

# Xinger®

## Directional Couplers

### 10 dB

### Description

The 11305-10 is a low profile 10dB directional coupler in an easy to use surface mount package covering 1.0 to 2.0 GHz. The 11305-10 is ideal for power and frequency detection as well as 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

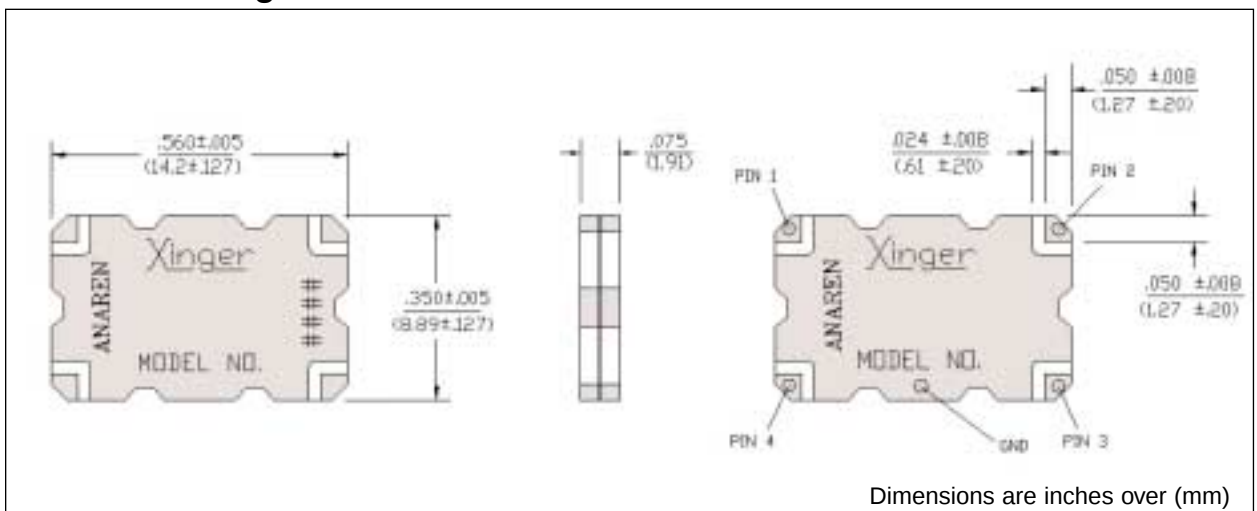
- 1.0 - 2.0 GHz
- Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

### Electrical Specifications

| Frequency<br>GHz      | Mean Coupling<br>dB   | Insert. Loss<br>dB Max             | VSWR<br>Max : 1       |
|-----------------------|-----------------------|------------------------------------|-----------------------|
| 1.0 - 2.0             | 10.0 ± 0.8            | 0.35                               | 1.20                  |
| Freq. Sens.<br>dB Max | Directivity<br>dB Min | Θ <sub>JC</sub><br>(°C/diss. Watt) | Power<br>Watts Ave/CW |
| ±0.80                 | 18                    | 12.3                               | 60                    |

Specifications subject to change without notice.

### Outline Drawing

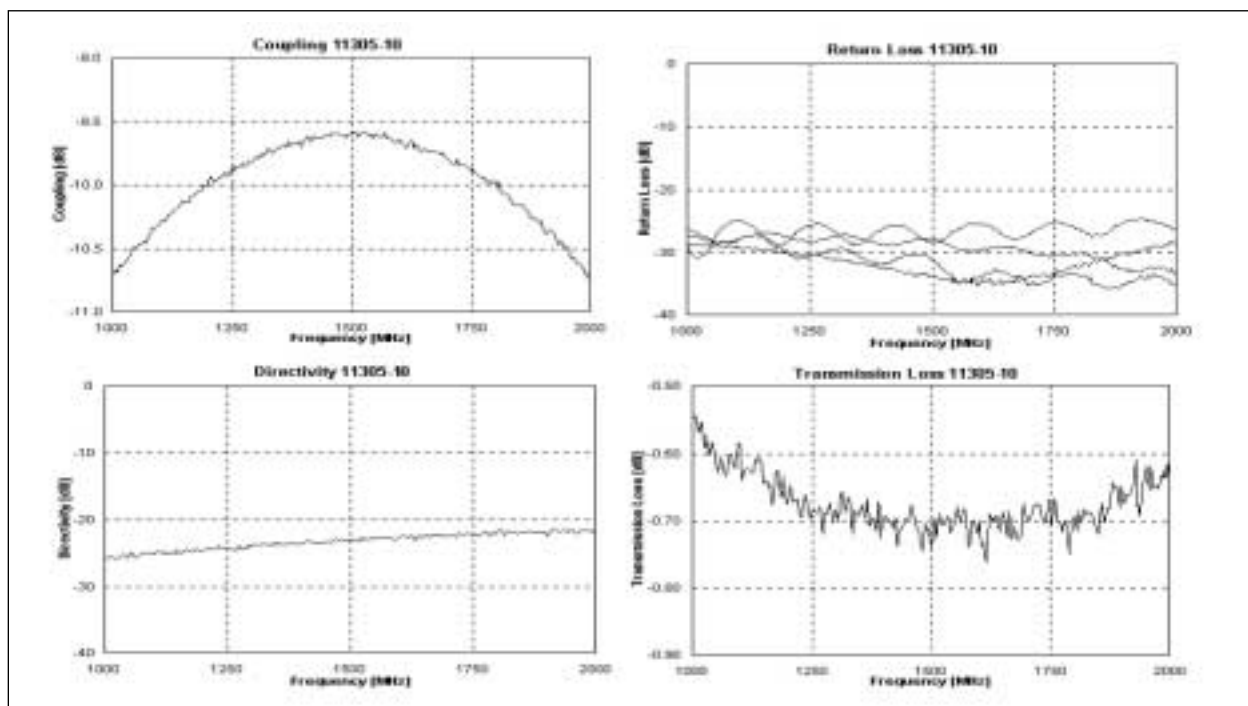


# Model 11305-10

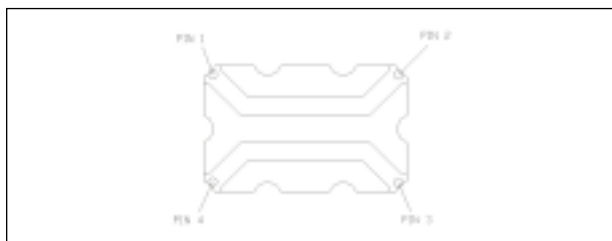
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## Typical Performance



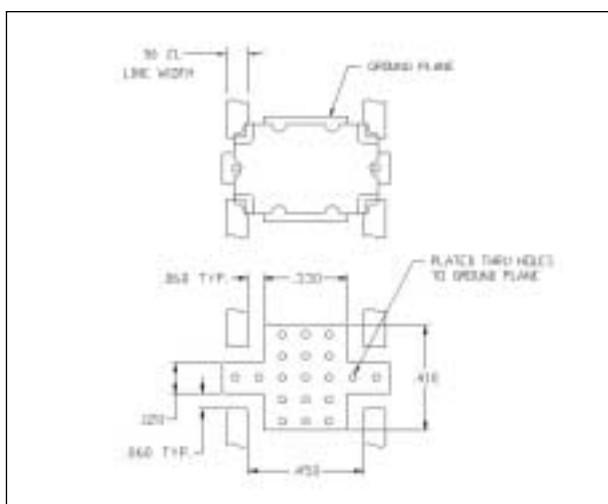
## Pin Configuration



|    | 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.

