

# 2-WAY POWER DIVIDER

## SURFACE MOUNT MODEL: SPD-10-215

WIDE BANDWIDTH

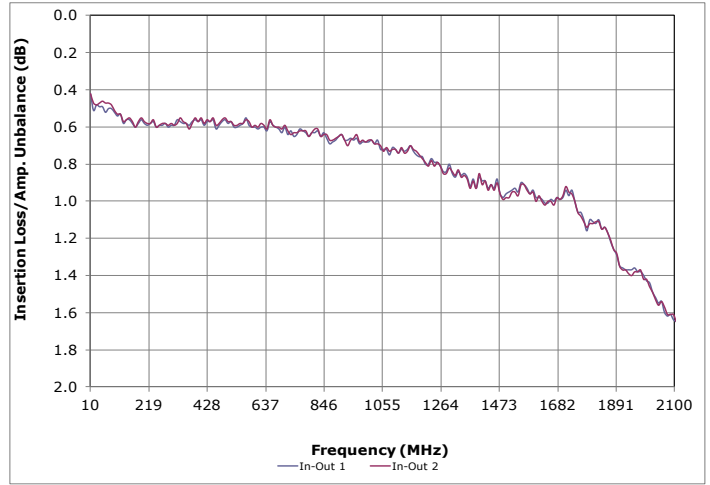
10 - 2150 MHz

**FEATURES:**

- ▶ Excellent Performance
- ▶ Small Size, Surface Mount
- ▶ Moderate Power
- ▶ Lead Free RoHS Compliant

**APPLICATIONS:**

- ▶ Signal Splitting & Low Power Combining

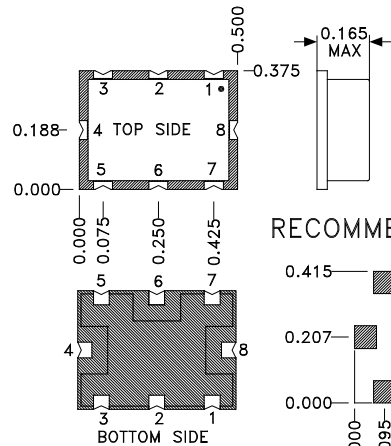


**SPECIFICATIONS (Rev. A 05/12/14)**

|                                    |                |      |      |
|------------------------------------|----------------|------|------|
| <b>Frequency</b>                   | 10 - 2150 MHz  |      |      |
| <b>Insertion Loss (dB) *</b>       | Freq. (MHz)    | Typ. | Max. |
|                                    | 10 - 100       | 0.5  | 0.75 |
|                                    | 100 - 1075     | 0.7  | 1.0  |
|                                    | 1075 - 2150    | 1.6  | 2.2  |
| <b>Isolation (dB)</b>              | Freq. (MHz)    | Typ. | Min. |
|                                    | 10 - 100       | 23   | 20   |
|                                    | 100 - 1075     | 23   | 18   |
|                                    | 1075 - 2150    | 25   | 18   |
| <b>Phase Unbalance (Deg.)</b>      | Freq. (MHz)    | Typ. | Max. |
|                                    | 10 - 100       | 0.5  | 2.0  |
|                                    | 100 - 1075     | 3.0  | 6.0  |
|                                    | 1075 - 2150    | 3.0  | 6.0  |
| <b>Amplitude Unbalance (dB)</b>    | Freq. (MHz)    | Typ. | Max. |
|                                    | 10 - 100       | 0.1  | 0.2  |
|                                    | 100 - 1075     | 0.1  | 0.2  |
|                                    | 1075 - 2150    | 0.2  | 0.4  |
| <b>Input Power **</b>              | 1 Watt (Max.)  |      |      |
| <b>VSWR</b>                        | 1.7:1 (Typ.)   |      |      |
| <b>Impedance</b>                   | 50 Ohms (Nom.) |      |      |
| <b>Operating Temperature Range</b> | -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



**RECOMMENDED PCB LAYOUT**

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

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

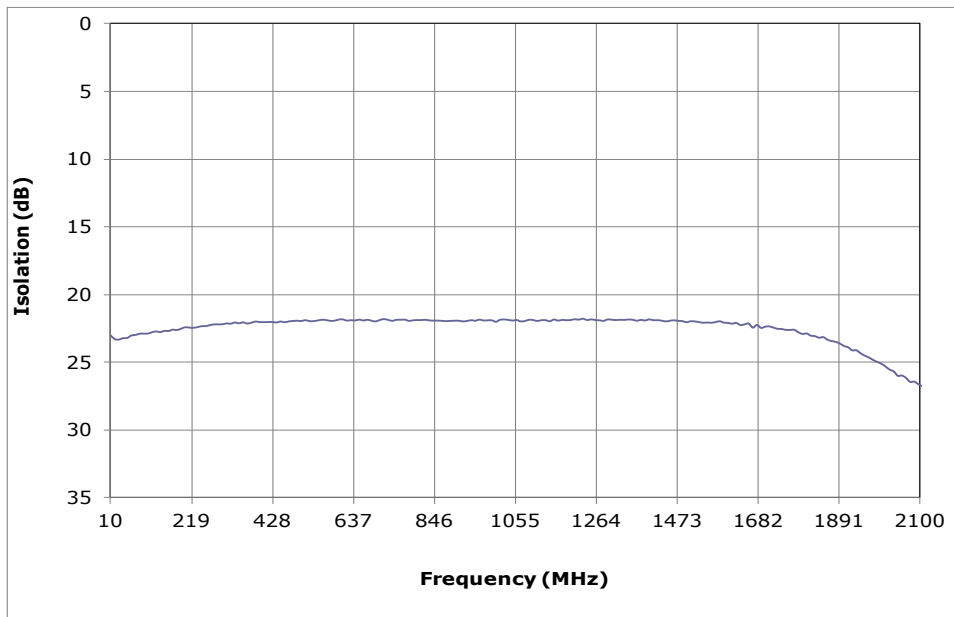
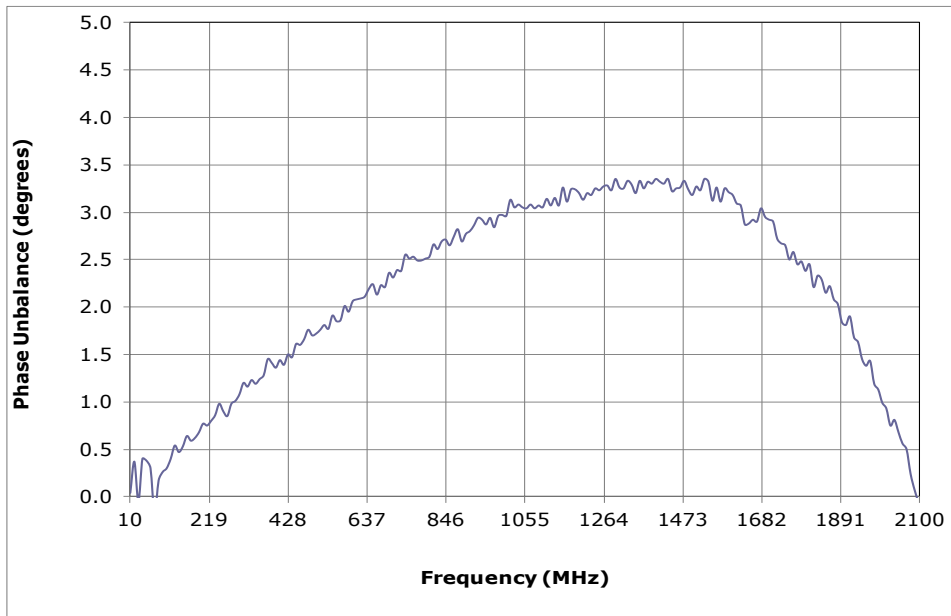
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Data @ 25°C



PERFORMANCE PLOTS

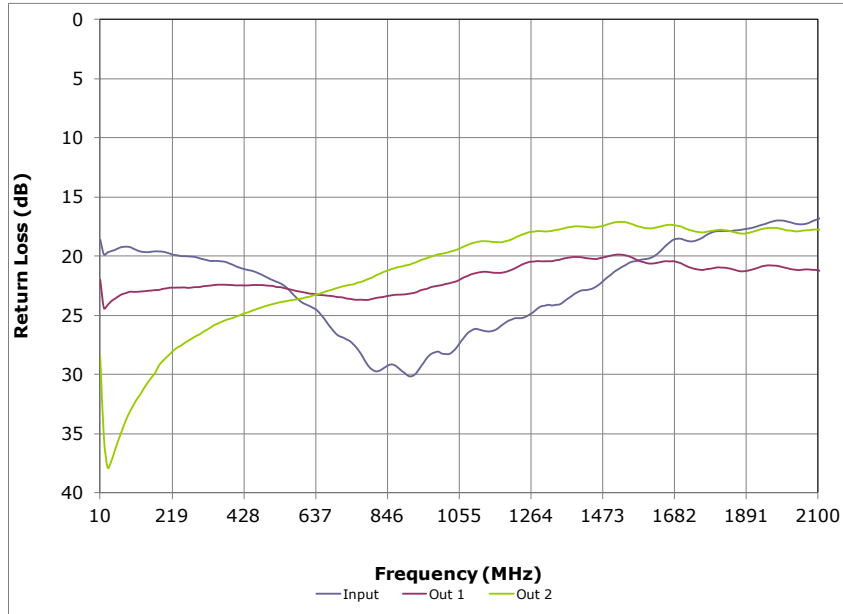
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