

### Features

- Frequency Range: 800 MHz to 980MHz
- Industry Standard SMT package
- Low Cost and RoHS Compliant
- Available in Tape-and -Reel
- 50Ω Characteristic Impedance

### Product Description

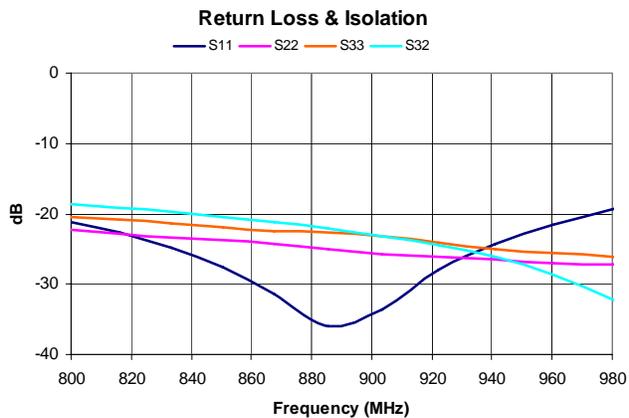
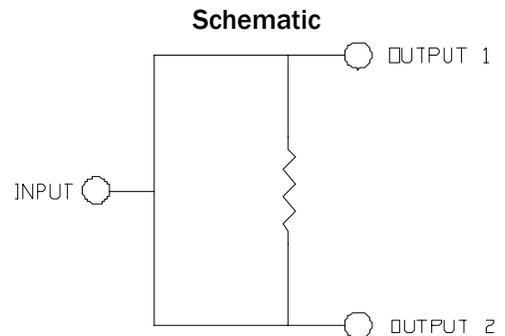
The SPA-1001-25H is a 0° two way power splitter designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broadband, wireless, and other communications systems. These units are built Lead-Free and RoHS Compliant. S-Parameters are available on request.



### Specifications

| Parameter         | Specification |      |      | Unit |
|-------------------|---------------|------|------|------|
|                   | Min.          | Typ. | Max. |      |
| Frequency Range   | 800           |      | 980  | MHz  |
| Insertion Loss    |               | 0.2  | 0.5  | dB   |
| Isolation         | 18            | 23   |      | dB   |
| Return Loss       | 17.7          | 30   |      | dB   |
| Amplitude Balance |               | 0.2  | 0.5  | dB   |
| Phase Balance     |               | 1.0  | 2.0  | °    |

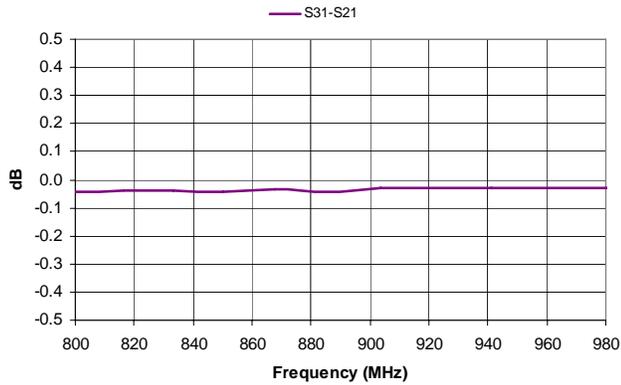
Note: Typical values represent midband performance at T=25 °C.



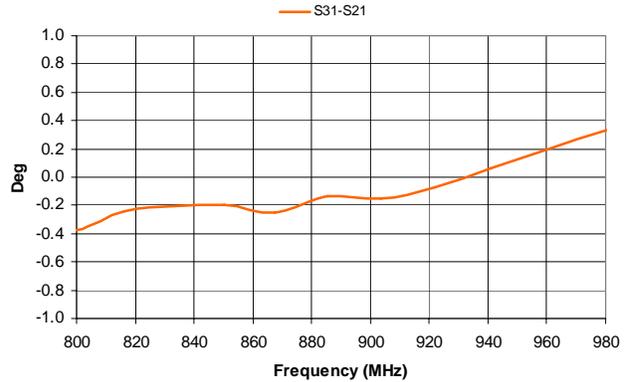
# SPA-1001-25H



## Amplitude Balance



## Phase Balance



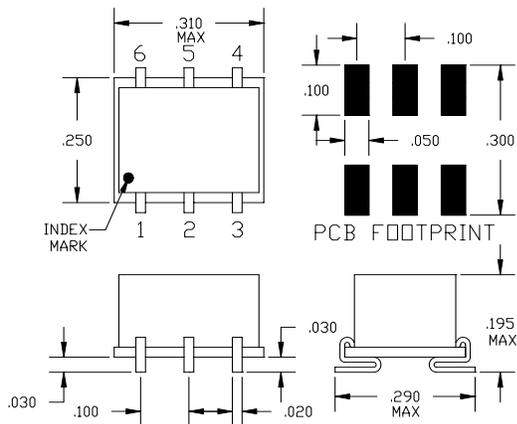
## Pin Out

| Pin     | Name     |
|---------|----------|
| 1       | Input    |
| 3       | Output 1 |
| 4       | Output 2 |
| 2, 5, 6 | Ground   |

## Absolute Maximum Ratings

| Parameter             | Rating      | Unit |
|-----------------------|-------------|------|
| RF Power              | +33         | dBm  |
| Operating Temperature | -55 to +100 | °C   |
| Storage Temperature   | -55 to +100 | °C   |

## Package Drawing - S06



Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

RoHS status based on EU Directive 2002/95/EC (at time of this document revision).

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