

Package: S-18



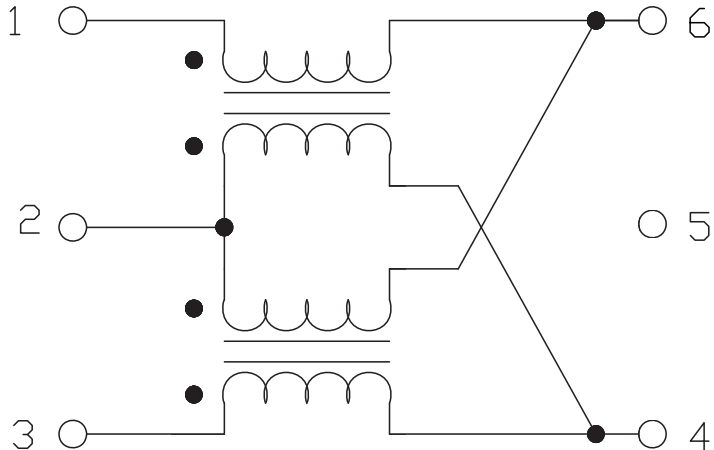
RFCP4792

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

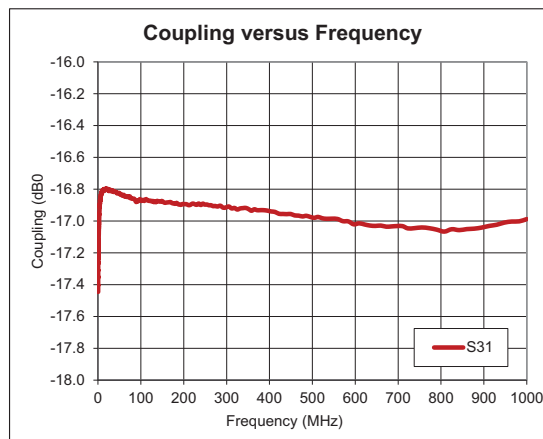
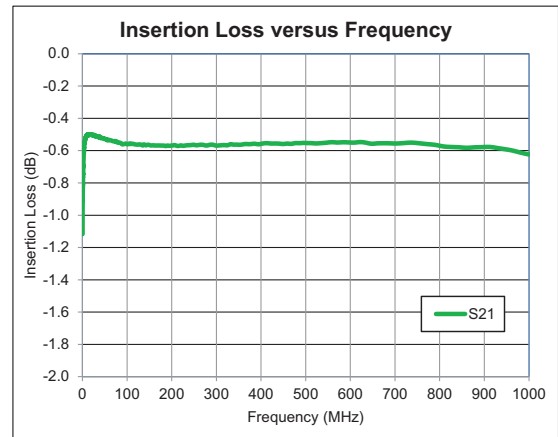
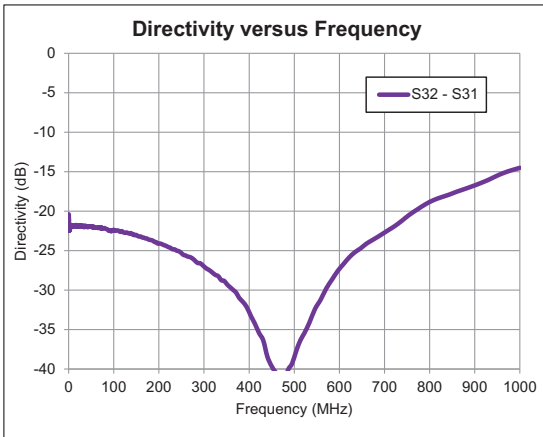
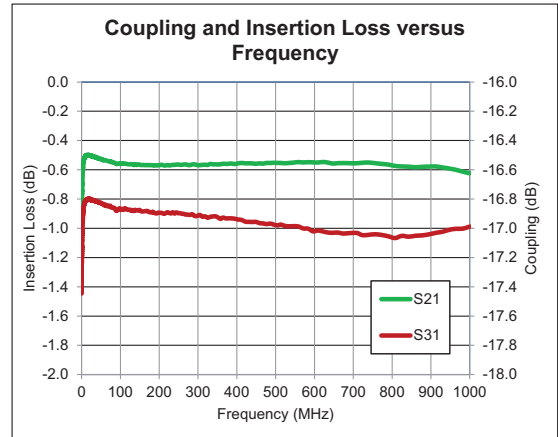
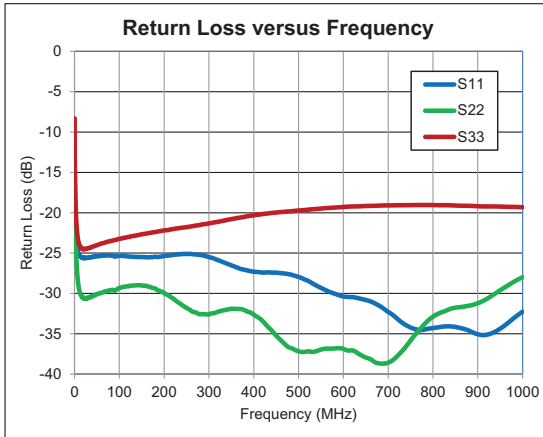
The RFCP4792 Surface Mount Coupler is designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broadband, wireless, and other communications systems. These units are built Lead-Free and RoHS compliant. S-Parameters are available on request.

| 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 | |

Absolute Maximum Ratings

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

Typical Data



Pin Names and Description

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



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.

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

Package Drawing - S18

Dimensions in inches (millimeters)

