

Balun Transformers



Description

The 3A512 is a low profile balanced to unbalanced transformer in an easy to use surface mount package covering PDC push-pull amplifier and mixer applications. The 3A512 has an unbalanced port impedance of 50Ω and balanced port impedance of 12.5Ω to ground with 25Ω 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° phase differential.

Features

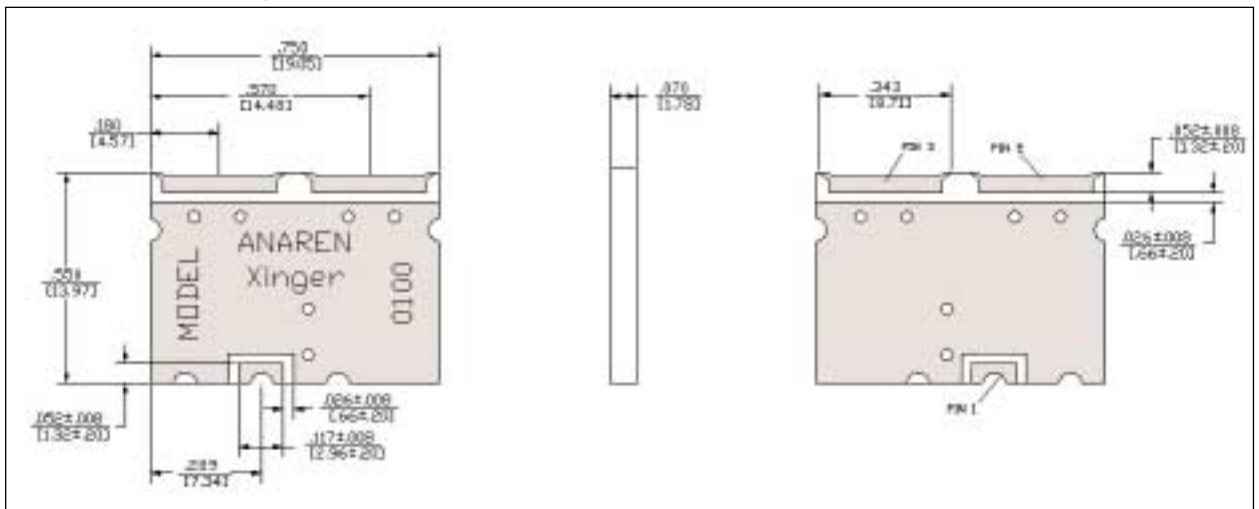
- 1.4 - 1.6 GHz
- 12.5Ω (to ground) Balanced Port Impedance
- Low Insertion Loss
- High Power
- Input to Output DC Isolation
- Surface Mountable
- Tape And Reel
- Convenient Package

Electrical Specifications

Frequency GHz	Port Impedance Unbalanced	Port Impedance Balanced to Ground
1.4 - 1.6	50Ω	12.5 + j3.5Ω
Return Loss dB Min	Amplitude Bal. dB (p-p)	Phase Balance degrees
15	0.40	180 ± 5.0
Insertion Loss dB Max	Θ _{JC} °C/diss. Watt	Power Watts Ave/CW
0.30	5.8	250

Specifications subject to change without notice.

Outline Drawing



Available on Tape and Reel for Pick and Place Manufacturing.

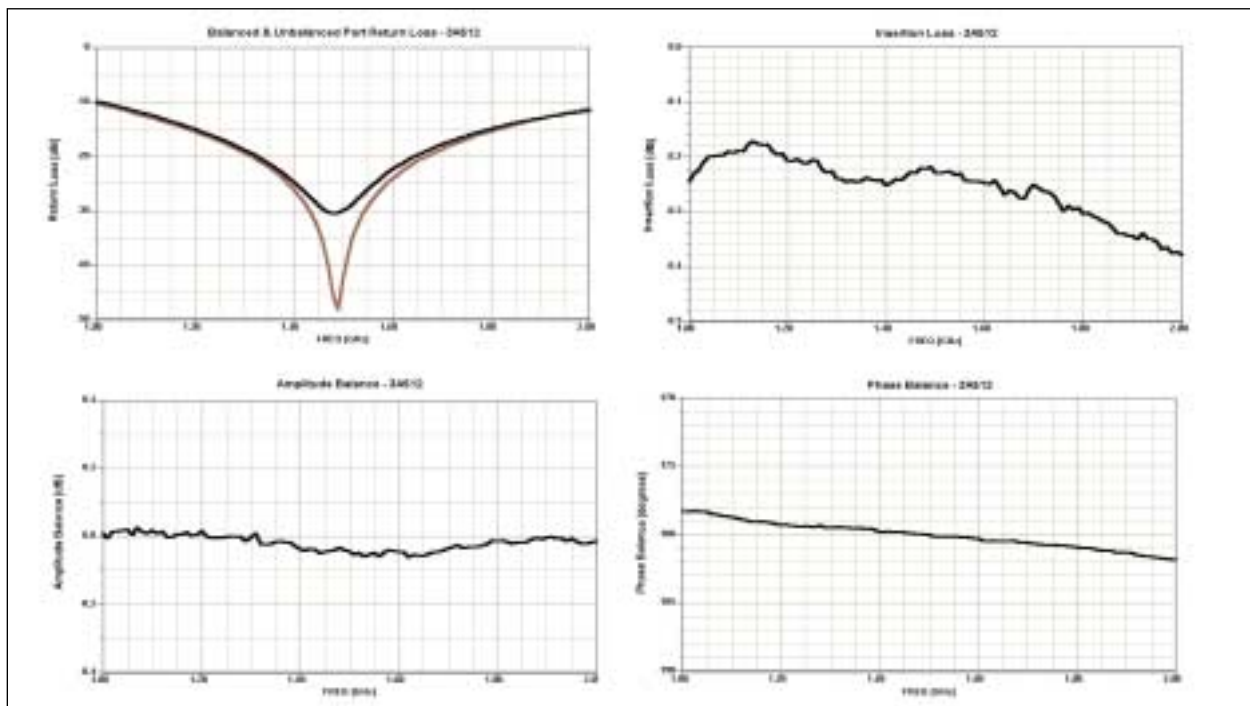
Sales Desk USA: Voice: (800) 544-2414 Fax: (315) 432-9121
 Sales Desk Europe: Voice: (+44) 23 92 232392 Fax: (+44) 23 92 251369

Model 3A512

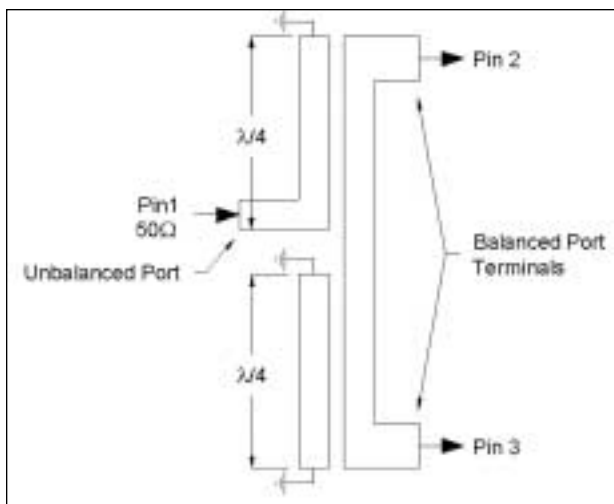
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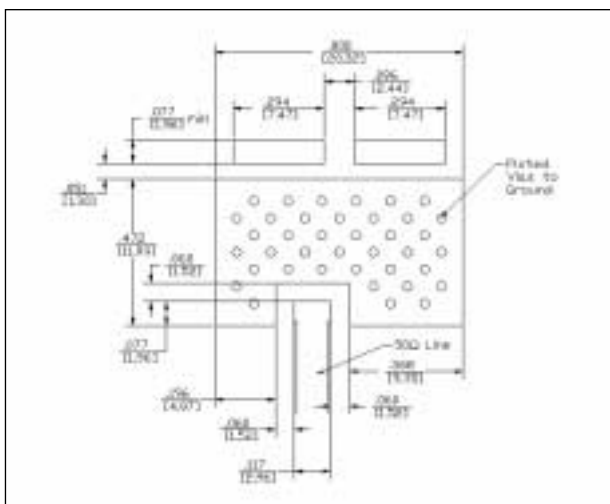
Typical Performance



Pin Configuration



Mounting Footprint



Available on Tape and Reel for Pick and Place Manufacturing.

