## Xinger

## Hybrid Couplers $3 \mathrm{~dB}, 90^{\circ}$

## Description



The 1D1304-3 is a low profile 3dB hybrid coupler in an easy to use surface mount package covering the AMPS and GSM bands. The 1D1304-3 is ideal for balanced amplifiers and signal distribution and can be used in most high power designs. Parts have been subjected to rigorous qualification testing and units are $100 \%$ tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10 and polyamide.

ELECTRICAL SPECIFICATIONS**

## Features:

- $800-1200 \mathrm{MHz}$
- Low Loss
- High Isolation
- $90^{\circ}$ Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100\% Tested
**Specification based on performance of unit properly installed on microstrip printed circuit boards with $50 \Omega$ nominal impedance. Specifications subject to change without notice.


## Outline Drawing

Top View (Near-side) Side View

Typical Performance: 700 MHz . to 1300 MHz .


Pin Configuration

Pin 1


Pin 4
Pin 3

| Hybrid Coupler Pin Configruation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Pin 1 | Pin 2 | Pin 3 | Pin 4 |
| Configuration \#1 | Input | Isolated | $-3 \mathrm{~dB},-90^{\circ}$ | $-3 \mathrm{~dB}, 0^{\circ}$ |
| Configuration \#2 | Isolated | Input | $-3 \mathrm{~dB}, 0^{\circ}$ | $-3 \mathrm{~dB},-90^{\circ}$ |
| Configuration \#3 | $-3 \mathrm{~dB},-90^{\circ}$ | $-3 \mathrm{~dB}, 0^{\circ}$ | Input | Isolated |
| Configuration \#4 | $-3 \mathrm{~dB}, 0^{\circ}$ | $-3 \mathrm{~dB},-90^{\circ}$ | Isolated | Input |

Pin 2

Mounting Footprint
To ensure proper electrical and thermal performance
there must be a ground plane with $100 \%$
solder connection underneath the part

Part Is Symmetric About All Axis


USA/Canada:
Toll Free:
Europe:
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+44 2392-232392

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