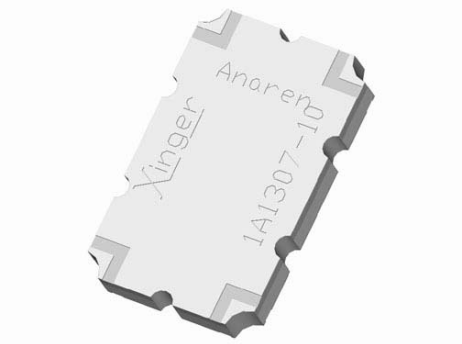
Model 1A1307-10

Rev. A

Directional Couplers
10 dB



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.

Features:

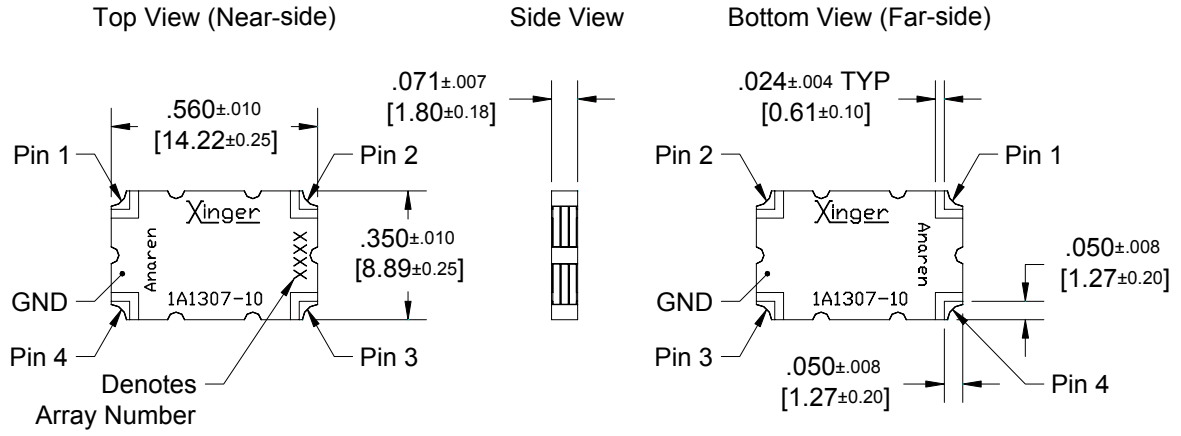
- **3.4 – 3.6 GHz**
- **Low loss**
- **High Directivity**
- **Surface Mountable**
- **Tape And Reel**
- **Convenient Package**
- **100% Tested**

ELECTRICAL SPECIFICATIONS**

Frequency	Mean Coupling	Insertion Loss	VSWR	Freq. Sensitivity
GHz	*dB*	*dB Max*	*Max:1*	*dB Max*
3.4 – 3.6	10.0 ± 1.0	0.30	1.40	±0.20
Directivity	**Power Handling**	**ΘJC**	**Operating Temp.**	
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 Ω nominal impedance. Specifications subject to change without notice.

Outline Drawing



Dimensions are in Inches [Millimeters]
1A1307-10 Rev A Mechanical Outline

Part Is Symmetric About All Axis



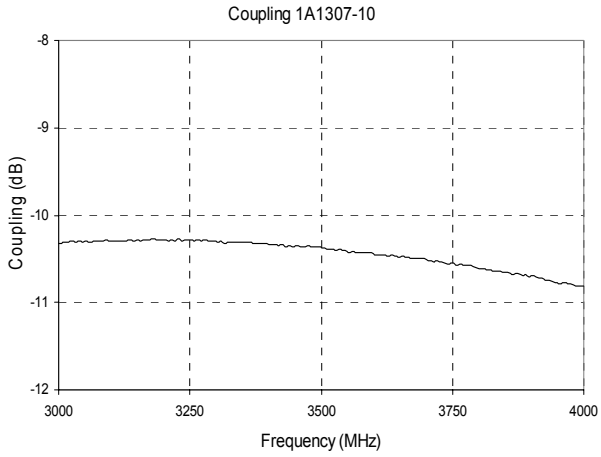
Available on Tape and Reel For Pick and Place Manufacturing.

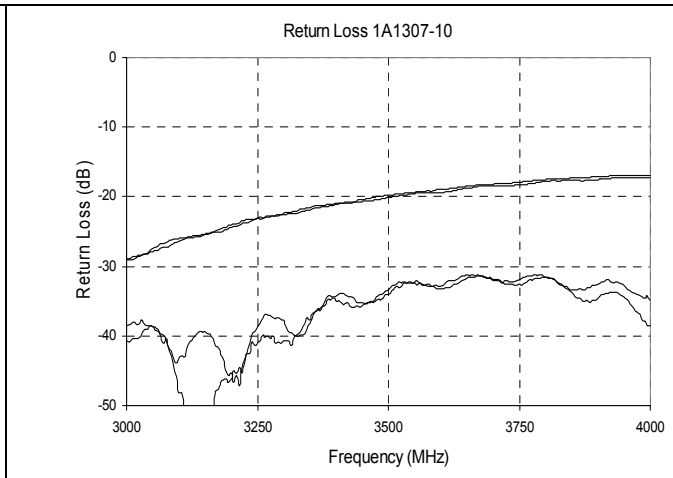
USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

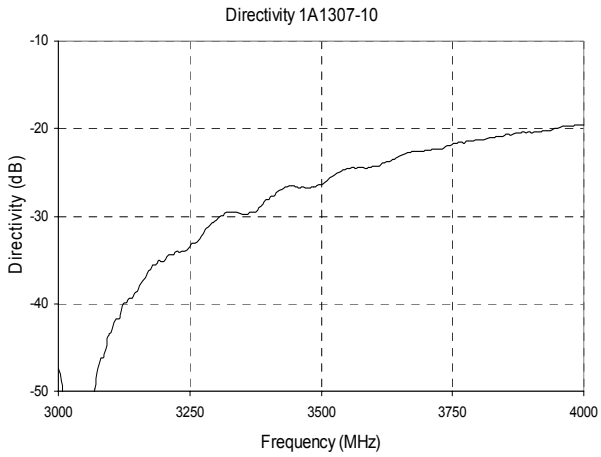
Model 1A1307-10

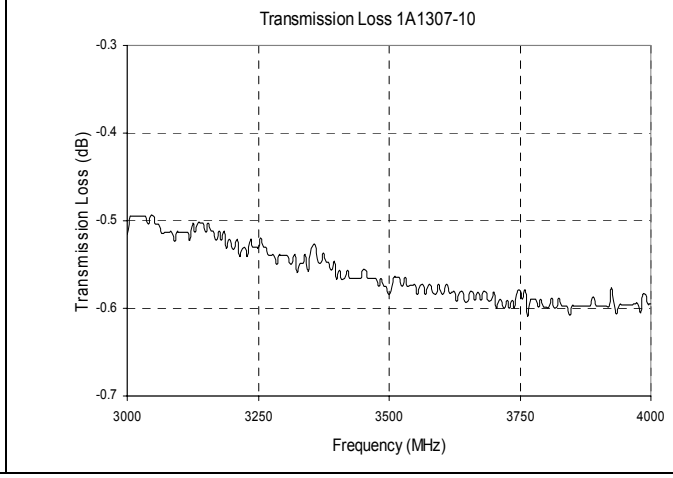
Rev. A

Typical Performance: 3.0 GHz. to 4.0 GHz.

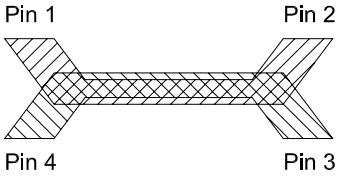






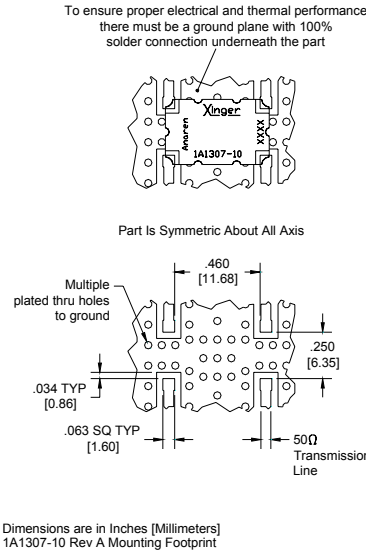


Pin Configuration



Directional Coupler Pin Configuration				
	Pin 1	Pin 2	Pin 3	Pin 4
Configuration #1	Input	Output	Isolated	Coupled
Configuration #2	Output	Input	Coupled	Isolated
Configuration #3	Isolated	Coupled	Input	Output
Configuration #4	Coupled	Isolated	Output	Input

Mounting Footprint



Dimensions are in Inches [Millimeters]
1A1307-10 Rev A Mounting Footprint

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Toll Free: (800) 544-2414
Europe: +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.



Anaren
What'll we think of nex