



Directional Couplers

20 dB

Description

The 1W1304-20 is a low profile 20dB directional coupler in an easy to use surface mount package covering GSM and AMPS band applications. The 1W1304-20 has larger RF pads and spacing between ground for improved peak power capabilities and reliability in volume manufacturing 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 α and β thermal expansion coefficients compatible with common substrates.



Features

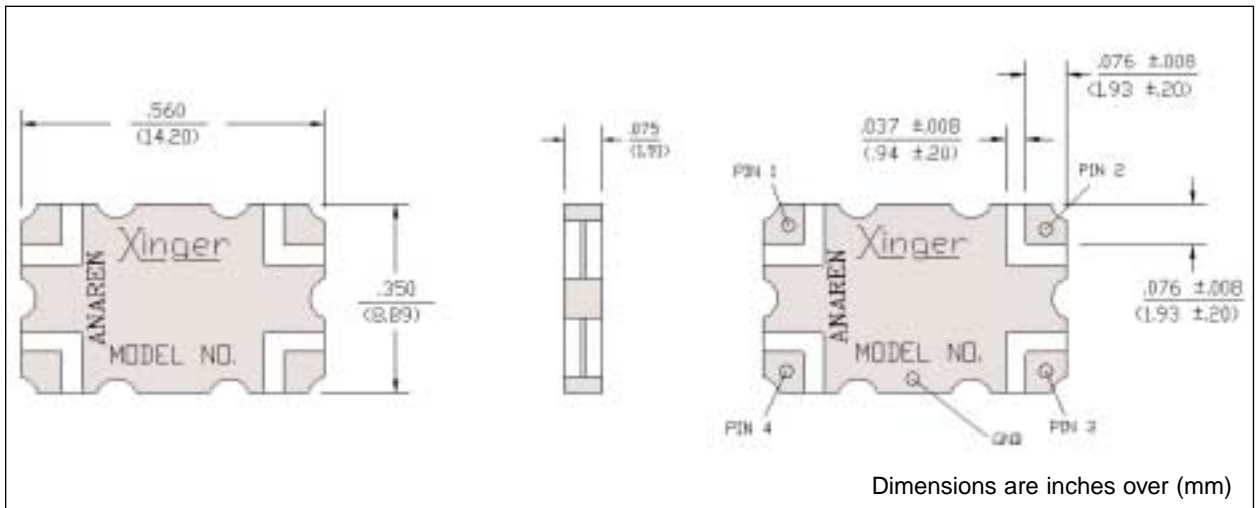
- 800 - 1000 MHz
- Low Loss
- High Directivity
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Electrical Specifications

	Frequency MHz	Mean Coupling dB	Insert. Loss dB Max	VSWR Max : 1
Narrow	869 - 894	20.5 ± 1.0	0.25	1.15
Narrow	925 - 960	20.5 ± 1.0	0.25	1.15
Broad	800 - 1000	20.5 ± 1.5	0.25	1.15
	Freq. Sensitivity dB Max	Directivity dB Min	Θ_{JC}	Power Watts Ave/CW
Narrow	±0.075	23		
Narrow	±0.075	23	9.9	150
Broad	±0.60	23		

Specifications subject to change without notice.

Outline Drawing



Available on Tape and Reel for Pick and Place Manufacturing.

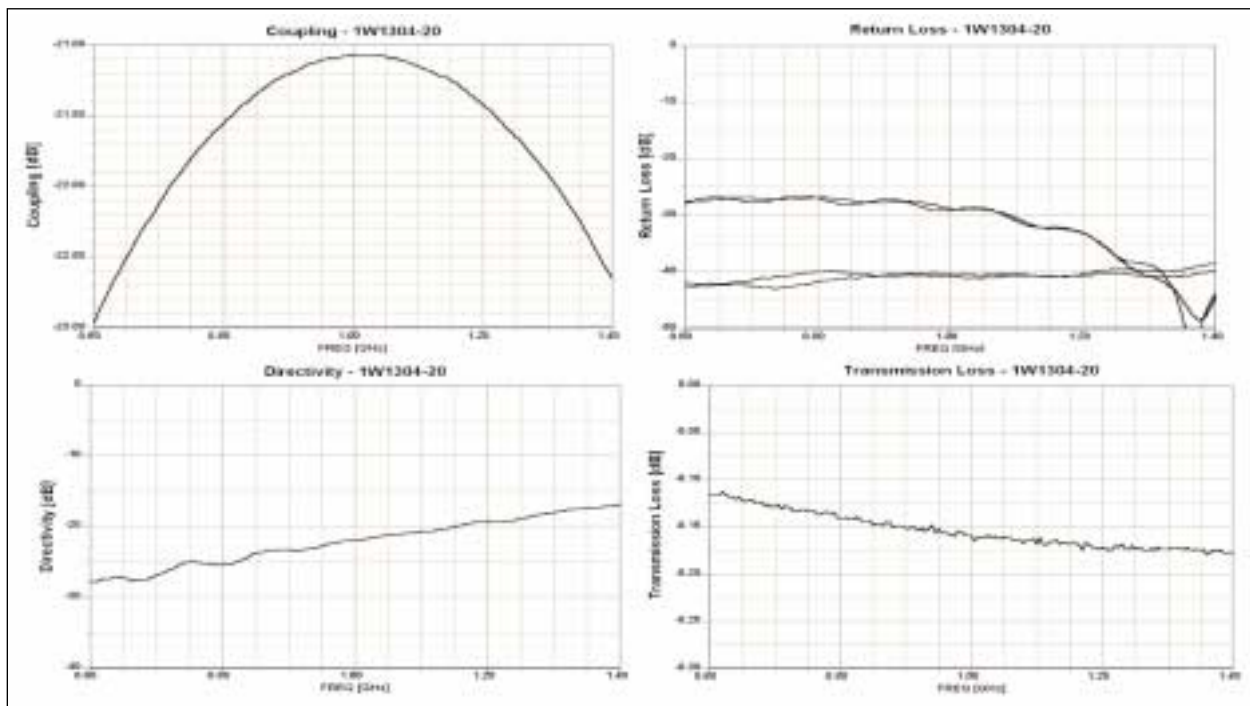
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Model 1W1304-20

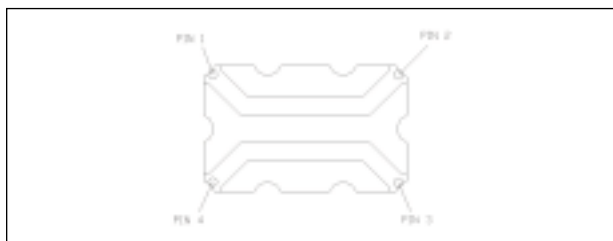
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Typical Performance



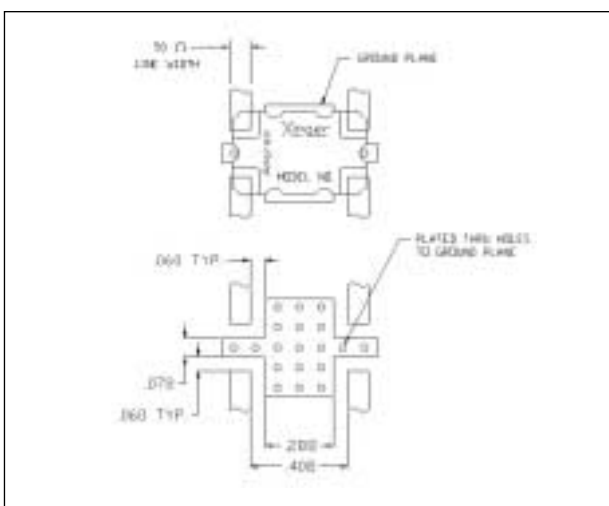
Pin Configuration



	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



Available on Tape and Reel for Pick and Place Manufacturing.

