

**Features**

- Frequency Range: 5 MHz to 1000MHz
- Nominal Coupling: 6.5 ± 0.5 dB
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and -Reel
- 50Ω Characteristic Impedance

**Product Description**

The CPA-1001-56H 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.

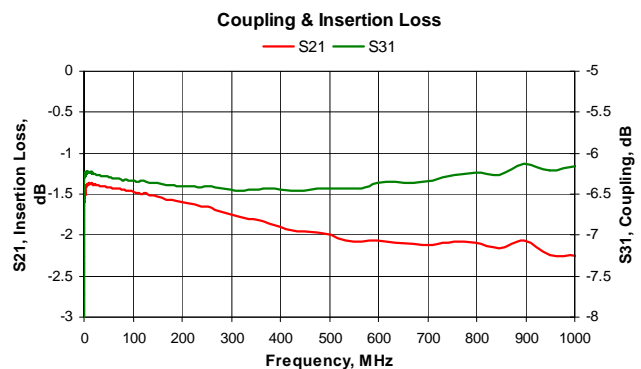
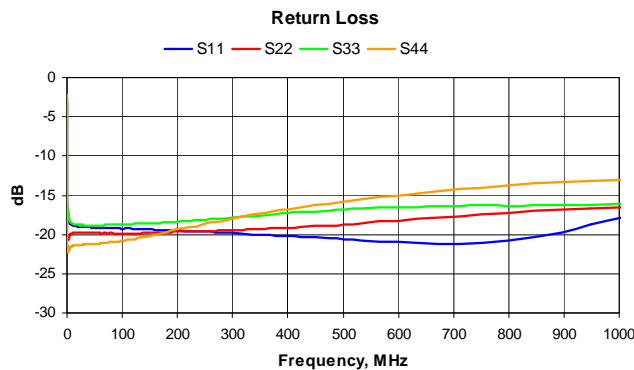
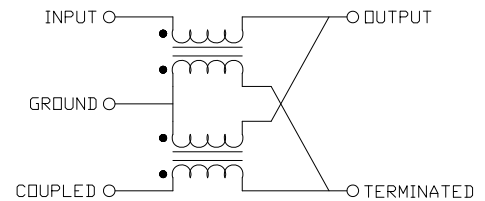


**Specifications**

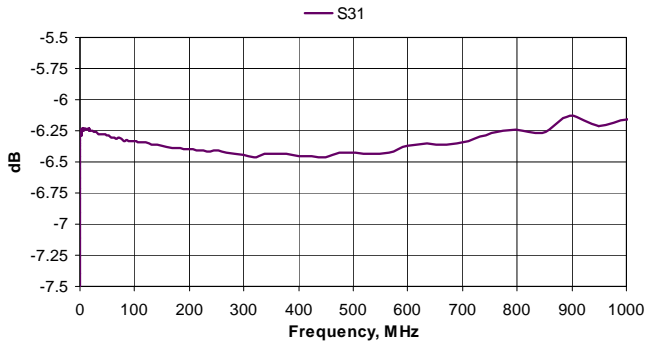
Parameter	Specification			Unit
	Min.	Typ.	Max.	
Frequency Range	5		1000	MHz
Nominal Coupling	6.0	6.5	7.0	dB
Coupling Flatness	-0.5		+0.5	dB
Mainline Loss		1.9	2.75	dB
Directivity	10	15		dB
Return Loss	12	18		dB

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

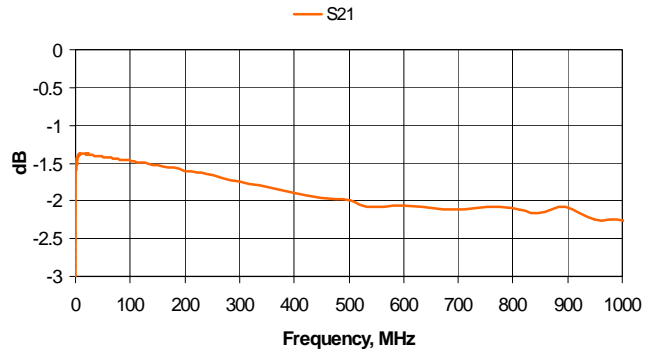
**Schematic**



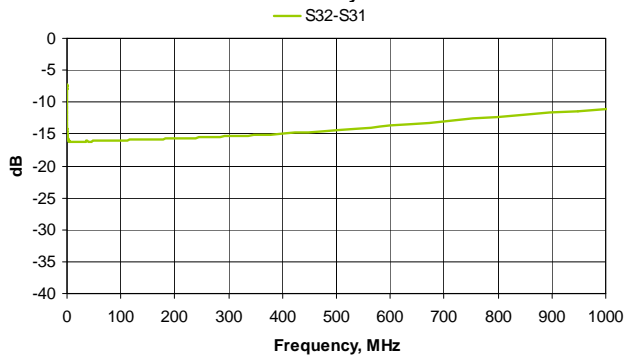
**Forward Coupling**



**Insertion Loss**



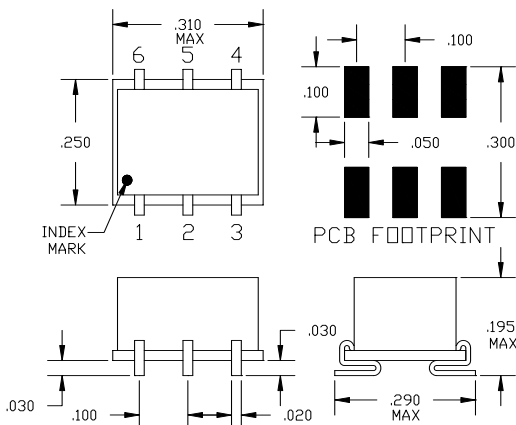
**Directivity**



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

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