

### Description

The S03B1960N3 is a low profile 3 dB hybrid coupler in an easy to use surface mount package specially designed for PCS applications. The S03B1960N3 is ideal for balanced amplifiers and signal distribution and can be used in very high power designs. Parts have been run through rigorous qualifications and units are 100% tested. They are manufactured using materials with X and Y thermal expansion coefficients compatible with common substrates.

### Features

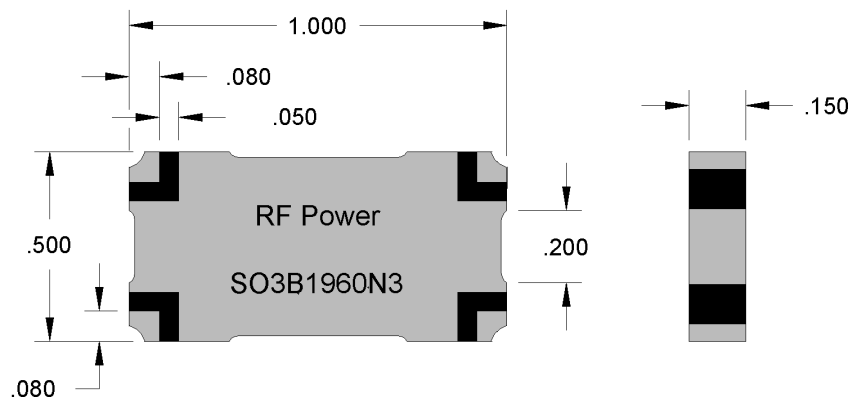
- 1.93 - 1.99 GHz
- 300 Watts
- Low Loss
- High Isolation
- 90° Quadrature
- Surface Mountable
- Tape and Reel
- Convenient Package
- 100% Tested

### Electrical Specifications

| Frequency<br>GHz    | Isolation<br>dB Min       | Insert. Loss<br>dB Max | VSWR<br>Max: 1         |
|---------------------|---------------------------|------------------------|------------------------|
| 1.93 - 1.99         | 20                        | 0.15                   | 1.25                   |
| Amp. Bal.<br>dB Max | Phase Bal.<br>Degrees Max | Temp.<br>°C            | Power<br>Avg. CW Watts |
| ±0.15               | 3                         | -55 to +85             | 300                    |

Specifications subject to change without notice.

### Outline Drawing



VER. 3/13/02

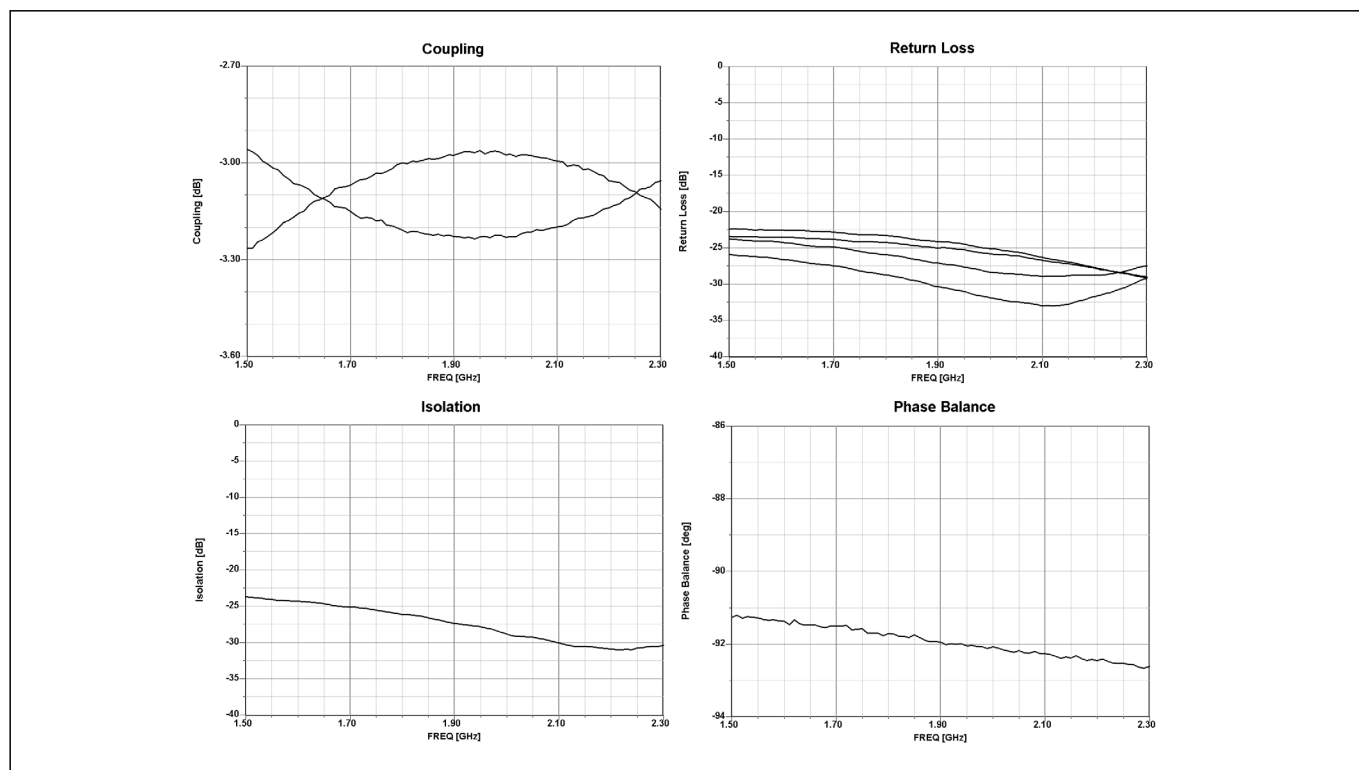


Available on Tape and Reel for Pick and Place Manufacturing.

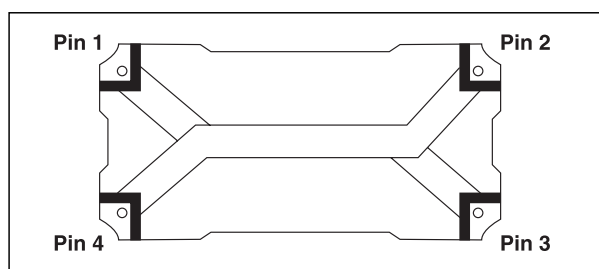
Sales Desk USA: Voice: (800) 544-2414 Fax: (315) 432-9121  
Sales Desk Europe: Voice: (+44) 23 92 232392 Fax: (+44) 23 92 251369

***www.anaren.com***

## Typical Performance

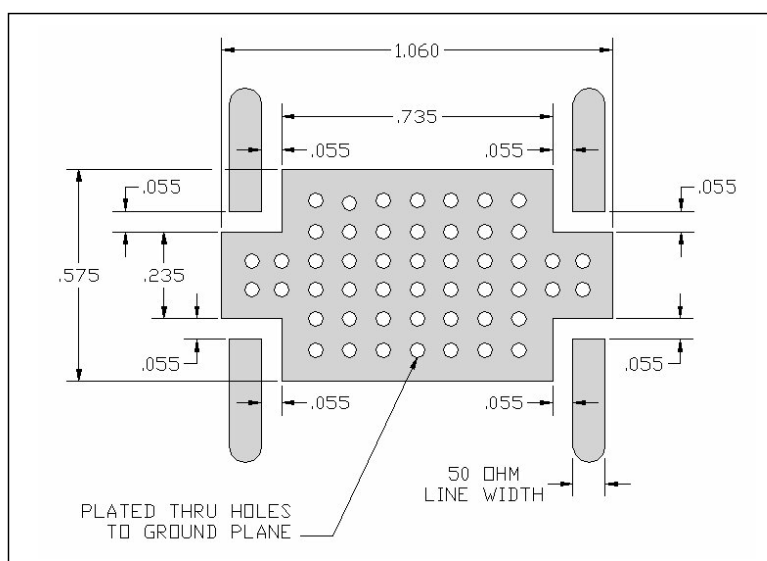


## Pin Configuration



|    | 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



Available on Tape and Reel for Pick and Place Manufacturing.

