



## Hybrid Couplers

3 dB, 90°

### Description

The 1A1305-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package for DCS, PCS and UMTS applications. The 1A1305-3 is ideal for balanced amplifiers and signal distribution and can be used in most 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

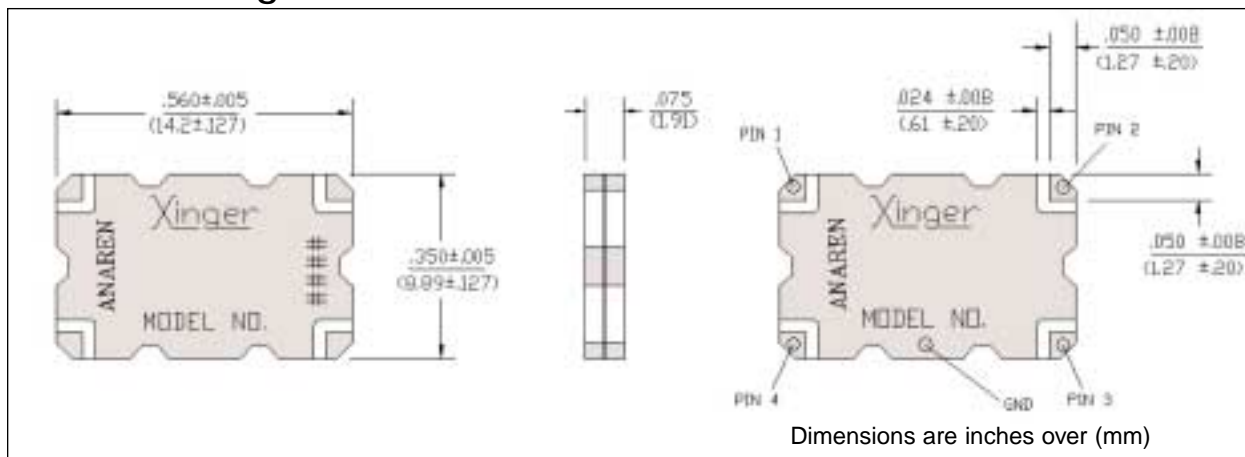
- 1.5 - 2.2 GHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

### Electrical Specifications

	Frequency GHz	Isolation dB Min	Insert. Loss dB Max	VSWR Max : 1
Narrow	1.7 - 2.0	23	0.23	1.18
Broad	1.5 - 2.2	20	0.25	1.20
	Amp. Bal. dB Max	Phase Bal. Degrees Max	$\Theta_{JC}$ (deg C/diss W)	Power Ave. CW Watts
Narrow	±0.30	3	14.6	100
Broad	±0.40			

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

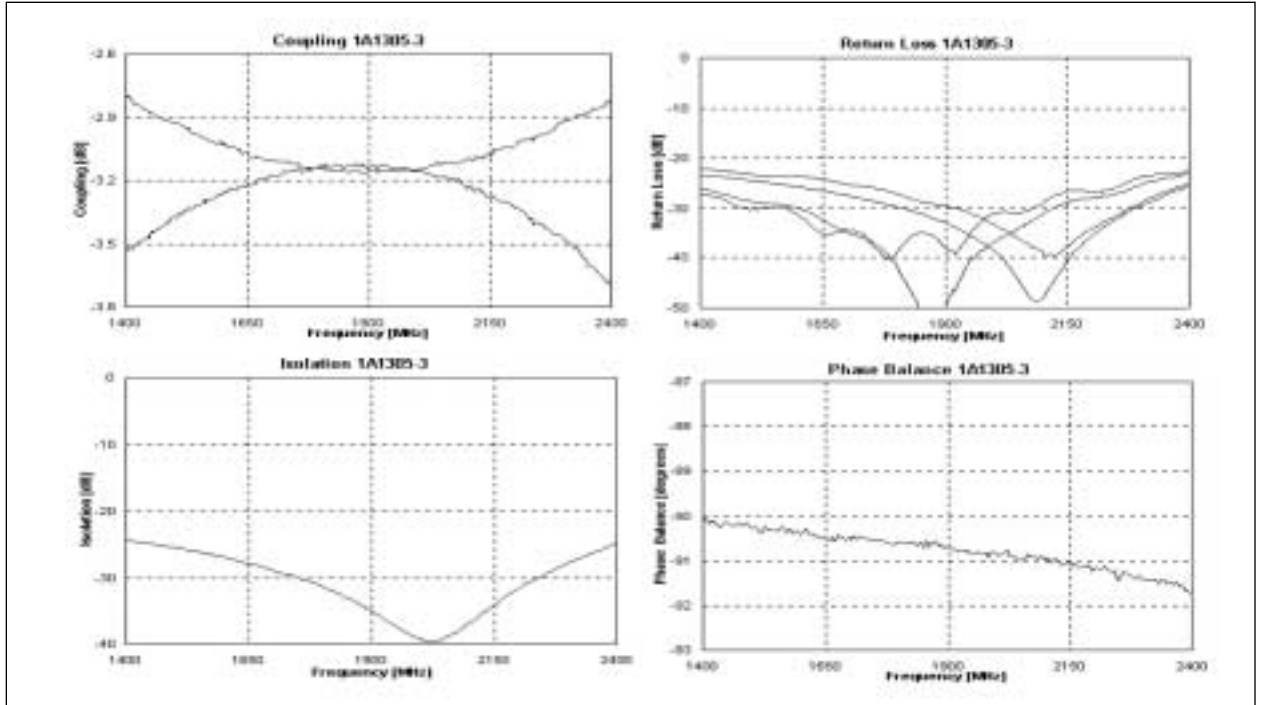
# Model 1A1305-3

# Anaren

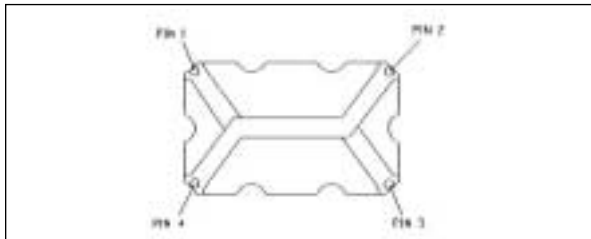
[www.anaren.com](http://www.anaren.com)

# Xinger®

## Typical Performance

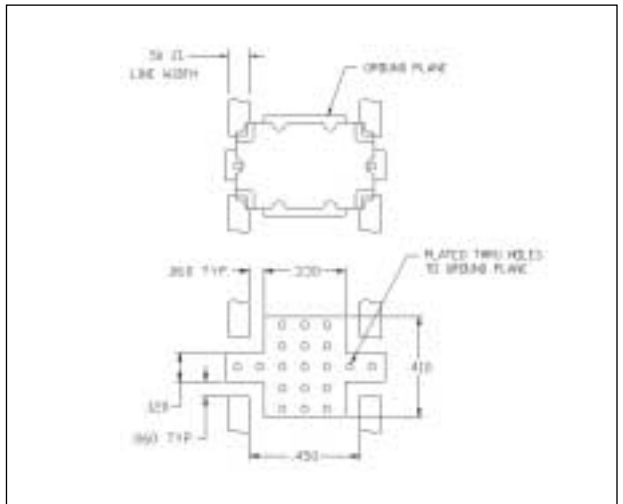


## Pin Configuration



	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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**Anaren**  
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