



Directional Couplers

10 dB

Description

The 1A1305-10 is a low profile 10dB directional coupler in an easy to use surface mount package covering the PCS and DCS bands. The 1A1305-10 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

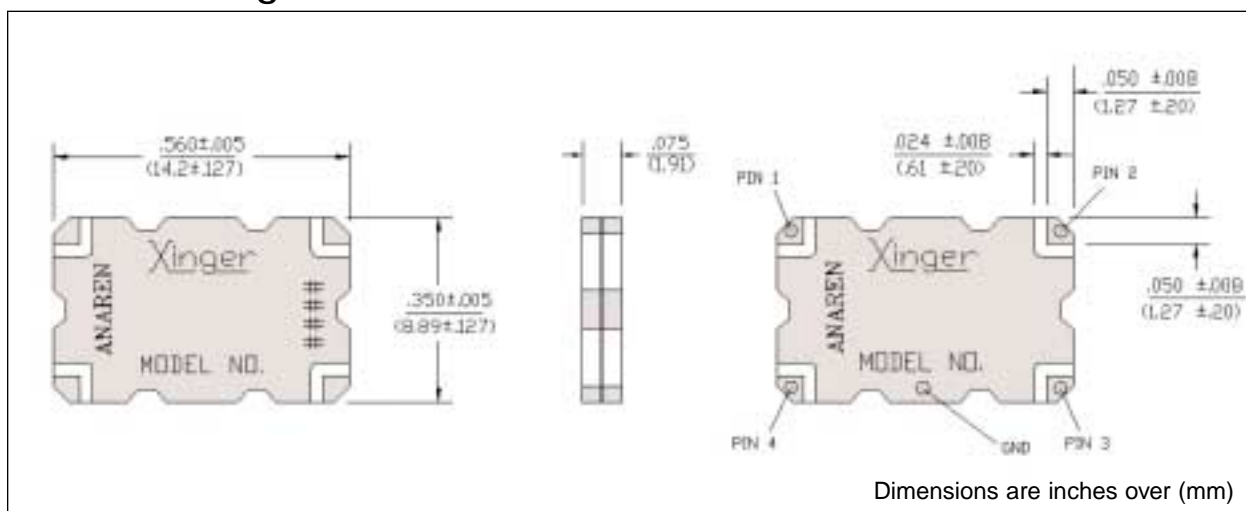
- 1.5 - 2.2 GHz
- Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Electrical Specifications

	Frequency GHz	Mean Coupling dB	Insert. Loss dB Max	VSWR Max : 1
Narrow	1.7 - 2.0	10.5 ± 1.5	0.25	1.18
Broad	1.5 - 2.2			
	Freq. Sensitivity dB Max	Directivity dB Min	Θ_{JC} (°C/diss. Watt)	Power Watts Ave/CW
Narrow	±0.20	20	12.8	100
Broad	±0.30			

Specifications subject to change without notice.

Outline Drawing



Available on Tape and Reel for Pick and Place Manufacturing.

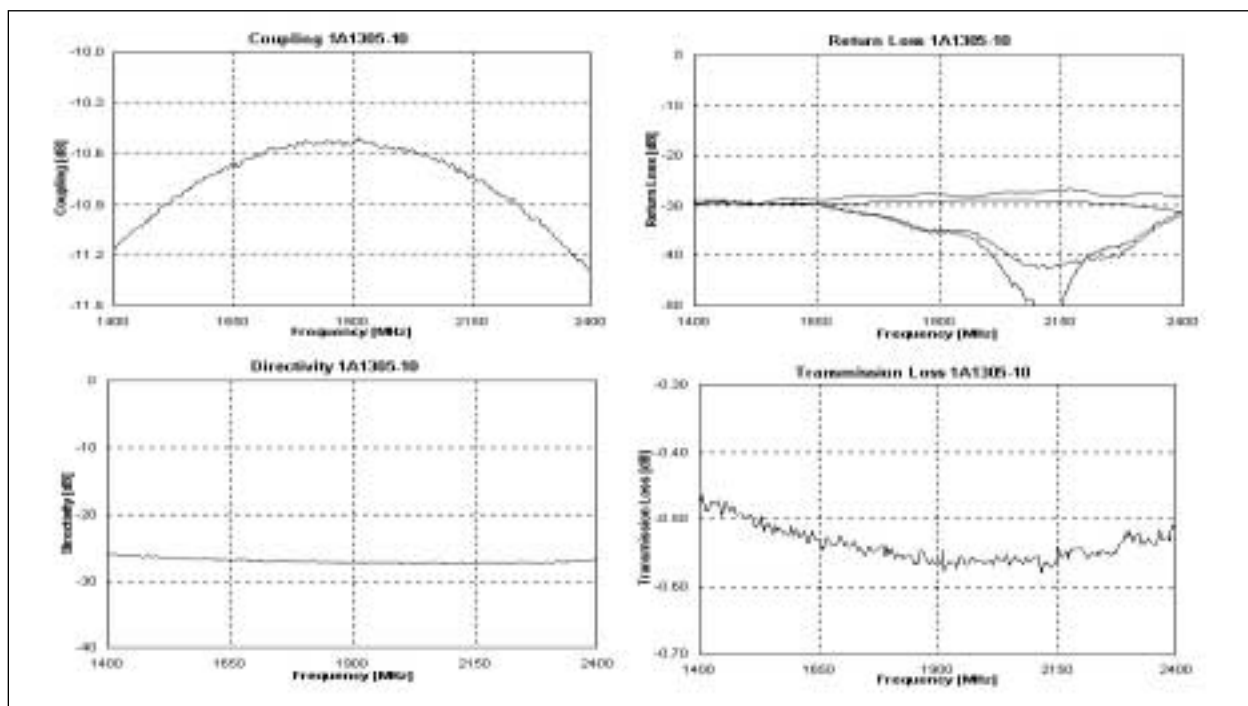
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Model 1A1305-10

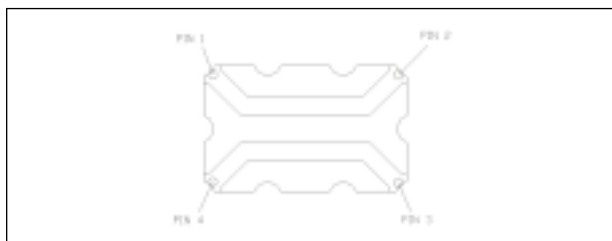
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Typical Performance



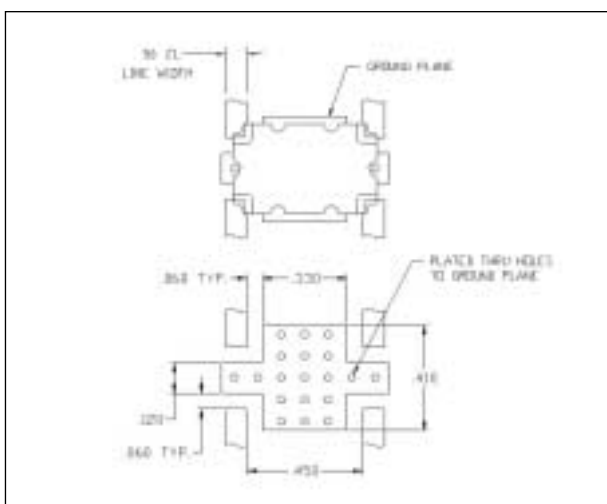
Pin Configuration



	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



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What'll we think of next?™

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