RFMD
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RFCP4792

17dB SURFACE MOUNT COUPLER

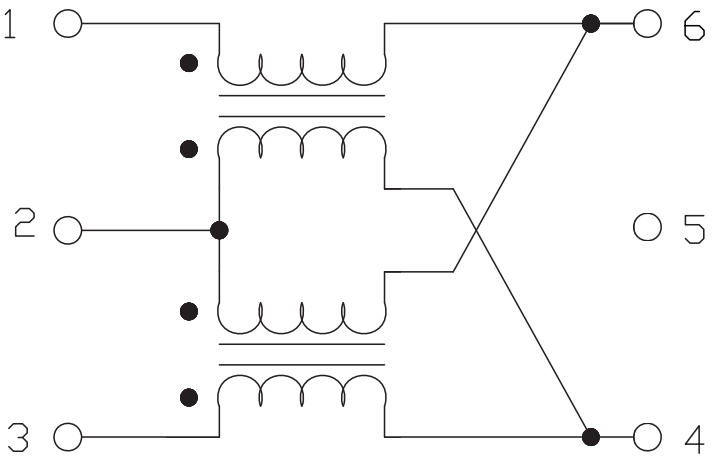
Package: S-18

Features

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

Applications

- Broadband/CATV
- Wireless



Functional Block Diagram

Product Description

The RFCP4792 Surface Mount 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. These units are built Lead-Free and RoHS compliant. S-Parameters are available on request.

Ordering Information

RFCP4792SQ	Sample bag with 25 pieces
RFCP4792SR	13" Sample Reel with 100 pieces
RFCP4792TR13	13" Reel with 1000 pieces

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	☐ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	☐ Si BJT	☐ LDMOS

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Absolute Maximum Ratings

Parameter	Rating	Unit
RF Power	2	W
Operating Temperature	-40 to +85	°C
Storage Temperature	-55 to +100	°C

Caution! ESD sensitive device.

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 (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					Typical values represent Mid-Band performance at 25 °C
Frequency Range	5		1000	MHz	
Nominal Coupling	16.5	17	17.5	dB	
Coupling Flatness	-0.65		+0.65	dB	
Mainline Loss		0.5	0.75	dB	5MHz to 500MHz
		0.75	1	dB	500MHz to 1000MHz
Directivity	15	20		dB	5MHz to 50MHz
	20	22		dB	50MHz to 500MHz
	10	14		dB	500MHz to 1000MHz
Input/Output Return Loss	18	24		dB	
Coupled Port Return Loss	12	20		dB	
Characteristic Impedance		75		Ω	

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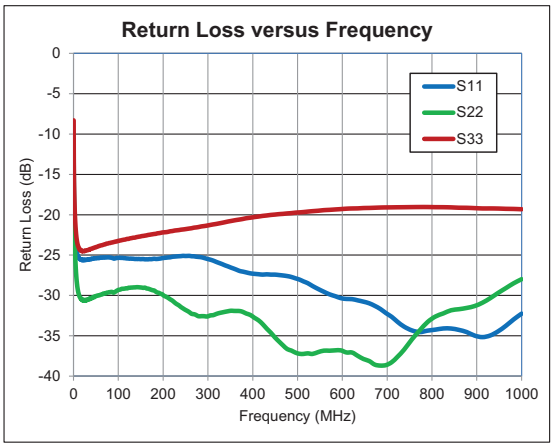
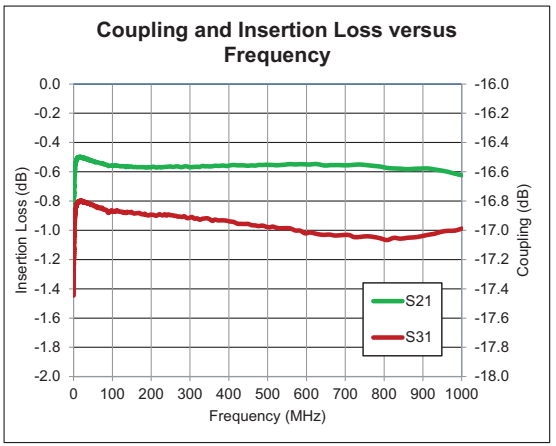
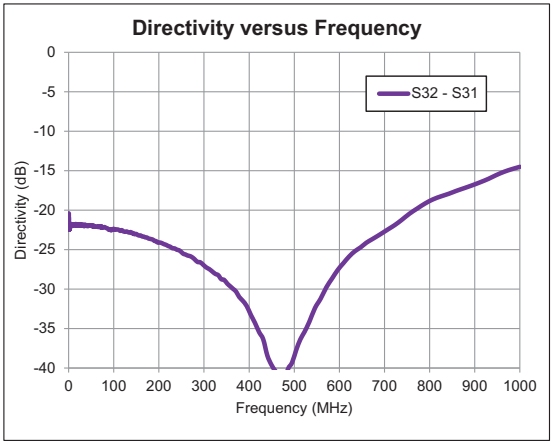
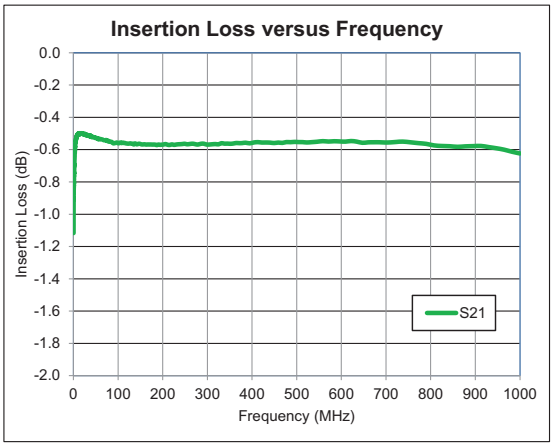
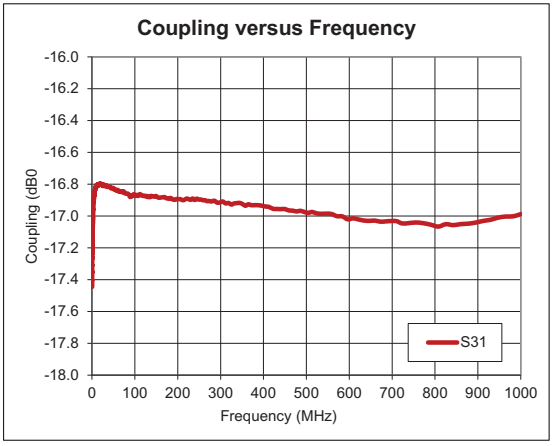
Typical Data









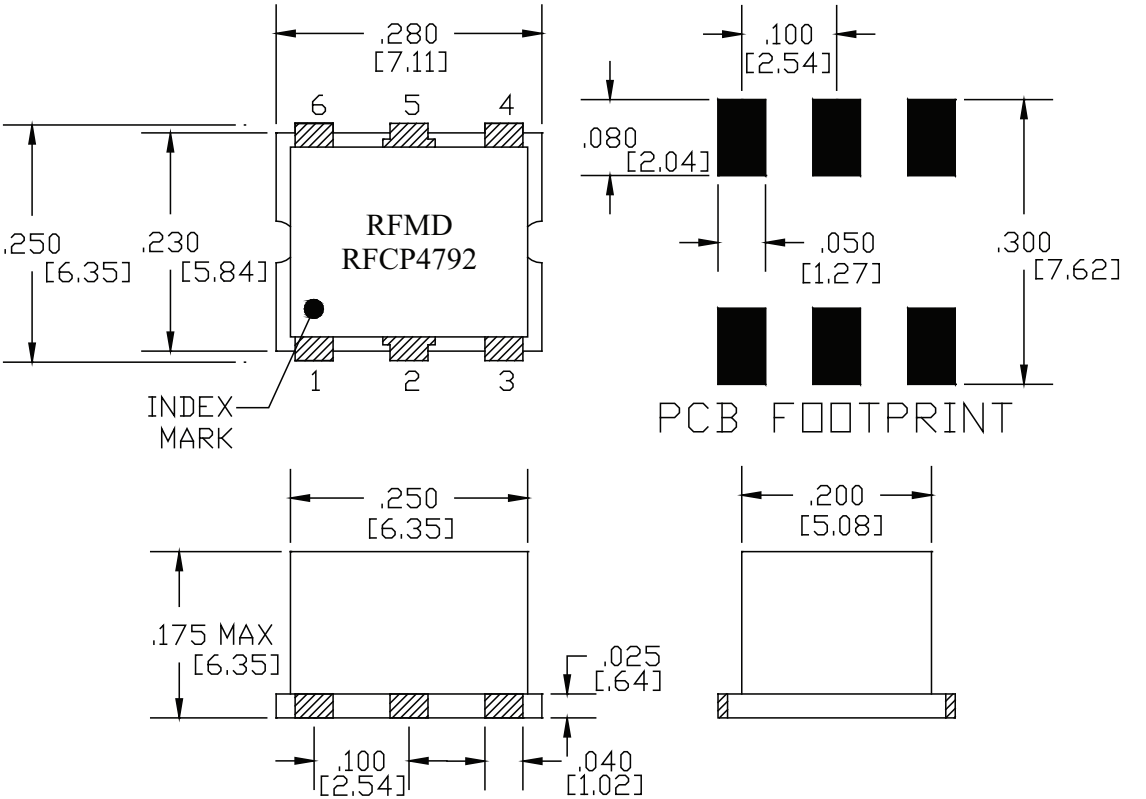


Pin Names and Description

Pin	Description
1	INPUT
2	GROUND
3	COUPLED
4	TERMINATED
5	NO CONNECT
6	OUTPUT

Package Drawing - S18

Dimensions in inches (millimeters)



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