



Hybrid Couplers

3 dB, 90°

Description

The 1D1304-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package for AMPS, GSM, IDEN and EDGE applications. The 1D1304-3 is ideal for balanced amplifiers and signal distribution and is an ideal solution for the ever increasing demands of the wireless industry for smaller printed circuit boards. Parts have been run through rigorous qualification and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates.



Features

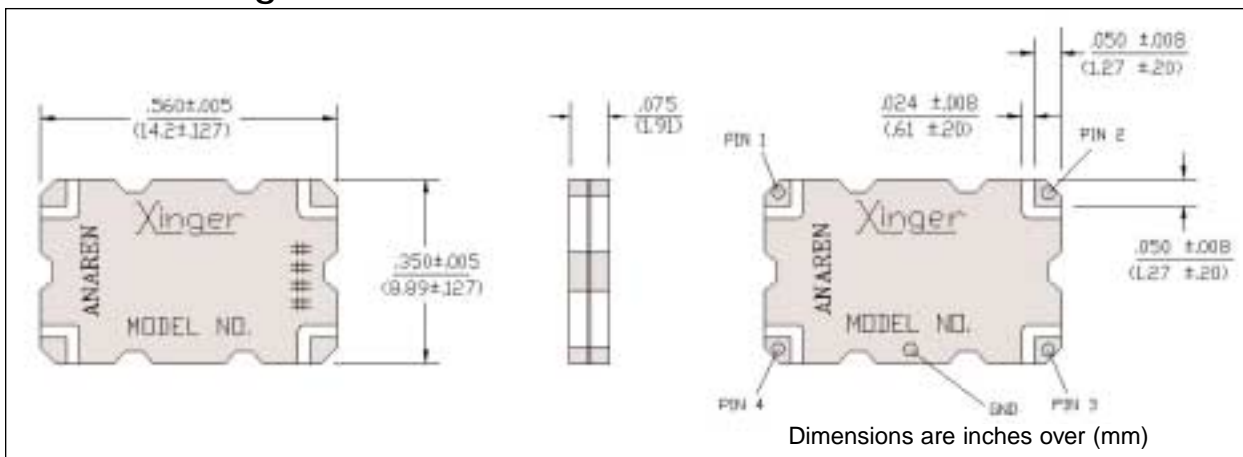
- 800 - 1200 MHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Electrical Specifications

	Frequency MHz	Isolation dB Min	Insert. Loss dB Max	VSWR Max : 1
Narrow	815 - 960	22	0.23	1.18
Broad	800 - 1200	21	0.25	1.20
	Amp. Bal. dB Max	Phase Bal. Degrees Max	Θ_{JC} (deg C/diss W)	Power Ave. CW Watts
Narrow	±0.30	3	12.3	150
Broad	±0.40			

Specifications subject to change without notice.

Outline Drawing



Available on Tape and Reel for Pick and Place Manufacturing.

Sales Desk USA: Voice: (800) 544-2414 Fax: (315) 432-9121
 Sales Desk Europe: Voice: (+44) 23 92 232392 Fax: (+44) 23 92 251369

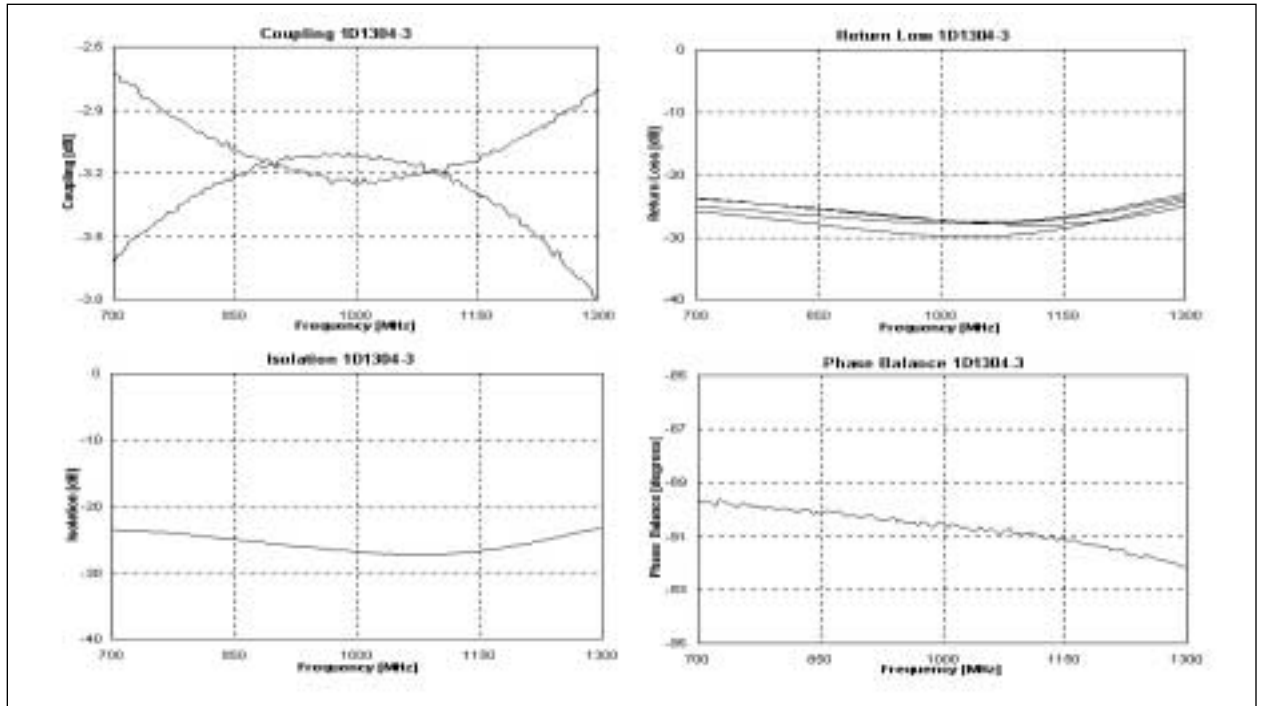
Model 1D1304-3

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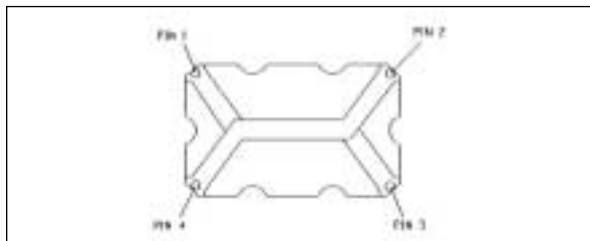
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Xinger®

Typical Performance

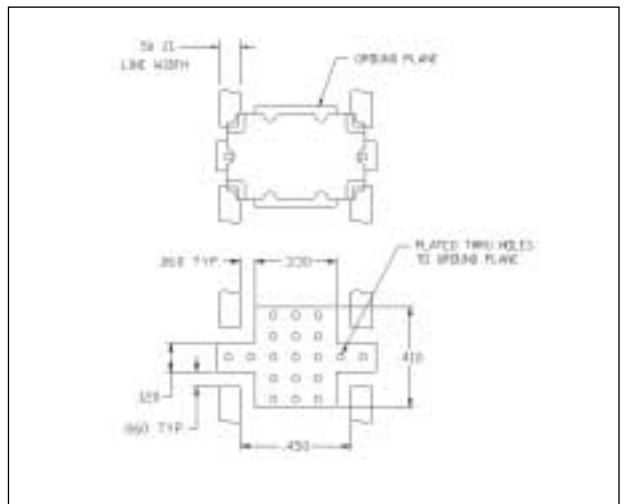


Pin Configuration



	Pin 1	Pin 2	Pin 3	Pin 4
#1	Input	Isolated	-3dB, -90°	-3dB, 0°
#2	Isolated	Input	-3dB, 0°	-3dB, -90°
#3	-3dB, -90°	-3dB, 0°	Input	Isolated
#4	-3dB, 0°	-3dB, -90°	Isolated	Input

Mounting Footprint



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What'll we think of next?™

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