

Features

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

Description

The CPA-0501-510 coupler is 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.



SURFACE MOUNT COUPLER

Specifications

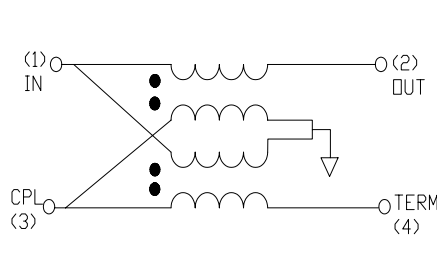
Parameter	Minimum	Typ	Maximum
Frequency Range (MHz)	5		500
Coupling (dB)	9.5	10	10.5
Mainline Loss (dB)		0.8	1.1
Directivity (dB)	20	30	
Return Loss (dB)		23	17.7

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

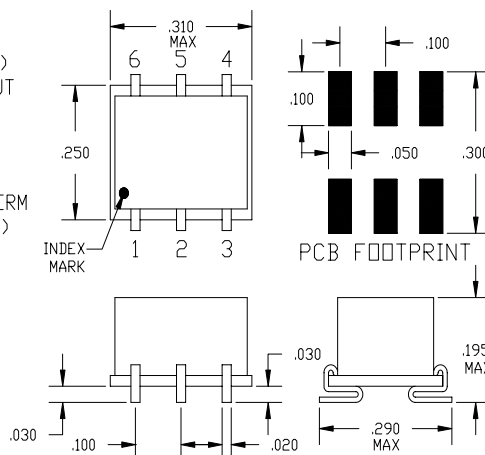
Absolute Maximum Ratings

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

Schematic



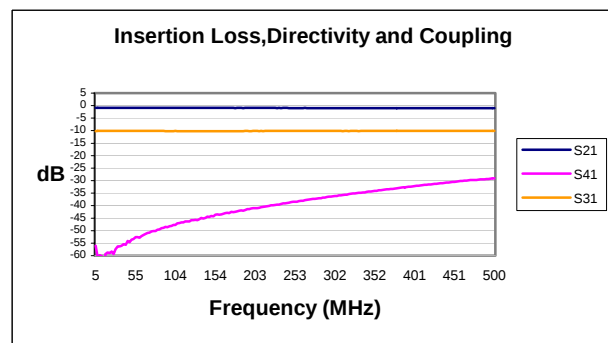
Package – S06



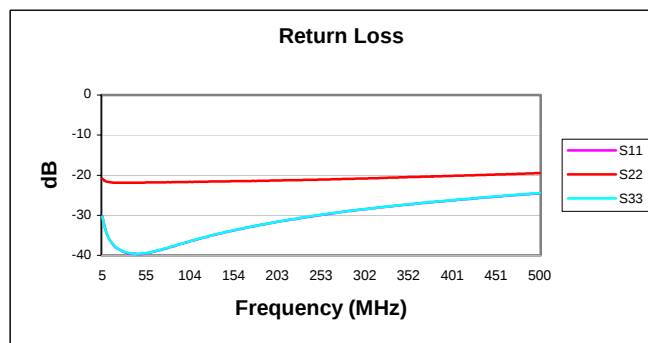
Pin Functions

Function	Pin
Input	1
Coupled	3
Output	6
Ground	2,5
Termination	4

Typical Test Data – Insertion Loss, Coupling, Directivity



Typical Test Data – Return Loss



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