

## **Directional Couplers** 10 dB

+44 2392-232392

Europe:



## Description

The 1A1307-10 is a low profile 10dB directional coupler in an easy to use surface mount package designed for the 3.4 to 3.6 GHz bandwidth. The 1A1307-10 is ideal for power and frequency detection as well as power injection and can be used in most high power designs. They have been subjected to rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10 and polyamide.

## FLECTRICAL SPECIFICATIONS\*\*

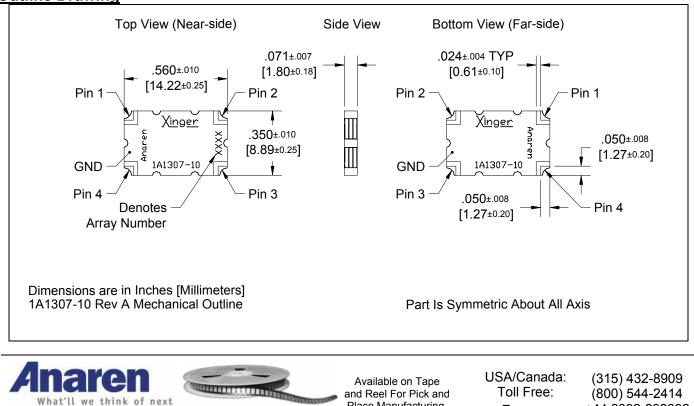
| <u>atures:</u><br>3.4 – 3.6 GHz       | Frequency   | Mean<br>Coupling  | Insertion<br>Loss | VSWR               | Freq.<br>Sensitivity |
|---------------------------------------|-------------|-------------------|-------------------|--------------------|----------------------|
| Low loss                              | GHz         | dB                | dB Max            | Max:1              | dB Max               |
| High Directivity<br>Surface Mountable | 3.4 – 3.6   | 10.0 ± 1.0        | 0.30              | 1.40               | ±0.20                |
| Tape And Reel<br>Convenient Package   | Directivity | Power<br>Handling | ΘJC               | Operating<br>Temp. |                      |
| 100% Tested                           | dB Min      | Watts             | °C / Watt         | °C                 |                      |
|                                       | 20          | 60                | 24.3              | -55 to +85         |                      |

\*\*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50  $\Omega$  nominal impedance. Specifications subject to change without notice.

## **Outline Drawing**

Features:

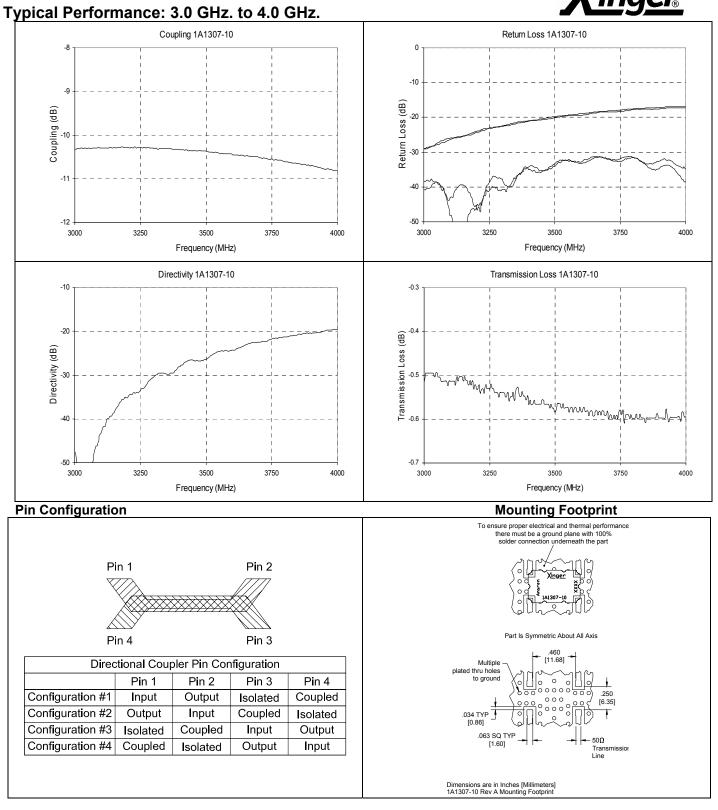
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Place Manufacturing.



Xinger.



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