

# Xinger®

## Directional Couplers

20 dB

### Description

The 1A1307-20 is a low profile 20dB directional coupler in an easy to use surface mount package covering 3.4 - 3.6 GHz. The 1A1307-20 is ideal for power and frequency detection as well as VSWR monitoring 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

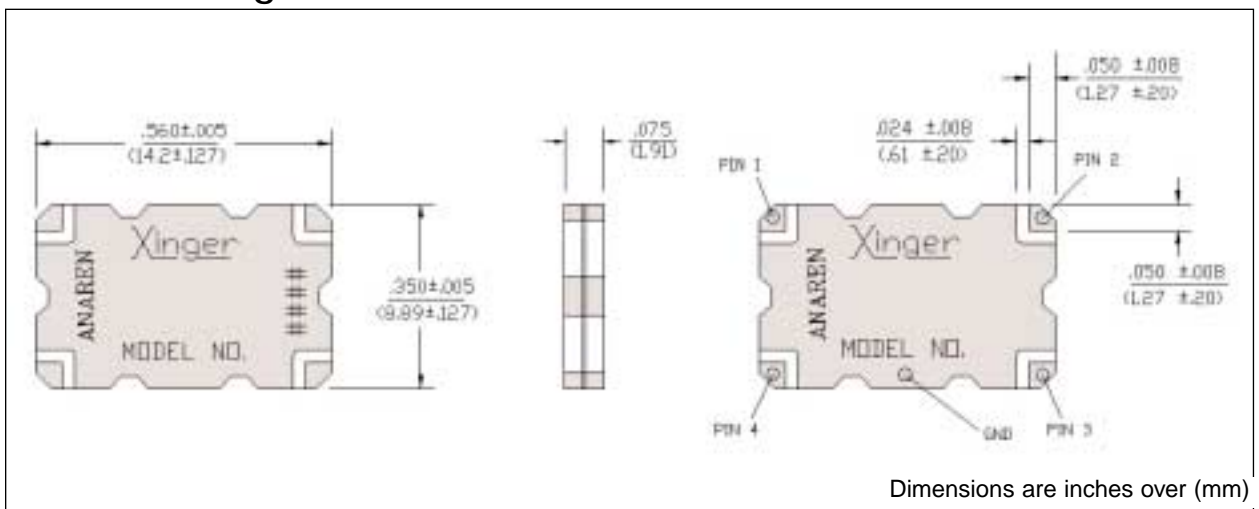
- 3.4 - 3.6 GHz
- Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

### Electrical Specifications

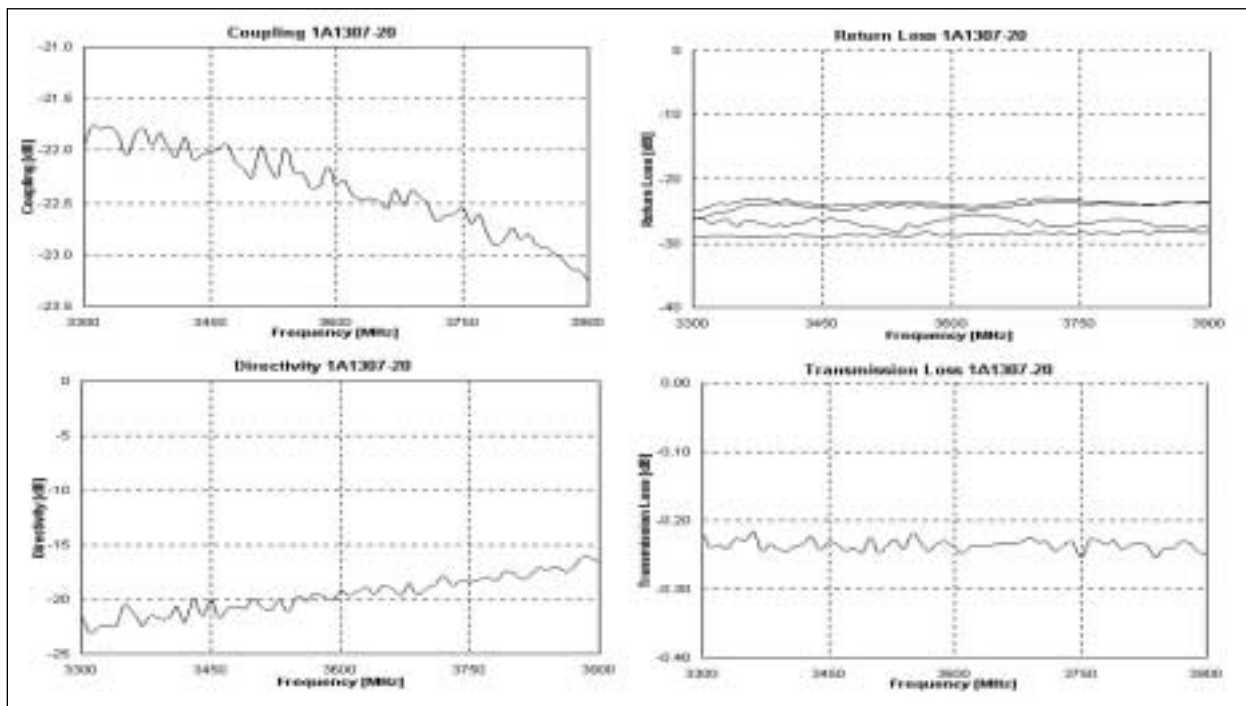
Frequency GHz	Mean Coupling dB	Insert. Loss dB Max	VSWR Max : 1
3.4 - 3.6	22.0 ± 2.0	0.30	1.40
Freq. Sens. dB Max	Directivity dB Min	Θ <sub>JC</sub> (°C/diss. Watt)	Power Watts Ave/CW
±0.20	17	28.5	60

Specifications subject to change without notice.

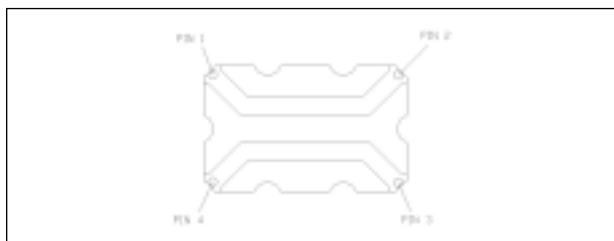
### Outline Drawing



## Typical Performance



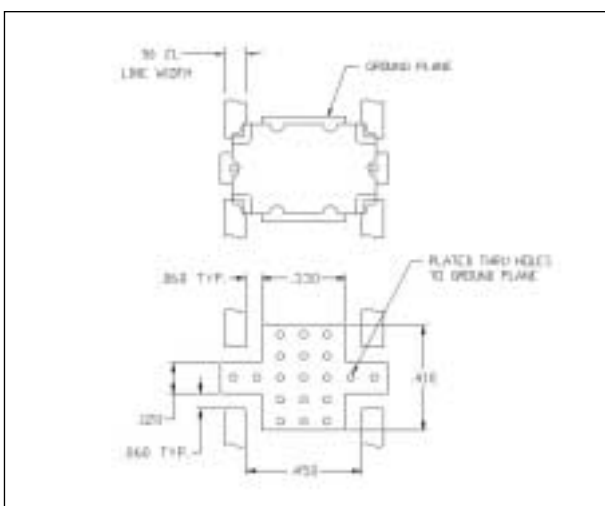
## Pin Configuration



	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.

