

Xinger®

Hybrid Couplers

3 dB, 90°

Description

The 2A1306-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package for DCS, PCS, UMTS, 3G and W-LAN applications. The 2A1306-3 is ideal for balanced amplifiers and signal distribution and can be used in very high power designs. Parts have been run through rigorous qualification and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates.



Features

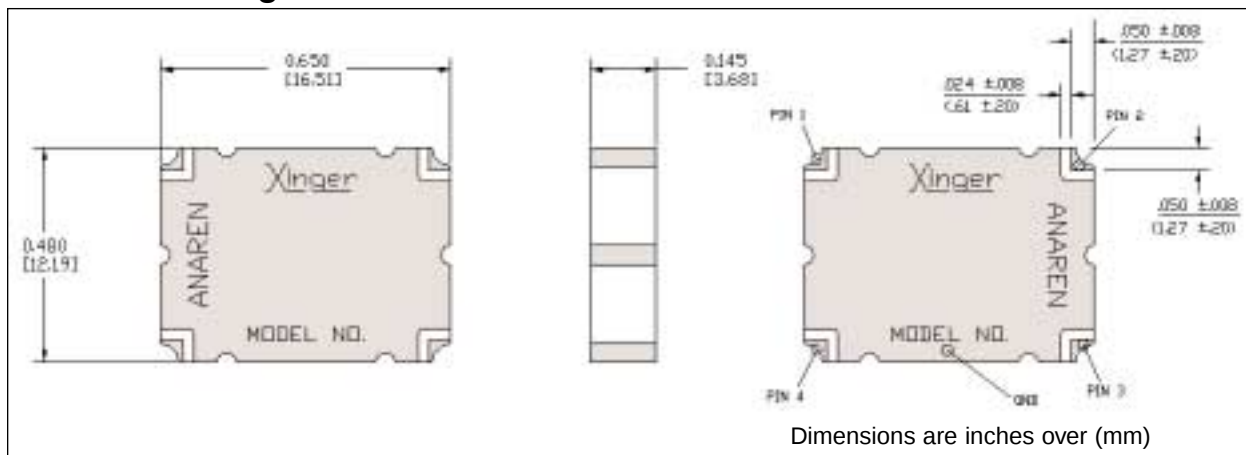
- 1.8 - 2.5 GHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Electrical Specifications

	Frequency GHz	Isolation dB Min	Insert. Loss dB Max	VSWR Max : 1
Narrow	1.9 - 2.2	23	0.20	1.20
Broad	1.8 - 2.5	20	0.23	1.30
	Amp. Bal. dB Max	Phase Bal. Degrees Max	Θ_{JC} (deg C/diss W)	Power Ave. CW Watts
Narrow	±0.20	2	26.0	100
Broad	±0.30	3		

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

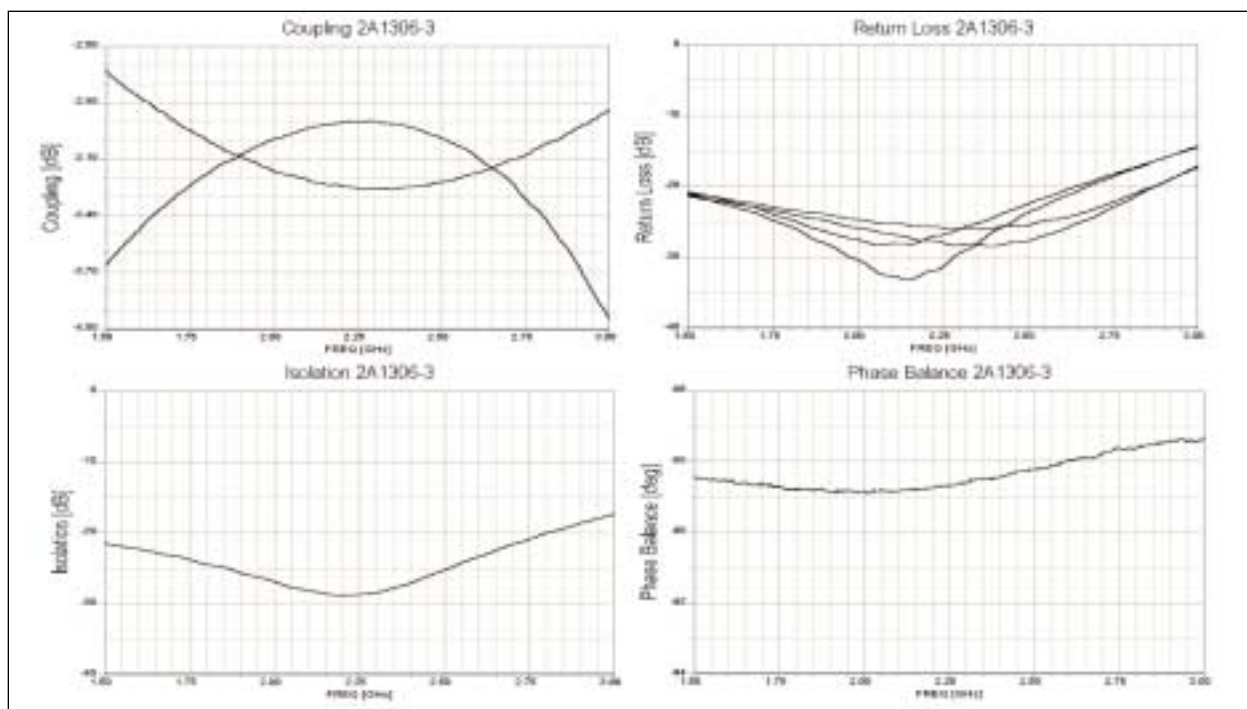
Model 2A1306-3

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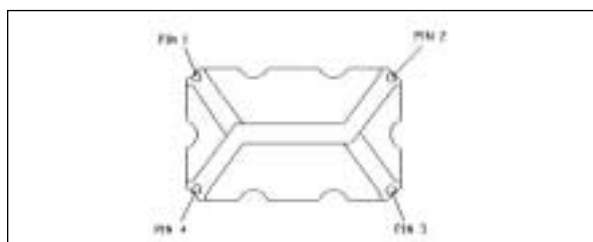
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Typical Performance

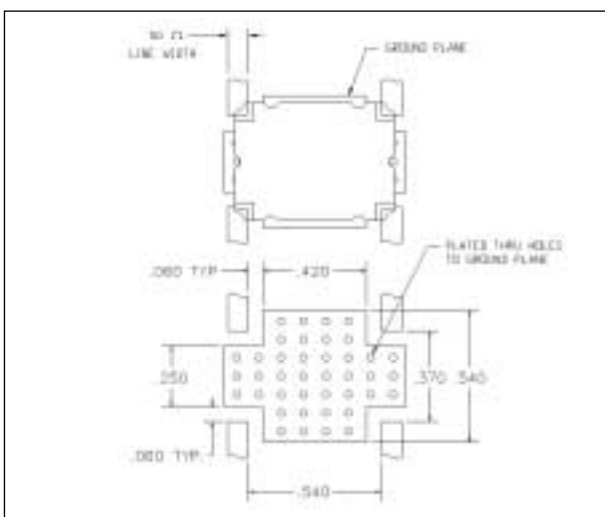


Pin Configuration



	Pin 1	Pin 2	Pin 3	Pin 4
#1	Input	Isolated	-3dB, -90°	-3dB, 0°
#2	Isolated	Input	-3dB, 0°	-3dB, -90°
#3	-3dB, -90°	-3dB, 0°	Input	Isolated
#4	-3dB, 0°	-3dB, -90°	Isolated	Input

Mounting Footprint



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