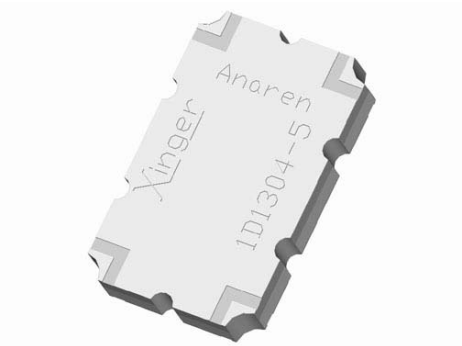
Directional Couplers
5 dB



Description

The 1D1304-5 is a low profile 5dB directional coupler in an easy to use surface mount package covering the AMPS and GSM bands. The 1D1304-5 is ideal for 3 way inline split/combine[1] amplifiers and for power injection and can be used in most high power designs. Parts 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:

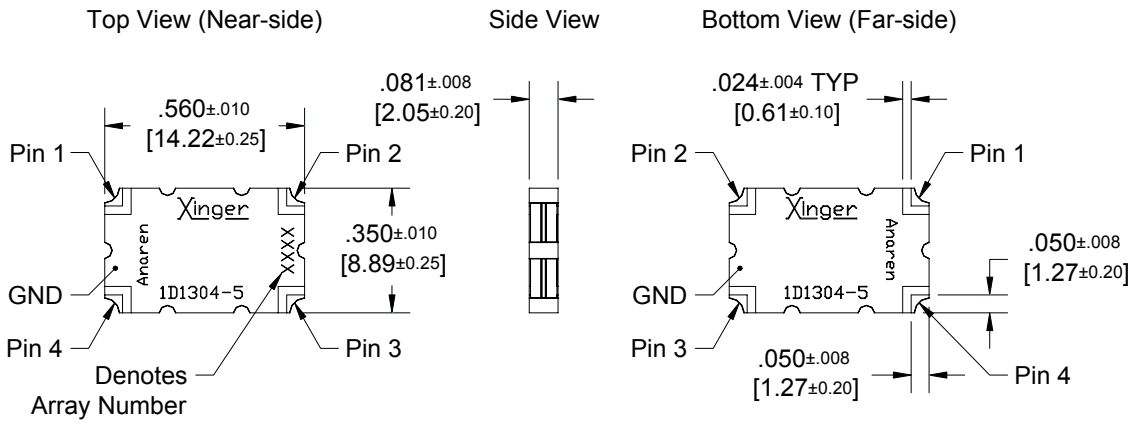
- **800 – 1200 MHz**
- **Low loss**
- **High Directivity**
- **Surface Mountable**
- **Tape And Reel**
- **Convenient Package**
- **100% Tested**

ELECTRICAL SPECIFICATIONS**

Frequency	Mean Coupling	Insertion Loss	VSWR	Freq. Sensitivity
MHz	*dB*	*dB Max*	*Max:1*	*dB Max*
815 - 960	4.8 ± 1.0	0.25	1.17	±0.40
800 - 1200	4.8 ± 1.0	0.25	1.17	±0.60
Directivity	**Power Handling**	**ΘJC**	**Operating Temp.**	
dB Min	*Watts*	*°C / Watt*	*°C*	
18	150	11.6	-55 to +85	
17	150	11.6	-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]
1D1304-5 Rev A Mechanical Outline

Part Is Symmetric About All Axis

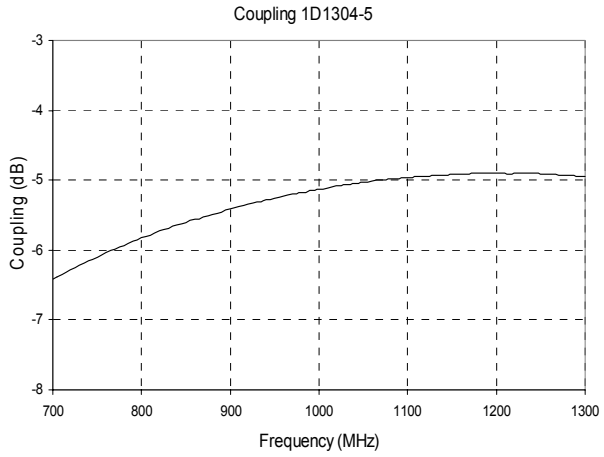
Available on Tape and Reel For Pick and Place Manufacturing.

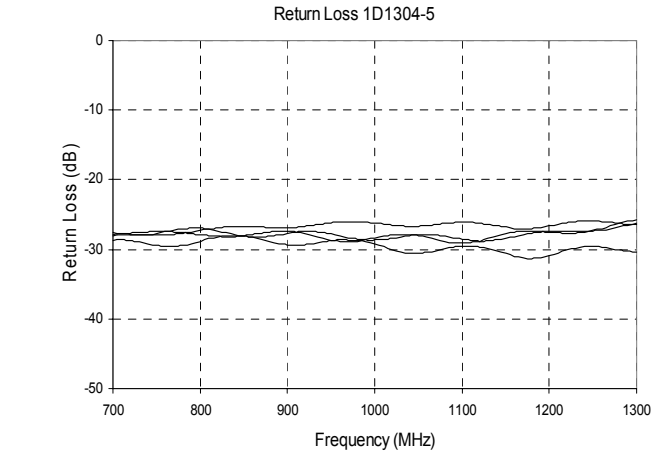
USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

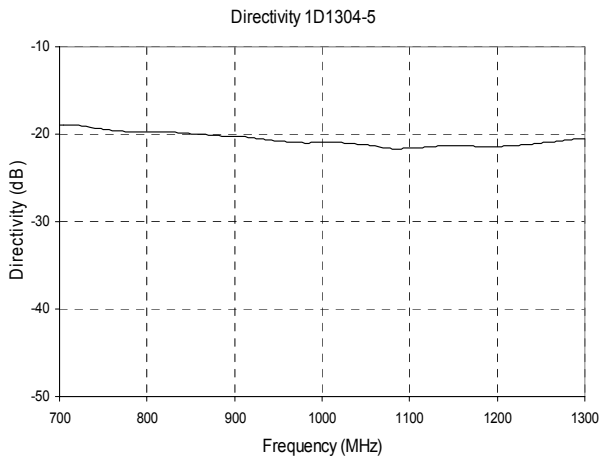
Model 1D1304-5

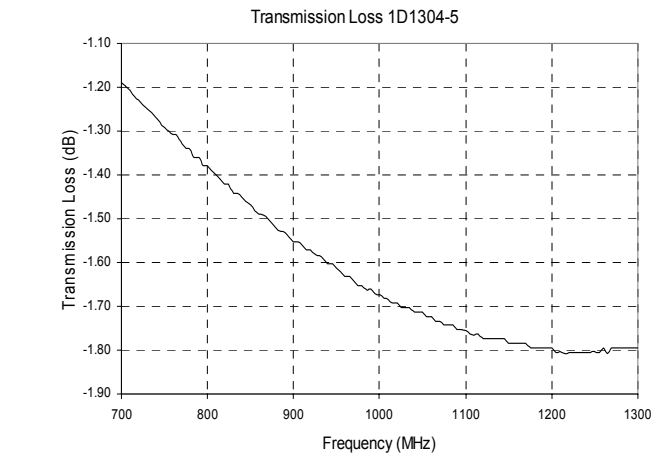
Rev. A

Typical Performance: 700 MHz. to 1300 MHz.

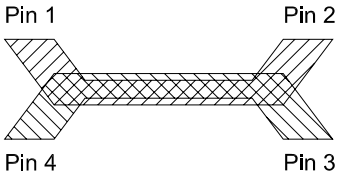






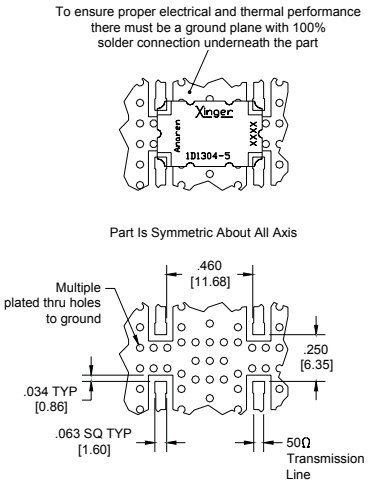


Pin Configuration



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]
1D1304-5 Rev A Mounting Footprint

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What'll we think of nex