RFMD
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SPA-1002-27H

2-WAY SMT SPLITTER

RoHS Compliant and Pb-Free Product
Package: S06

Features

- Frequency Range: 5 MHz to 1000 MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT Package
- Available in Tape-and-Reel
- 75Ω Characteristic Impedance

Product Description

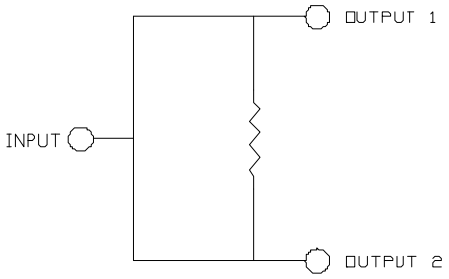
The SPA-1002-27H is a 0° two way power splitter designed for applications that require small, low cost and highly reliable surface mount components. Applications may be found in broadband, wireless, and other communications systems. These units are built Lead-Free and RoHS Compliant. S-Parameters are available on request.

Specifications

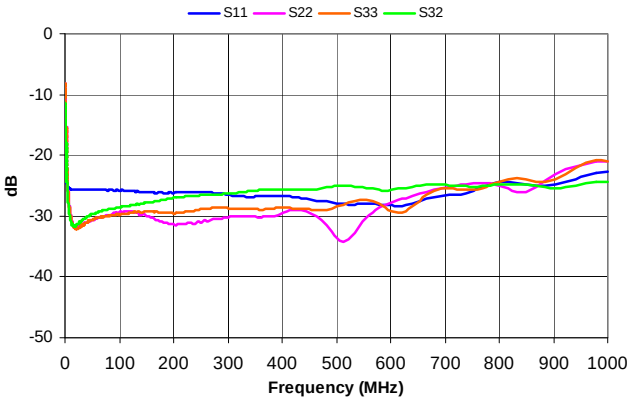
Parameter	Specification			Unit
	Min.	Typ.	Max.	
Frequency Range	5		1000	MHz
Insertion Loss		0.5	1.2	dB
Isolation	18	30		dB
Return Loss	17.7	23		dB
Amplitude Balance		0.1	0.4	dB
Phase Balance		1.0	3.0	°

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

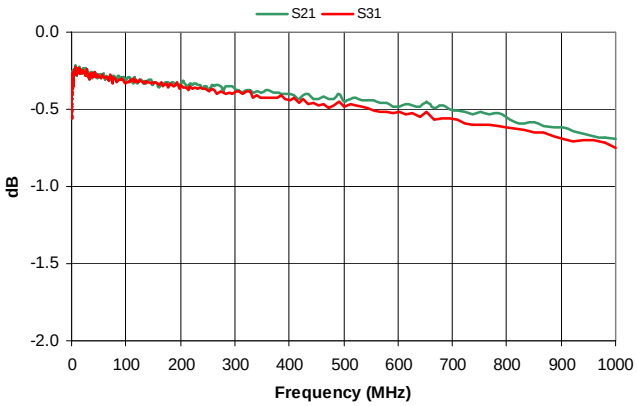
Schematic



Return Loss and Isolation



Insertion Loss



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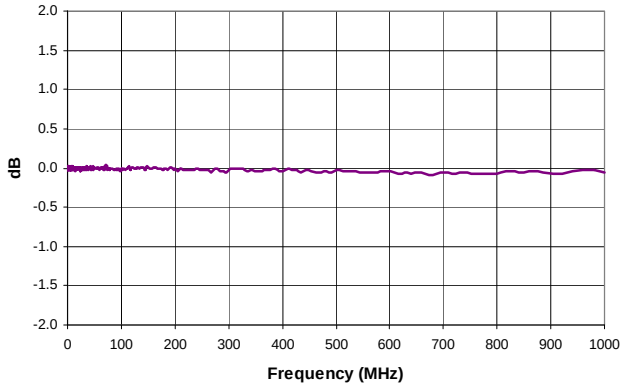
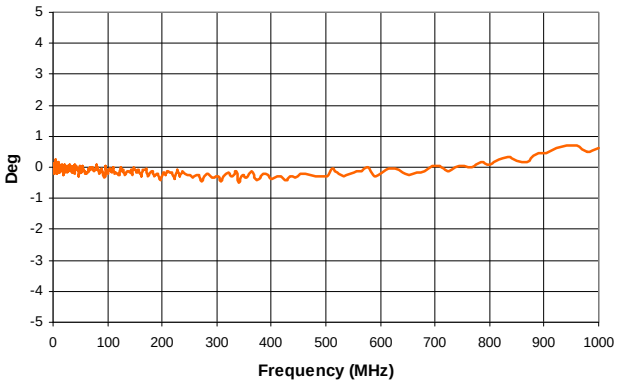
Amplitude Balance



Phase Balance



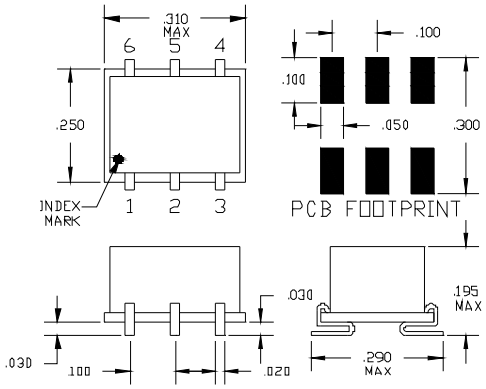
Pin Out

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 EUDirective2002/95/EC (at time of this document revision).

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