

Xinger®

Hybrid Couplers

3 dB, 90°

Description

The 1F1304-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering broadcast TV applications. The 1F1304-3 is ideal for balanced amplifiers and signal distribution and can be used in most high power designs. 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

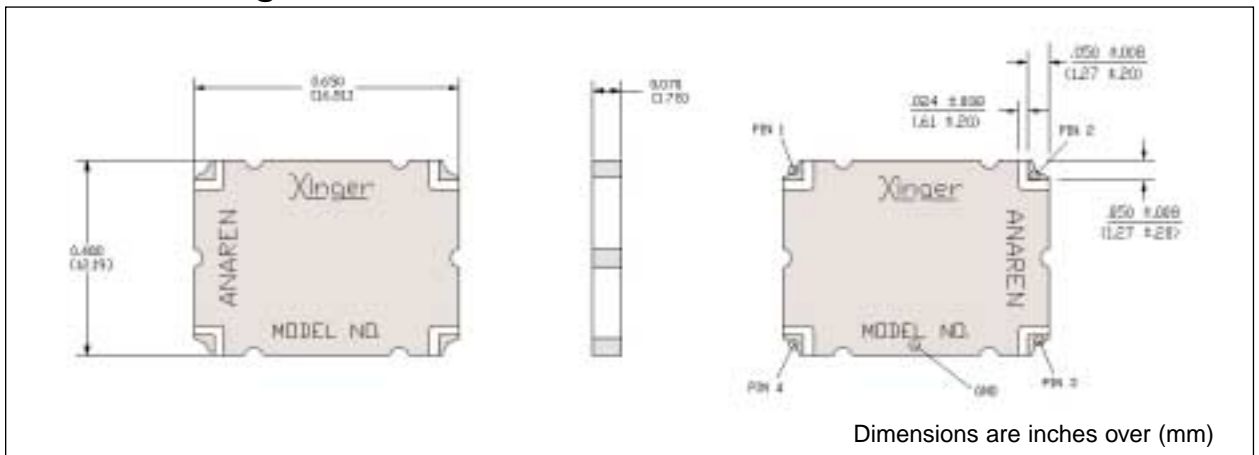
- 470 - 860 MHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Electrical Specifications

Frequency MHz	Isolation dB Min	Insert. Loss dB Max	VSWR Max : 1
470 - 860	21	0.30	1.25
Amp. Bal. dB Max	Phase Bal. Degrees Max	Θ_{JC} (°C/diss. Watt)	Avg. Power CW [Watts]
±0.50	3	8.3	100

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

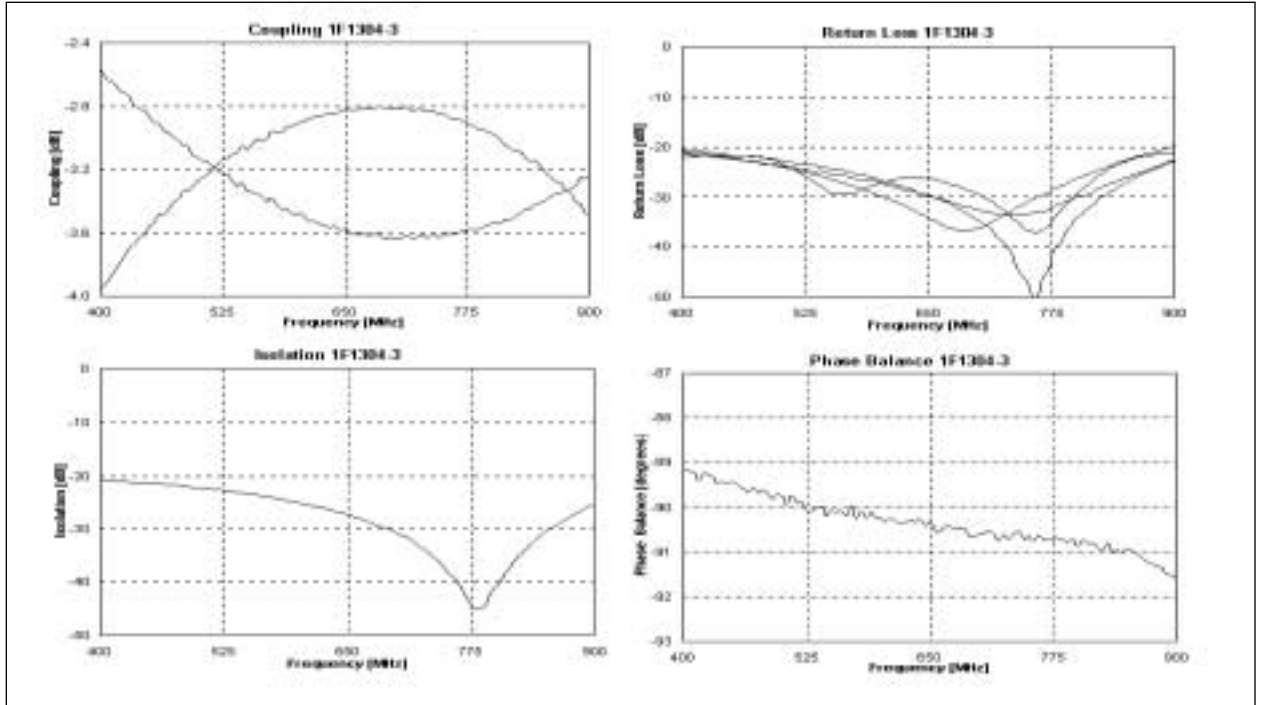
Model 1F1304-3

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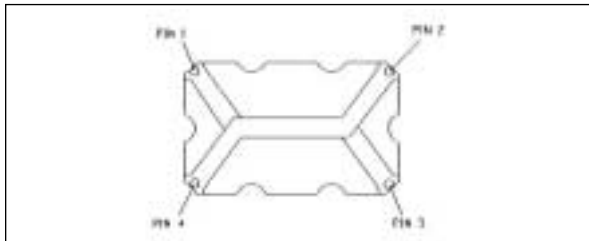
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Typical Performance

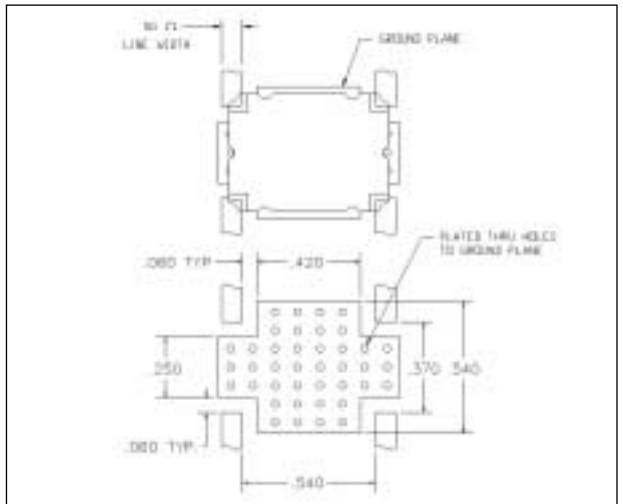


Pin Configuration



	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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