











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:

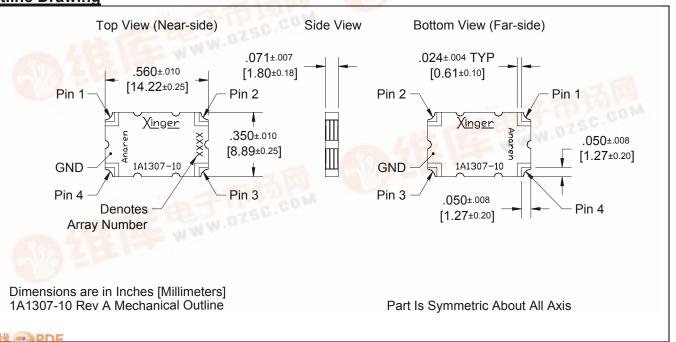
- 3.4 3.6 GHz
- Low loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

ELECTRICAL SPECIFICATIONS**

	ELECTRICAL OF LONG								
	Frequency	Mean Coupling	Insertion Loss	VSWR	Freq. Sensitivity				
i	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.					
	Directivity dB Min		⊚JC °C / Watt	-					
	•	Handling		Temp.					

^{**}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





Available on Tape

Description of the Available on Tape

Available on Tape

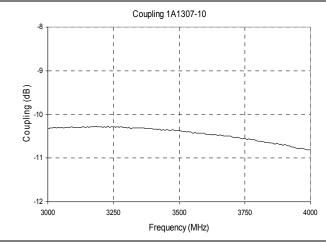
Toll Free:

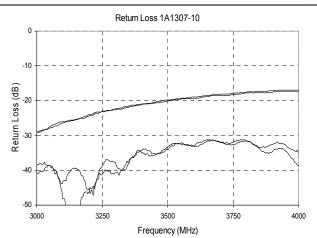
(315) 432-8909 (800) 544-2414

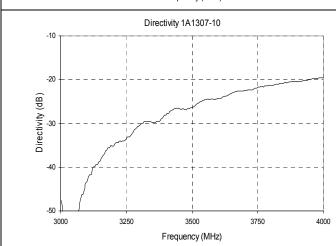


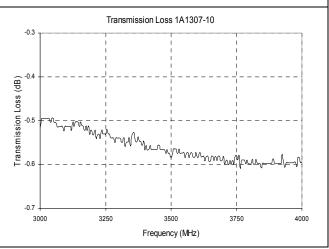


Typical Performance: 3.0 GHz. to 4.0 GHz.

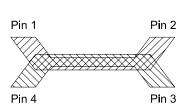






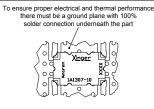


Pin Configuration

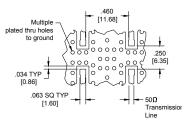


Direc	Directional Coupler Pin Configuration					
	Pin 1	Pin 2	Pin 3	Pin 4		
Configuration #1	Input	Output	Isolated	Coupled		
Configuration #2	Output	Input	Coupled	Isolated		
Configuration #3	Isolated	Coupled	Input	Output		
Configuration #4	Coupled	Isolated	Output	Input		

Mounting Footprint



Part Is Symmetric About All Axis



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

USA/Canada: Toll Free:

(315) 432-8909 (800) 544-2414

Available on Tape and Reel For Pick and Place

