



## Directional Couplers

20 dB

### Description

The 1A1305-20 is a low profile 20dB directional coupler in an easy to use surface mount package covering the PCS and DCS bands. The 1A1305-20 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

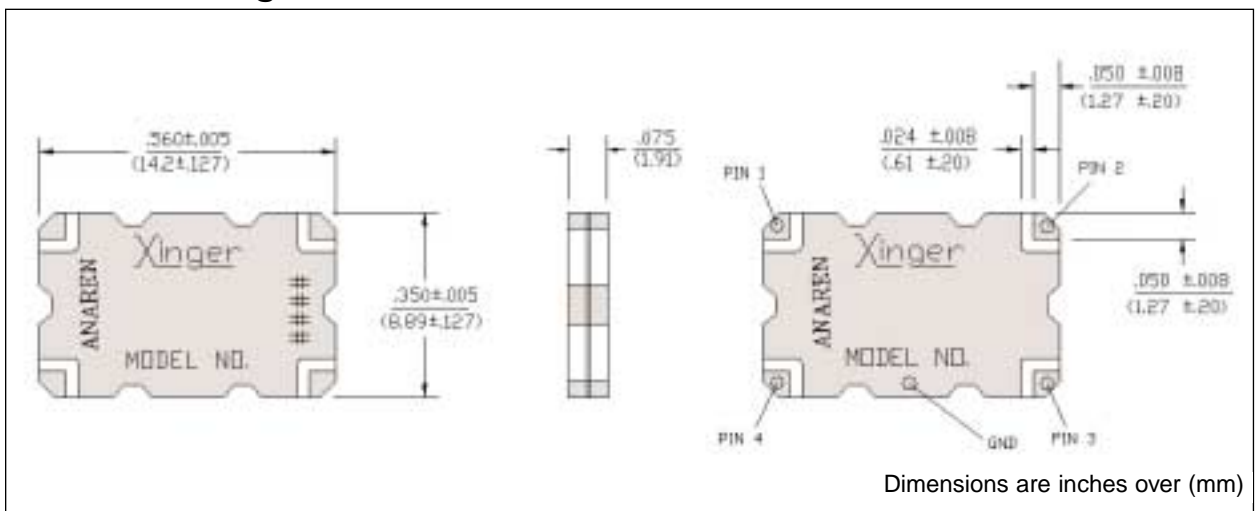
- 1.5 - 2.2 GHz
- Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

### Electrical Specifications

|        | Frequency<br>GHz            | Mean Coupling<br>dB   | Insert. Loss<br>dB Max             | VSWR<br>Max : 1       |
|--------|-----------------------------|-----------------------|------------------------------------|-----------------------|
| Narrow | 1.7 - 2.0                   | 20.0 ± 1.5            | 0.25                               | 1.20                  |
| Broad  | 1.5 - 2.2                   |                       |                                    |                       |
|        | Freq. Sensitivity<br>dB Max | Directivity<br>dB Min | Θ <sub>JC</sub><br>(°C/diss. Watt) | Power<br>Watts Ave/CW |
| Narrow | ±0.20                       | 20                    | 14.8                               | 100                   |
| Broad  | ±0.30                       |                       |                                    |                       |

Specifications subject to change without notice.

### Outline Drawing



Available on Tape and Reel for Pick and Place Manufacturing.

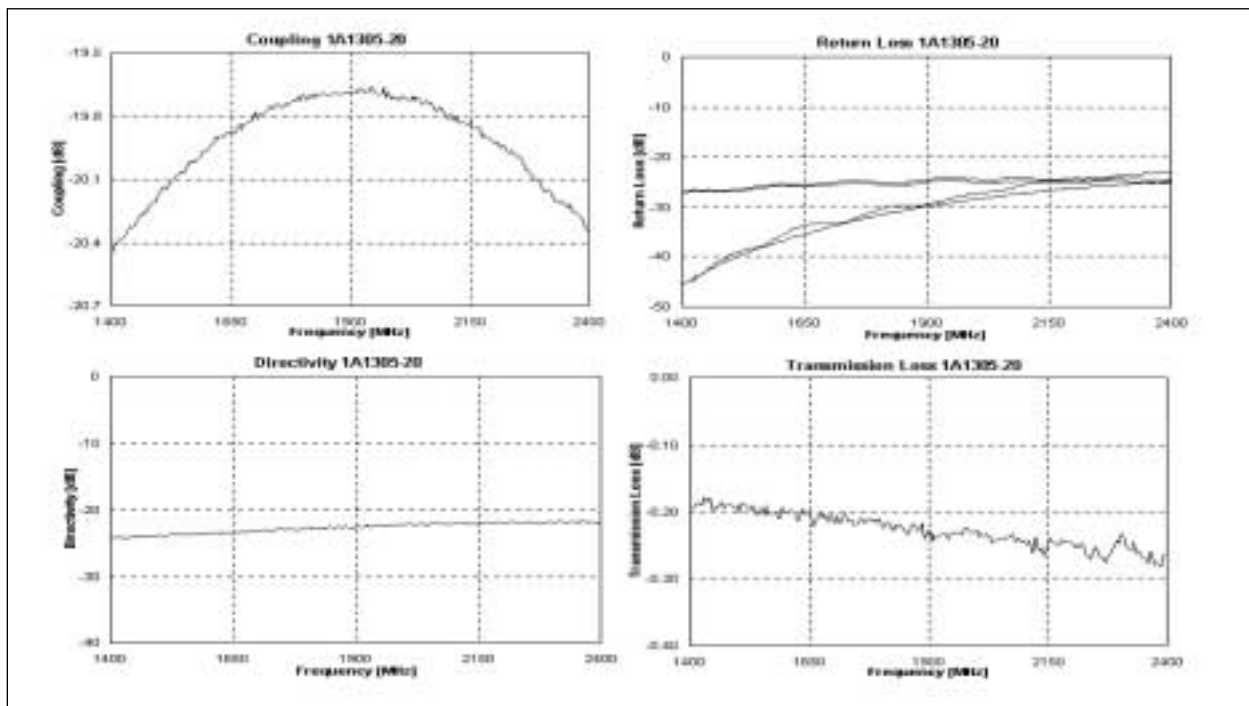
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# Model 1A1305-20

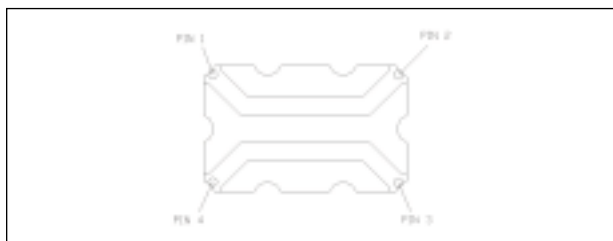
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## Typical Performance



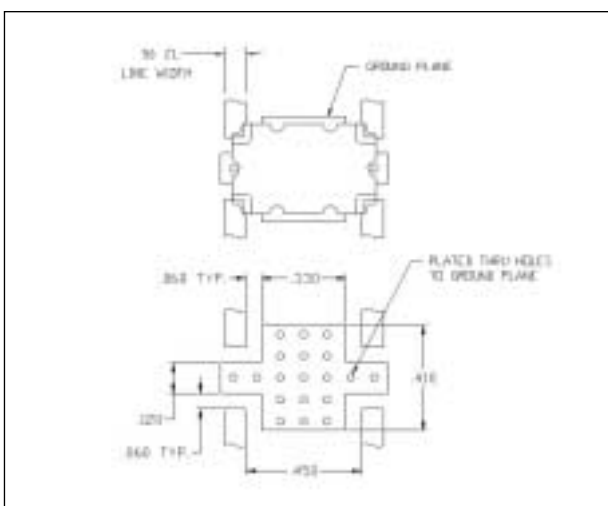
## Pin Configuration



|    | 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



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