RFMD
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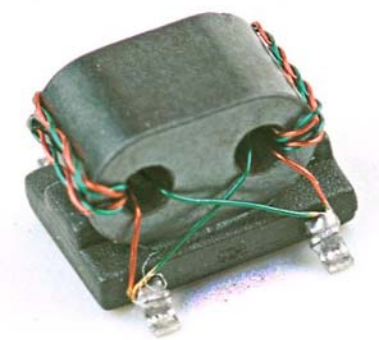
CPK-1001-716H

SURFACE MOUNT 16 dB COUPLER

RoHS Compliant and Pb-Free Product
Package: S01

Features

- Frequency Range 5 MHz to 1000 MHz
- Nominal Coupling 16 dB
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and -Reel
- 75Ω Characteristic Impedance



Product Description

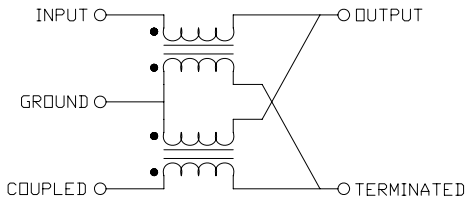
The CPK-1001-716H coupler is designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broad-band, wire-less and other communications systems. These units are built Lead-Free and RoHS compliant. S-Parameters are available on request.

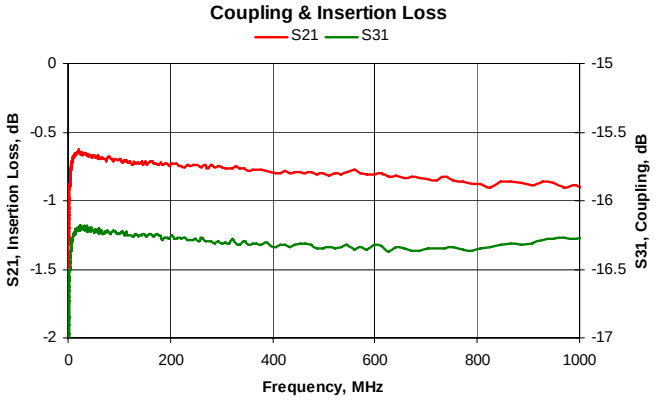
Specifications

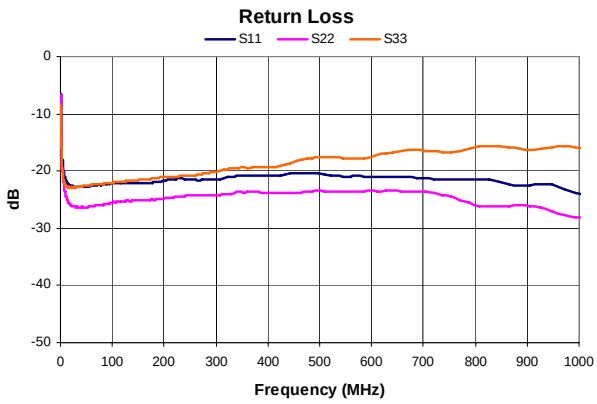
Parameter	Specification			Unit
	Min.	Typ.	Max.	
Frequency Range	5		1000	MHz
Nominal Coupling	15.5	16	16.5	dB
Coupling Flatness	-0.5		+0.5	dB
Mainline Loss		0.6	1.0	dB
Directivity	12	30		dB
Return Loss	14	25		dB

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

Schematic







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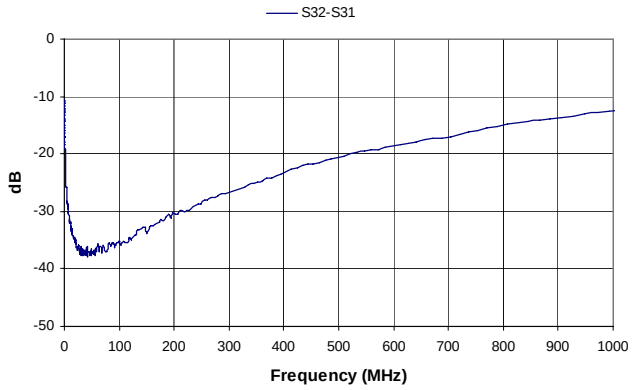
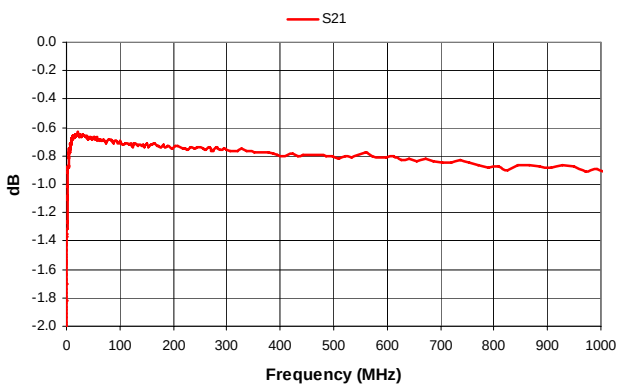
Directivity



Insertion Loss



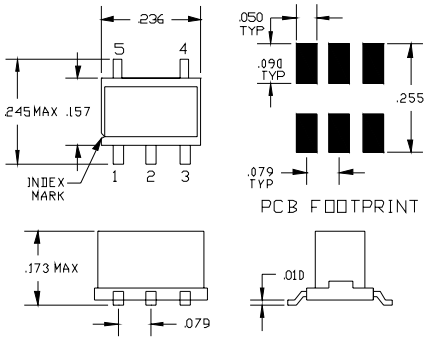
Pin Out

Pin	Name
1	Input
2	Ground
3	Coupled
4	Terminated
5	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 - S01



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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