







### **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.

### Features:

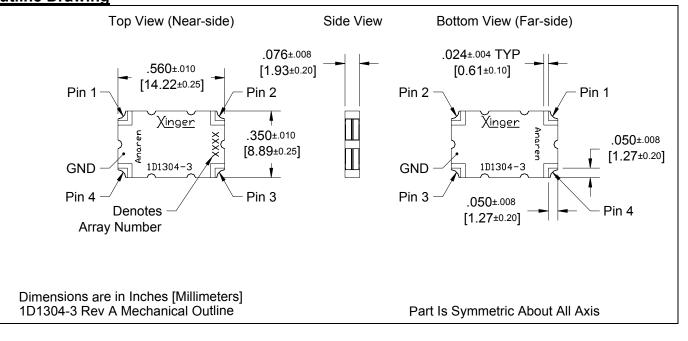
- 800 1200 MHz
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape And Reel
- Convenient Package
- 100% Tested

#### **ELECTRICAL SPECIFICATIONS\*\***

1		y Isolation Insertion VSWR				
	Frequency	Isolation	Insertion Loss	VSWR		
	MHz	dB Min	dB Max	Max:1		
	815 – 960	22	0.23	1.18		
	800 – 1200	21	0.25	1.20		
	Amplitude Balance	Phase Balance	Power	ΘJC	Operating Temp.	
	dB Max	Degrees	Ave. CW Watts	°C/Watt	°C	
	± 0.30	± 3	150	12.3	-55 to +85	
	± 0.40	± 3	150	12.3	-55 to +85	

\*\*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**







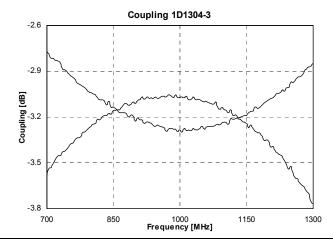
Available on Tape and Reel For Pick and Place Manufacturing.

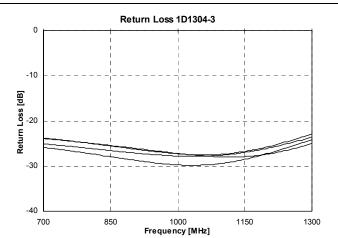
USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392

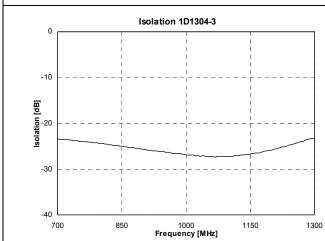


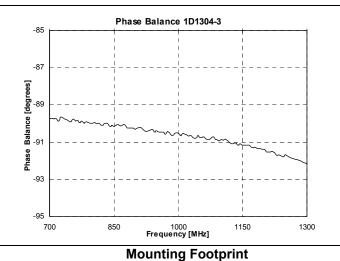
# Xinger<sub>®</sub>

## Typical Performance: 700 MHz. to 1300 MHz.

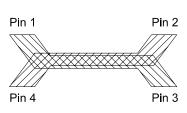




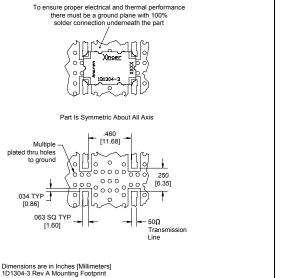




## **Pin Configuration**



Hybrid Coupler Pin Configruation							
	Pin 1	Pin 2	Pin 3	Pin 4			
Configuration #1	Input	Isolated	-3dB, -90°	-3dB, 0°			
Configuration #2	Isolated	Input	-3dB, 0°	-3dB, -90°			
Configuration #3	-3dB, -90°	-3dB, 0°	Input	Isolated			
Configuration #4	-3dB, 0°	-3dB, -90°	Isolated	Input			



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392 Available on Tape and Reel For Pick and Place Manufacturing.



## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning category:

Click to view products by Anaren manufacturer:

Other Similar products are found below:

MAPDCC0004 PD0409J5050S2HF 880157 HHS-109-PIN DC1417J5005AHF DC4859J5005AHF AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN DSS-313-PIN B39321R801H210 B39321R821H210 B39921B4317P810 1A0220-3 2089-6207-00 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 1P510S CER0813B 3A325 40287 41180 ATB3225-75032NCT B69842N5807A150 BD0810N50100AHF BD2326L50200AHF BD2425J50200AHF HMC189AMS8TR C5060J5003AHF JHS-114-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2081E SF2194E SF2238E CDBLB455KCAX39-B0 RF1353C PD0922J5050D2HF