

RoHS Compliant and Pb-Free Product
Package: S06

Features

- Frequency Range 5 – 500 MHz
- Industry Standard SMT package
- Nominal Coupling 10 dB
- Available in Tape-and -Reel
- Low Cost and RoHS Compliant
- 50Ω Characteristic Impedance



Product Description

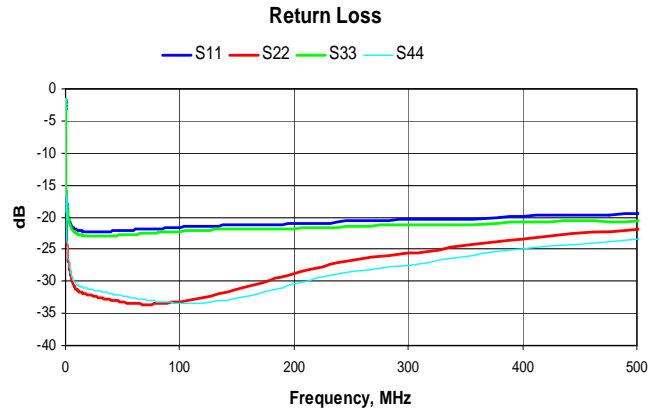
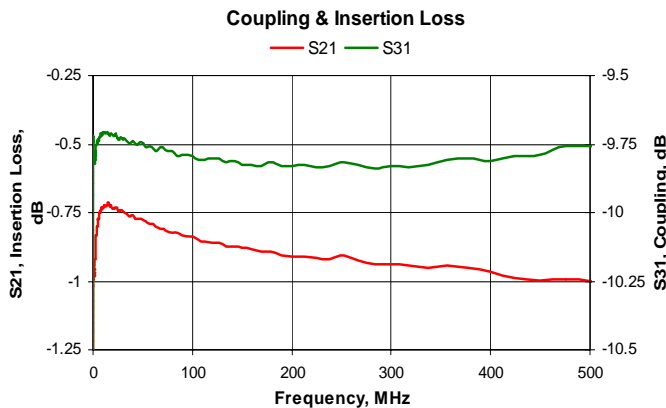
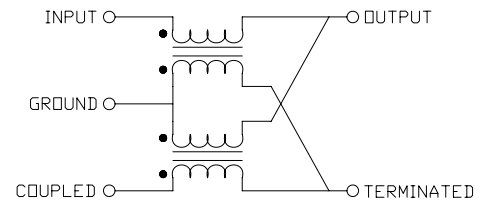
The CPA-0501-510H coupler is designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broadband, wire-less and other communications systems. These units are built Lead-Free and RoHS compliant. S-Parameters are available on request.

Specifications

Parameter	Specification			Unit
	Min.	Typ.	Max.	
Frequency Range	5		500	MHz
Nominal Coupling	9.5	10	10.5	dB
Coupling Flatness	-0.5		+0.5	dB
Mainline Loss		0.8	1.1	dB
Directivity	15	30		dB
Return Loss	15	23		dB

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

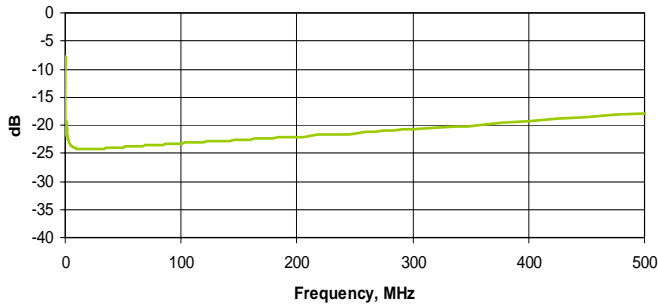
Schematic



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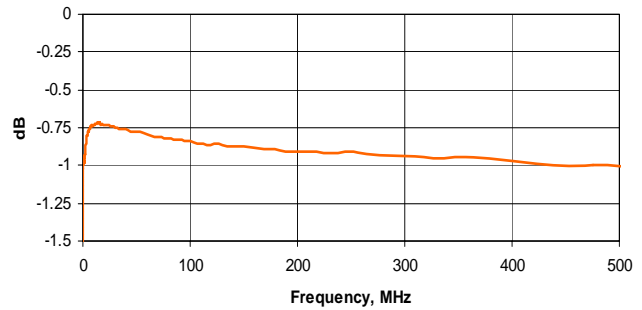
Directivity

S32-S31



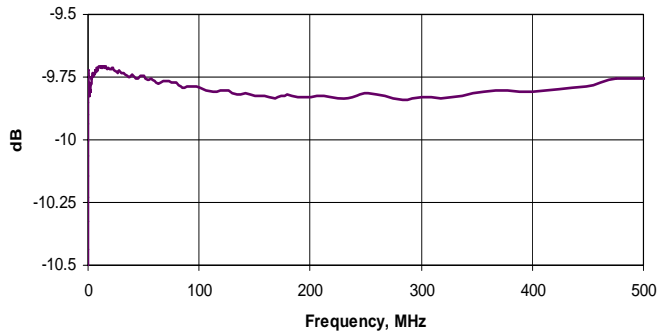
Insertion Loss

S21



Forward Coupling

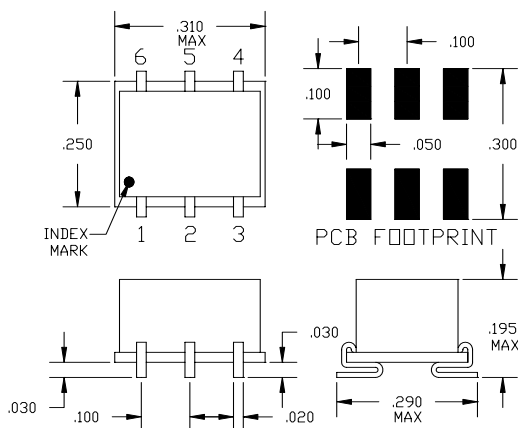
S31



Pin Out

Pin	Name
1	Input
2	Ground
3	Coupled
4	Terminated
5	Ground
6	Output

Package Drawing - S06



Absolute Maximum Ratings

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

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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