

Hybrid Couplers

3 dB, 90°

Description

The 1E1304-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package for AMPS, GSM, IDEN and EDGE applications. The 1E1304-3 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

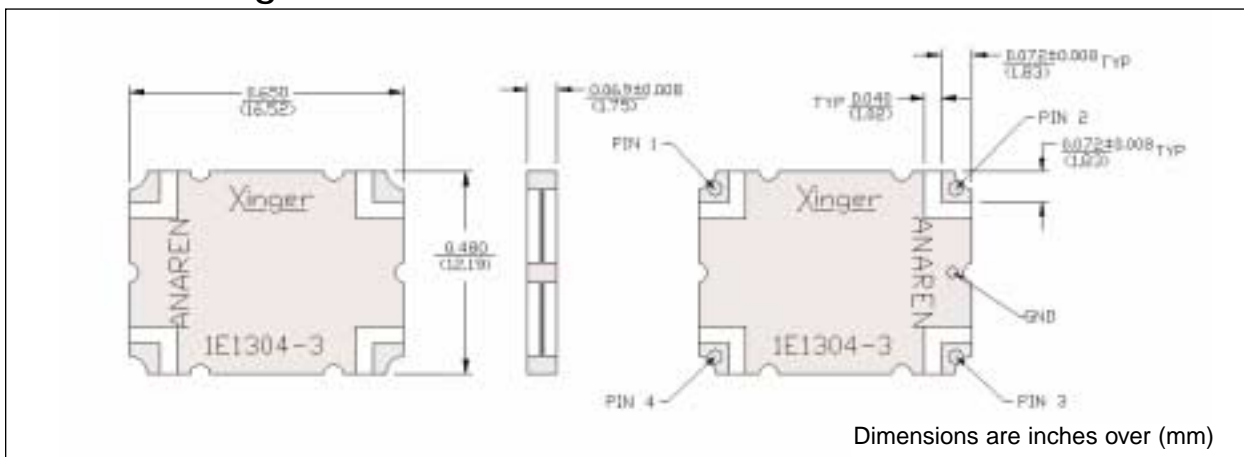
- 730 - 960 MHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

Electrical Specifications

Frequency MHz	Isolation dB Min	Insert. Loss dB Max	VSWR Max : 1
730 - 960	22	0.25	1.18
Amp. Bal. dB Max	Phase Bal. Degrees Max	Θ_{JC} (°C/diss. Watt)	Avg. Power CW [Watts]
±0.20	3	10.4	150

Specifications subject to change without notice.

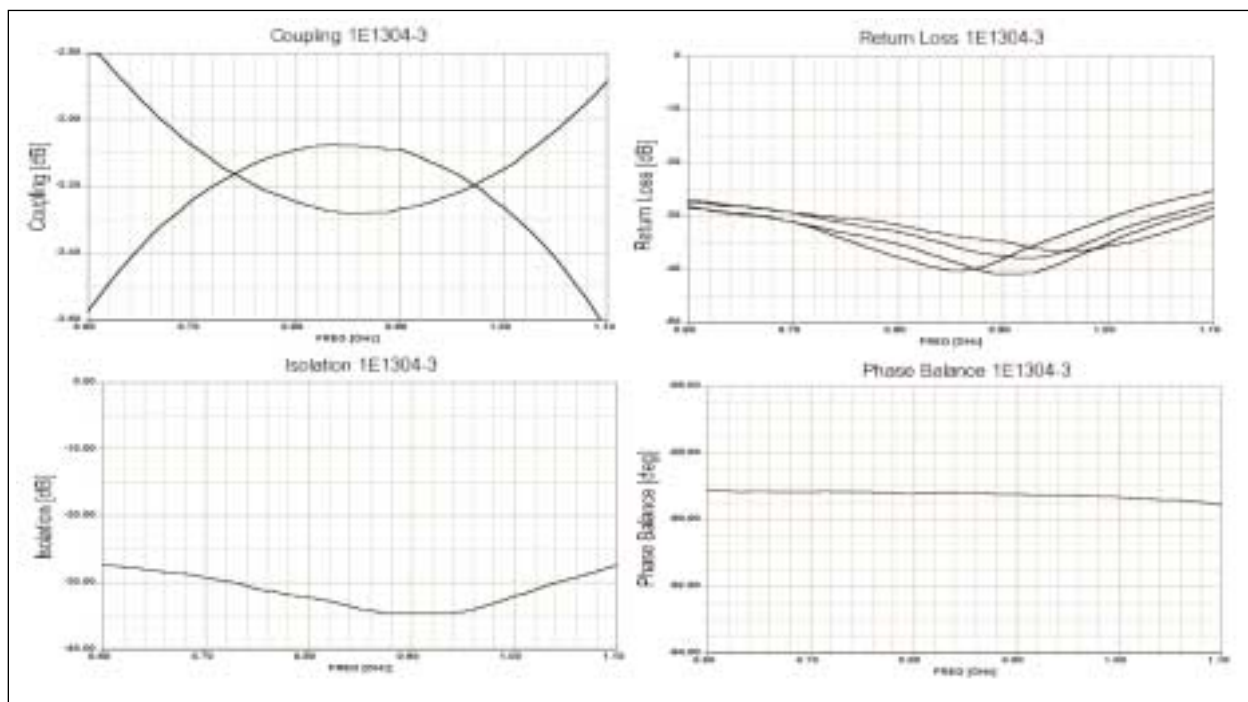
Outline Drawing



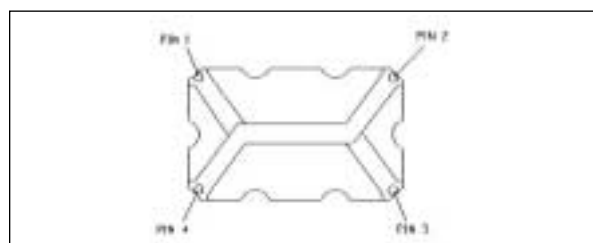
Available on Tape and Reel for Pick and Place Manufacturing.

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Typical Performance

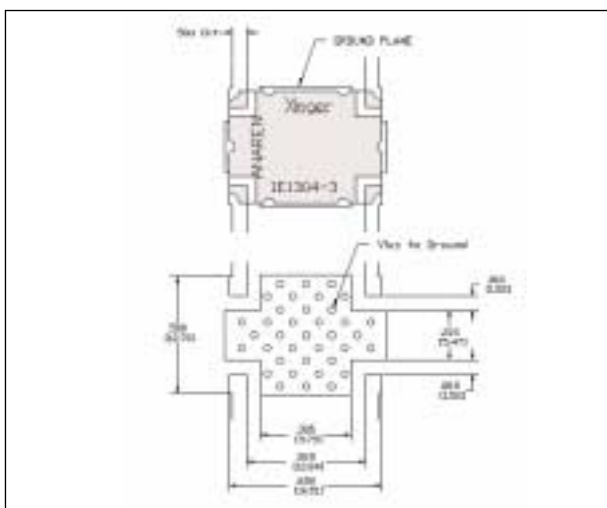


Pin Configuration



	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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