

MRFCP0013

7 dB SMT COUPLER



RoHS Compliant and Pb-Free Product Package: S-20

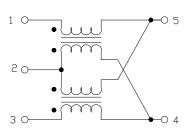


Features

- Frequency Range 5 -1200 MHz
- Low Cost and RoHS Compliant
- 7 dB Coupling
- Industry Standard SMT package
- Available in Tape-and -Reel
- 75 Ohm Characteristic Impedance

Applications

- Broadband
- Wireless Communications



Schematic

Product Description

The MRFCP0013 Coupler is designed for applications that require very 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 and feature welded wire construction for increased reliability. S-Parameters are available on request.

Specifications

| Parameter | Min. | Тур. | Max. | Unit | Condition |
|-------------------|------|------|------|------|--------------------------------------------------------|
| | | | | | Typical values represent Mid-Band performance at 25 °C |
| Frequency Range | 5 | | 1200 | MHz | |
| Nominal Coupling | 6.5 | 7.0 | 7.5 | dB | |
| Coupling Flatness | -0.5 | | +0.5 | dB | |
| Insertion Loss | | 1.6 | 2.8 | dB | |
| Directivity | 10 | 18 | | dB | |
| Return Loss | 14 | 21 | | dB | |
| Nominal Impedance | 75 | | Ohms | | |

Absolute Maximum Ratings

| Parameter | Rating | Unit |
|-----------------------|-------------|------|
| RF Power | 2 | Watt |
| 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 status based on EUDirective 2002/95/EC (at time of this document revision).

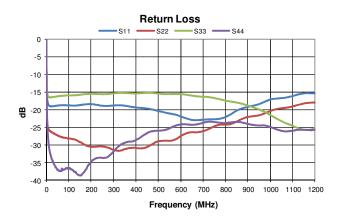
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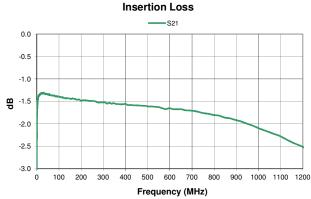


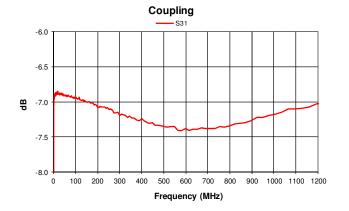
MRFCP0013

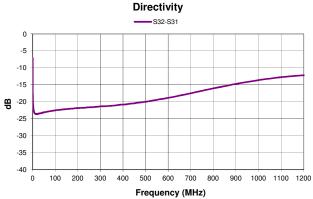
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Typical Data











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Pin Out

| Pin | Function |
|-----|------------------|
| 1 | Main Line Input |
| 2 | Ground |
| 3 | Coupled Output |
| 4 | Terminated |
| 5 | Main Line Output |

\$20 Package Drawing Dimensions in inches (millimeters)

