

## Features

- Frequency Range 1 – 500 MHz
- Low Cost
- Industry Standard SMT package
- Available in Tape-and -Reel
- 50 Ohms Characteristic Impedance

## Description

The SPA-0501-25 is a 0° In-phase 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.

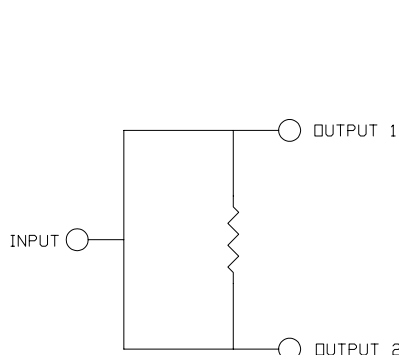
S-Parameters are available on request.

## Specifications

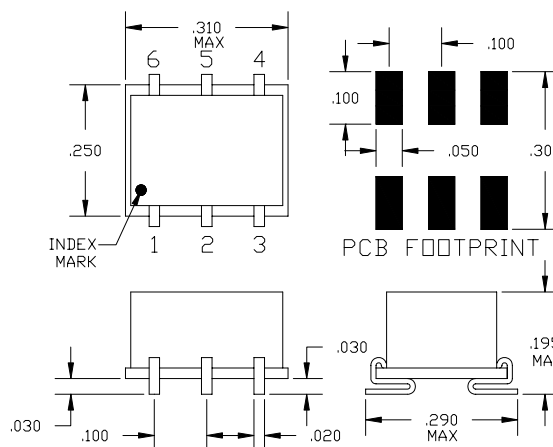
| Parameter               | Minimum | Typical | Maximum |
|-------------------------|---------|---------|---------|
| Frequency Range (MHz)   | 1       |         | 500     |
| Insertion Loss (dB)     |         | 0.4     | 1.0     |
| Isolation (dB)          | 20      | 35      |         |
| Return Loss (dB)        |         | 20      | 14      |
| Amplitude Balance (dB)  |         | 0.1     | 0.3     |
| Phase Balance (Degrees) |         | 1.0     | 4.0     |

Note: Typical values represent Mid-band performance @ 25°C.

## Schematic



## Package – S06



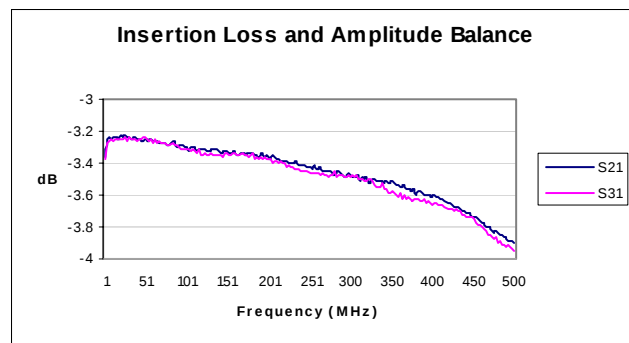
## Absolute Maximum Ratings

| Parameter             | Maximum        |
|-----------------------|----------------|
| RF Power              | +33 dBm        |
| Operating Temperature | -55 to +100 °C |
| Storage Temperature   | -55 to +100 °C |
| Re-flow Temperature   | + 240 °C       |

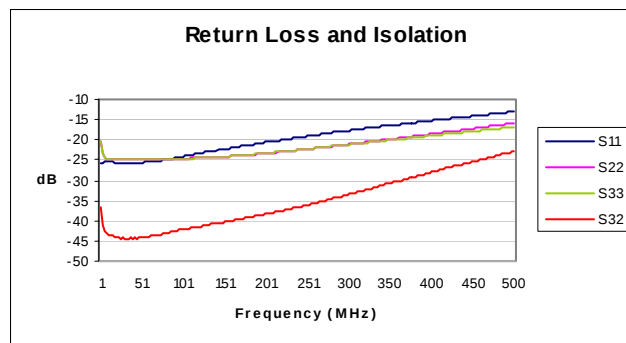
## Pin Functions

| Function | Pin   |
|----------|-------|
| INPUT    | 1     |
| OUTPUT 1 | 3     |
| OUTPUT 2 | 4     |
| GROUND   | 2,5,6 |

Typical Test Data – Insertion Loss and Amplitude Balance



Typical Test Data – Return Loss and Output Isolation



Specifications and information on this data sheet are subject to change without notice..