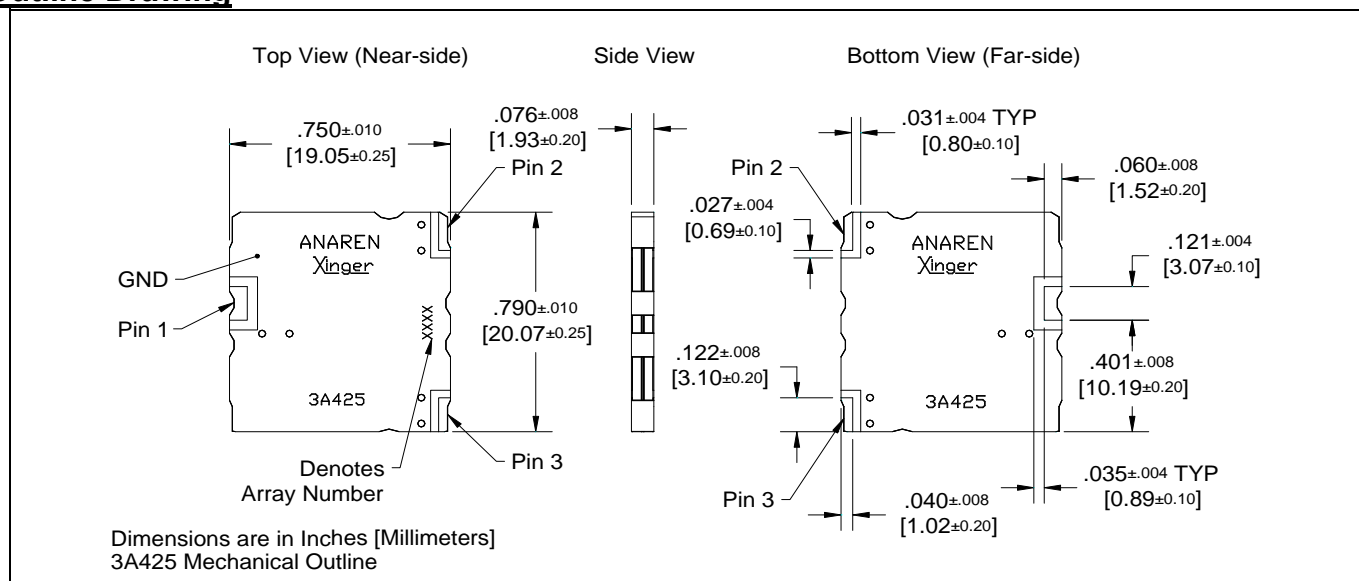
### ELECTRICAL SPECIFICATIONS\*\*\*

Frequency	Unbalanced Port Impedance	Balanced Port Impedance*	Return Loss	Insertion Loss**
MHz	Ohms	Ohms	dB min	dB max
800 - 1000	50	25	15	0.35
Amplitude Balance	Phase Balance	Power Handling	ΘJC	Operating Temp.
dB max	Degrees max	Watts	°C / Watt	°C
0.4	180± 5.0	250	5.3	-55 to +85

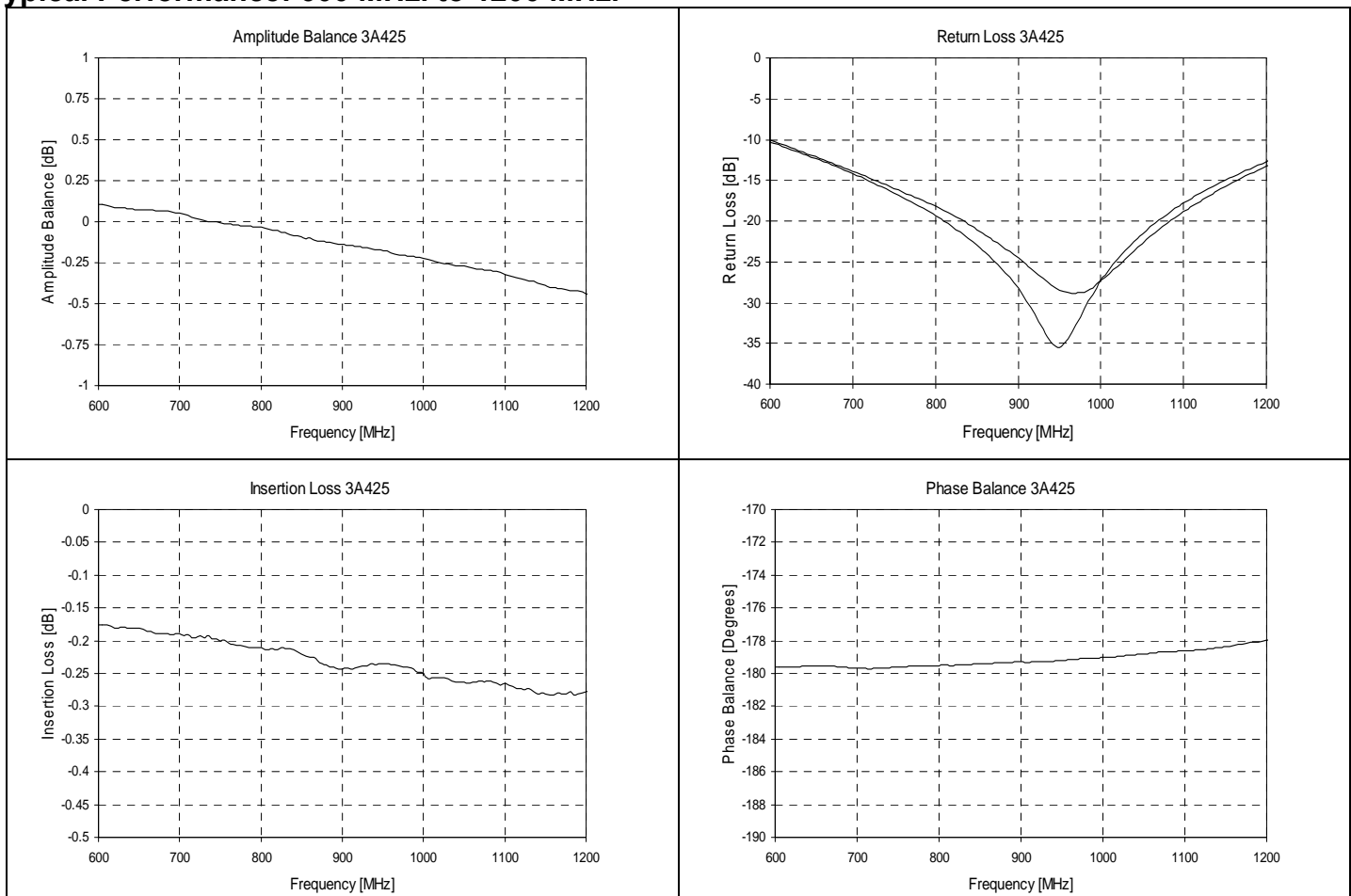
\*\*\*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. Specifications subject to change without notice.

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

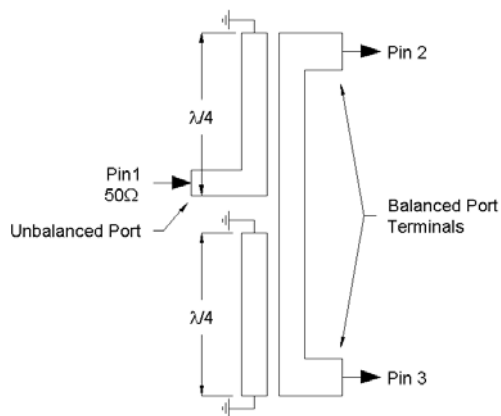
### Outline Drawing



### Typical Performance: 600 MHz. to 1200 MHz.

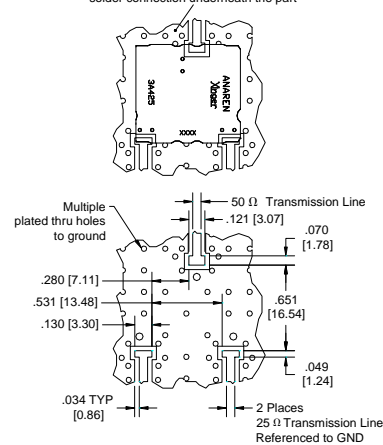


### Pin Configuration:



### Mounting Configuration:

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



Dimensions are in Inches [Millimeters]  
3A425 Rev A Mounting Footprint

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

Available on Tape and Reel For Pick and Place Manufacturing.

