

# Xinger®

## Directional Couplers

5 dB

### Description

The 1A1305-5 is a low profile 5dB directional coupler in an easy to use surface mount package covering the PCS and DCS bands. The 1A1305-5 is ideal for 3 and 4 way inline split/combine amplifiers and for power injection and can be used in most high power designs. Parts have been run through rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates.



### Features

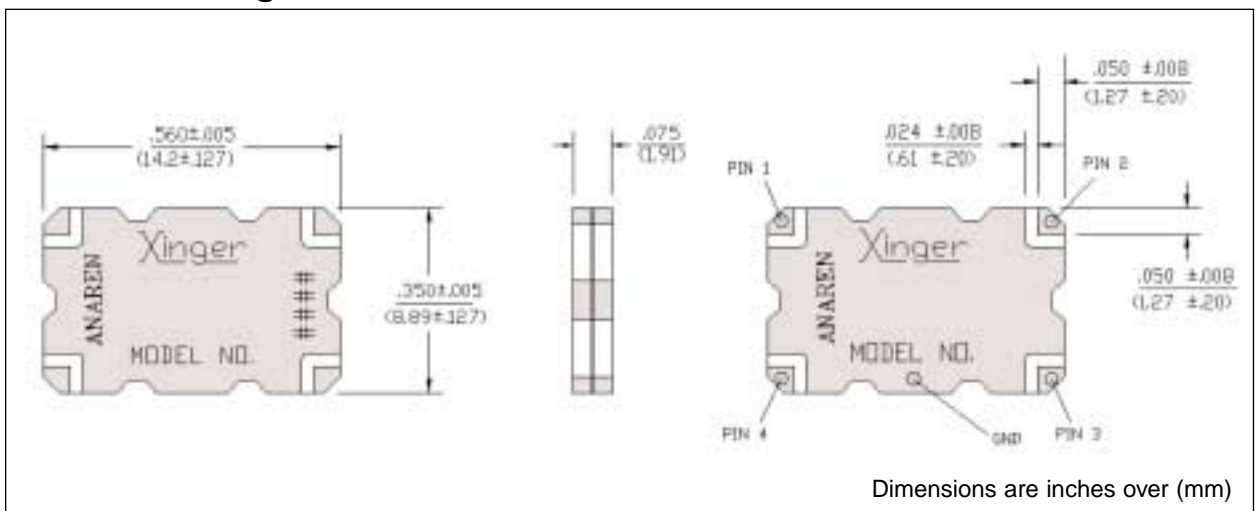
- 1.5 - 2.2 GHz
- Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

### Electrical Specifications

	Frequency GHz	Mean Coupling dB	Insert. Loss dB Max	VSWR Max : 1
Narrow	1.7 - 2.0	5.0 ± 0.4	0.25	1.20
Broad	1.5 - 2.2	5.1 ± 0.5		
	Freq. Sensitivity dB Max	Directivity dB Min	Θ <sub>JC</sub> (°C/diss. Watt)	Power Watts Ave/CW
Narrow	±0.20	16	16.5	100
Broad	±0.30	15		

Specifications subject to change without notice.

### Outline Drawing



Available on Tape and Reel for Pick and Place Manufacturing.

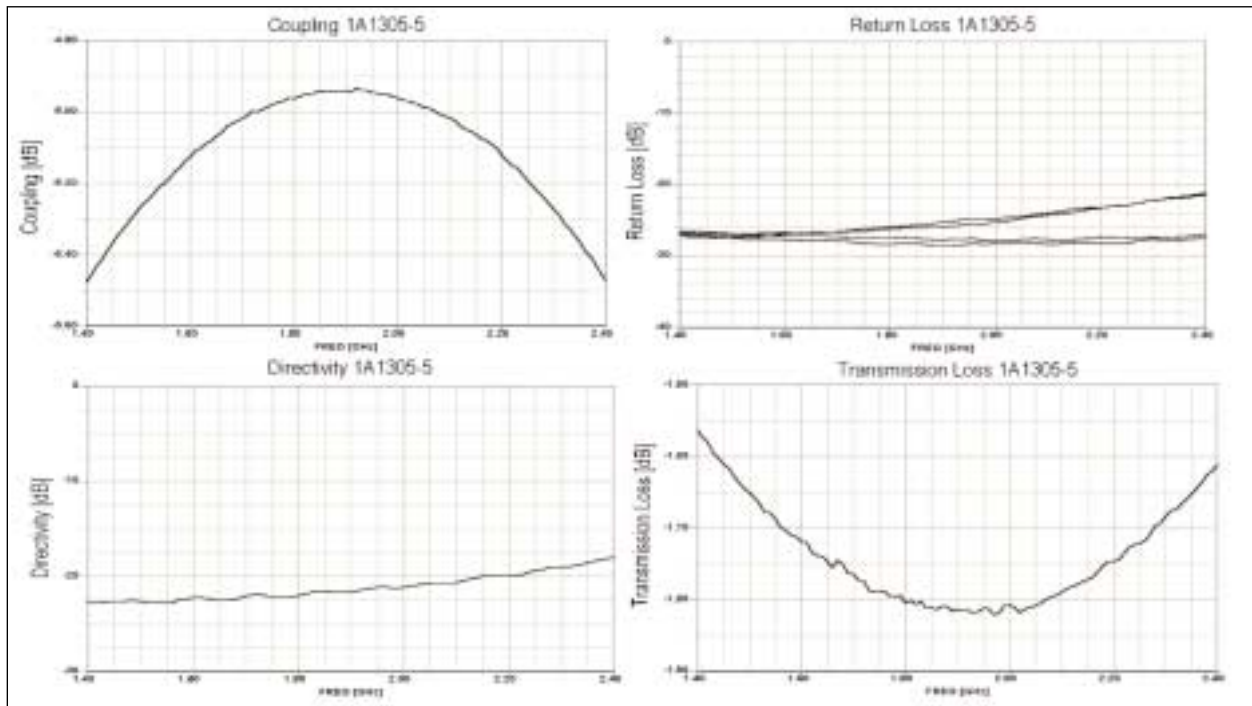
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# Model 1A1305-5

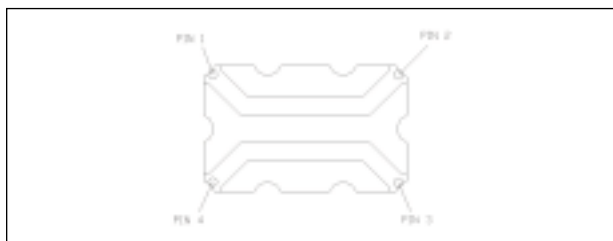
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## Typical Performance



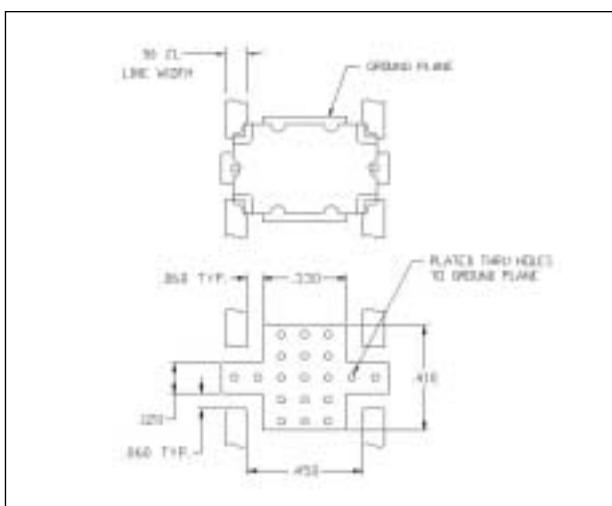
## Pin Configuration



	Pin 1	Pin 2	Pin 3	Pin 4
#1	Input	Output	Isolated	Coupled
#2	Output	Input	Coupled	Isolated
#3	Isolated	Coupled	Input	Output
#4	Coupled	Isolated	Output	Input

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## Mounting Footprint



Available on Tape and Reel for Pick and Place Manufacturing.

