

RoHS Compliant and Pb-Free Product  
Package: S06

## Features

- Frequency Range 5 MHz to 1000MHz
- Industry Standard SMT package
- Nominal Coupling 10 dB
- Available in Tape-and -Reel
- Low Cost and RoHS Compliant
- 50 $\Omega$  Characteristic Impedance

## Product Description

The CPA-1001-510H 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.

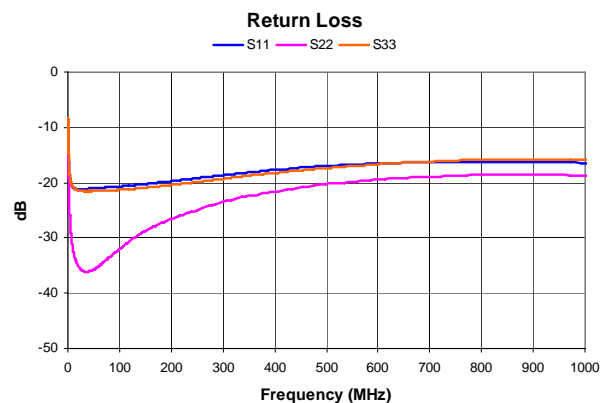
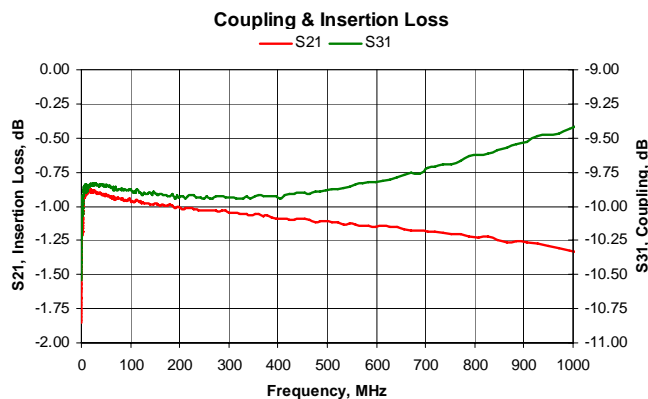
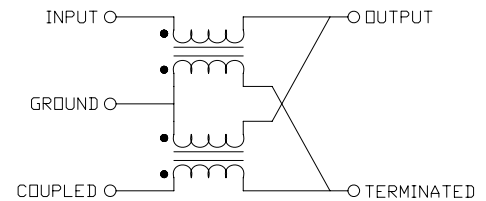


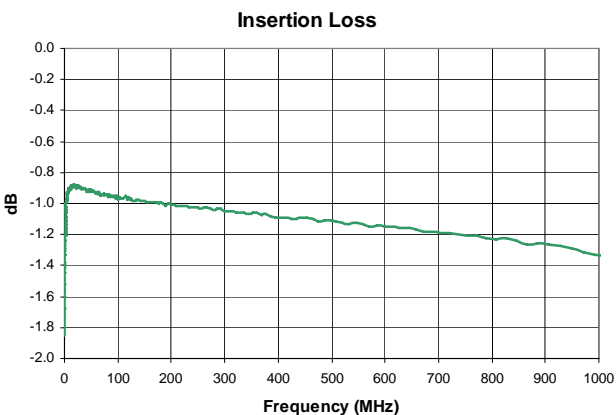
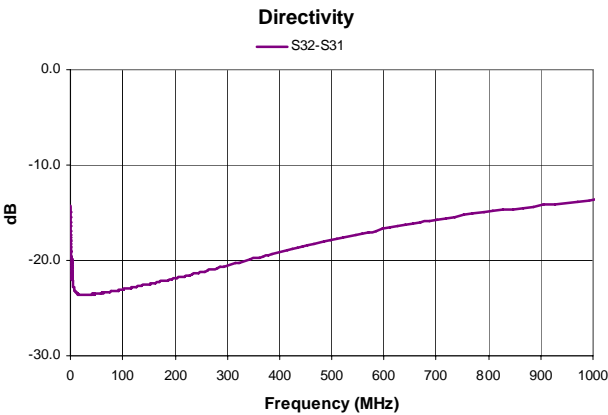
## Specifications

Parameter	Specification			Unit
	Min.	Typ.	Max.	
Frequency Range	5		1000	MHz
Nominal Coupling	9.5	10	10.5	dB
Coupling Flatness	-0.5		+0.5	dB
Mainline Loss		1.2	1.5	dB
Directivity	10	25		dB
Return Loss	14	20		dB

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

## Schematic





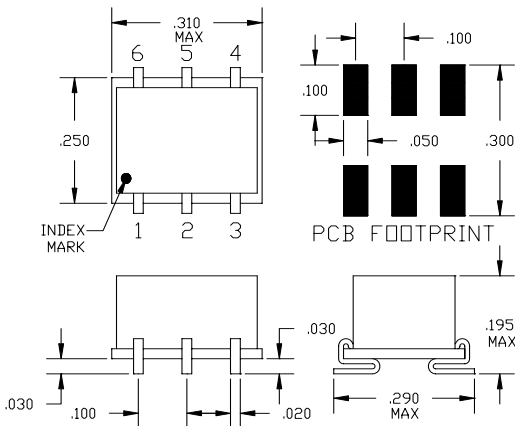
**Pin Out**

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

**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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