

# 2-WAY POWER DIVIDER

## SURFACE MOUNT MODEL: SPD-C5A

WIDE BANDWIDTH

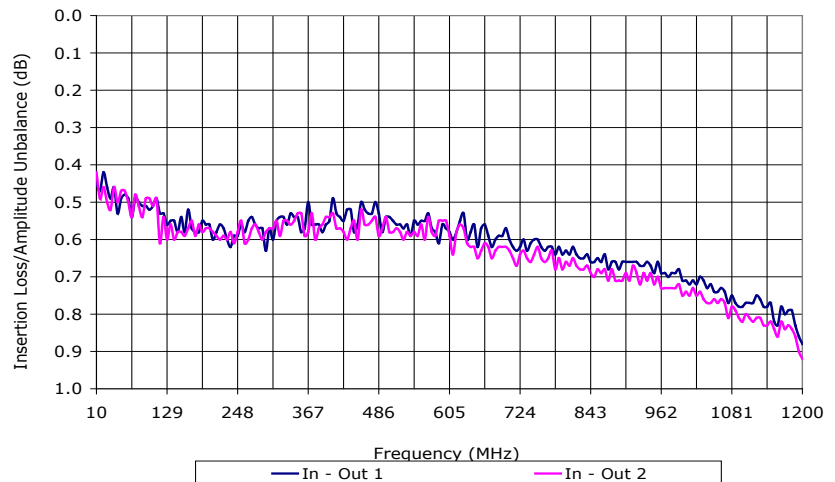
10 - 1200 MHz

### FEATURES:

- ▶ Excellent Performance
- ▶ Small Size, Surface Mount
- ▶ Moderate Power

### APPLICATIONS:

- ▶ Signal Splitting & Low Power Combining



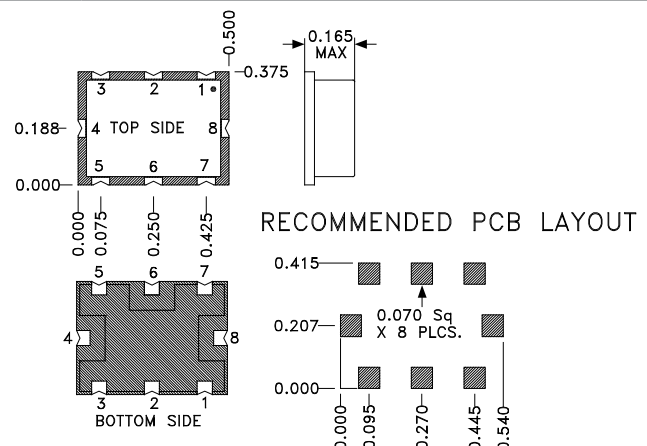
### SPECIFICATIONS

|                             |                |               |      |
|-----------------------------|----------------|---------------|------|
| Frequency                   | 10 - 1200 MHz  |               |      |
| Insertion Loss (dB) *       | Freq. (MHz)    | Typ.          | Max. |
|                             | 10 - 100       | 0.5           | 0.7  |
|                             | 100 - 600      | 0.55          | 0.75 |
|                             | 600 - 1200     | 0.7           | 1.0  |
| Isolation (dB)              | Freq. (MHz)    | Typ.          | Min. |
|                             | 10 - 100       | 28            | 24   |
|                             | 100 - 600      | 26            | 22   |
|                             | 600 - 1200     | 24            | 20   |
| Phase Unbalance             | Freq. (MHz)    | Typ.          | Max. |
|                             | 10 - 100       | 0.3°          | 2.0° |
|                             | 100 - 600      | 1.5°          | 3.0° |
|                             | 600 - 1200     | 2.5°          | 5.0° |
| Amplitude Unbalance (dB)    | Freq. (MHz)    | Typ.          | Max. |
|                             | 10 - 100       | 0.02          | 0.1  |
|                             | 100 - 600      | 0.03          | 0.2  |
|                             | 600 - 1200     | 0.05          | 0.2  |
| Input Power **              | 1 Watt (Max.)  |               |      |
| VSWR                        | Input          | Output        |      |
|                             | 1.18:1 (Typ.)  | 1.10:1 (Typ.) |      |
| Impedance                   | 50 Ohms (Nom.) |               |      |
| Operating Temperature Range | -40 to +85 °C  |               |      |

\* Above 3.0 dB theoretical split loss.

\*\* Handling power applies to splitter mode and assumes ideal 50 Ohms impedance matching on all ports.

Package # 357



TOLERANCES ON THREE  
DECIMAL PLACES =  $\pm 0.015$

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

| Port Configuration |        |            |
|--------------------|--------|------------|
| Input              | Output | Ground     |
| 6                  | 4,8    | All Others |

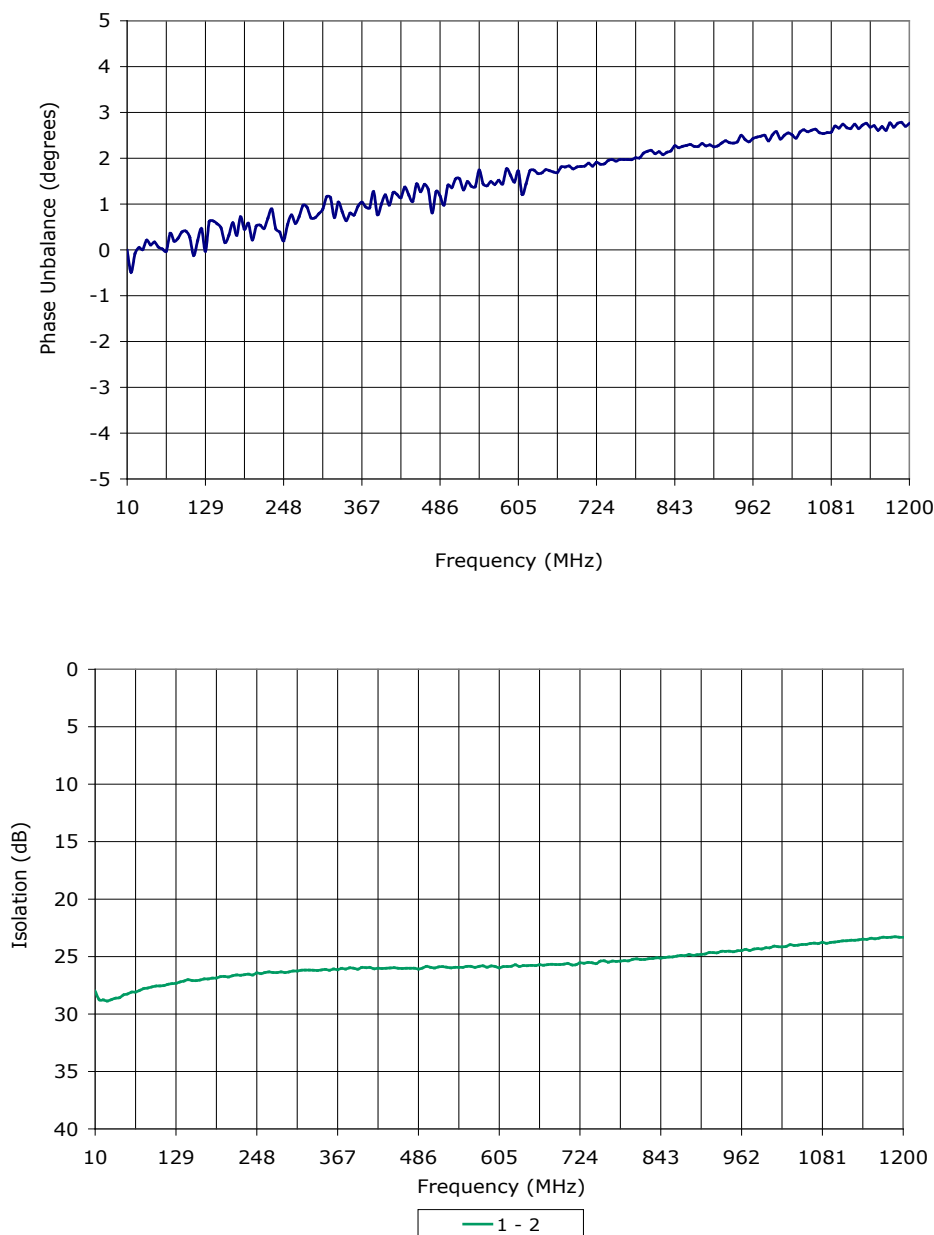
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Data @ 25°C



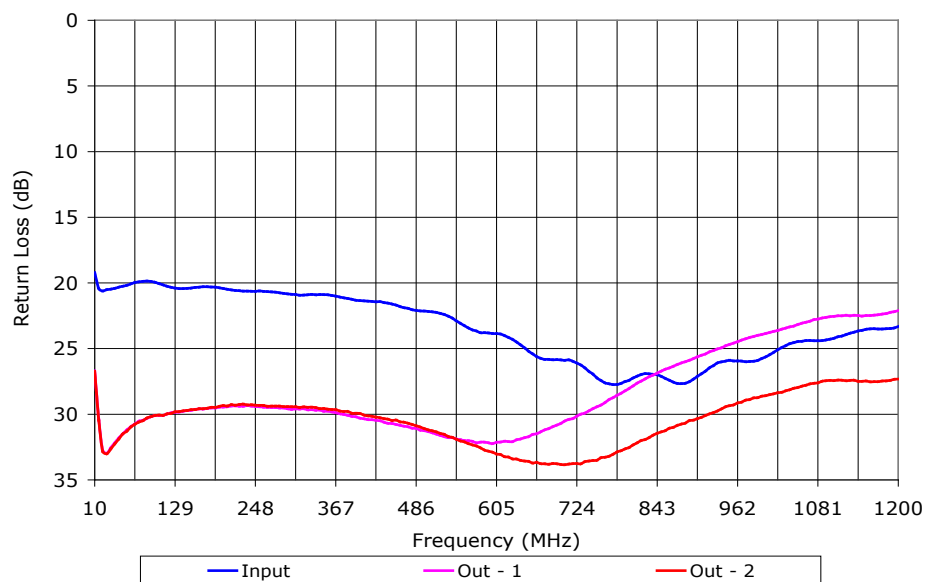
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PERFORMANCE PLOTS