

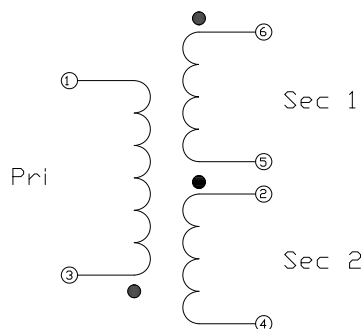


Features

- Frequency Range 5 MHz to 200 MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and-Reel
- 75 Ω Characteristic Impedance
- Flux Coupled, Dual Secondary

Applications

- Broadband/CATV
- Wireless



Schematic

Product Description

The RFXF2795 Transformer 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.

Optimum Technology Matching® Applied

- | | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> GaN HEMT |
| <input type="checkbox"/> GaAs MESFET | <input type="checkbox"/> Si BiCMOS | <input type="checkbox"/> Si CMOS | <input type="checkbox"/> BiFET HBT |
| <input type="checkbox"/> InGaP HBT | <input type="checkbox"/> SiGe HBT | <input type="checkbox"/> Si BJT | <input type="checkbox"/> LDMOS |

Absolute Maximum Ratings

| Parameter | Rating | Unit |
|-----------------------|-------------|------|
| RF Power | 2 | W |
| Operating Temperature | -45 to +85 | °C |
| Storage Temperature | -55 to +100 | °C |



Caution! ESD sensitive device.

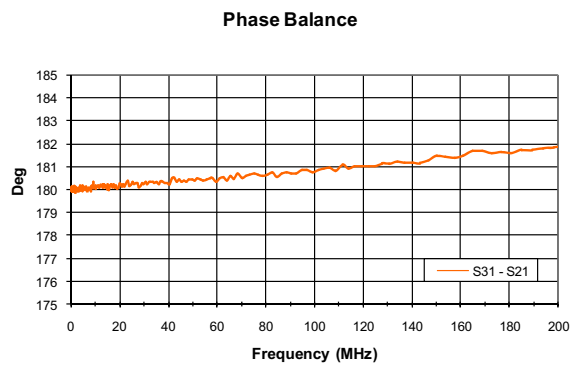
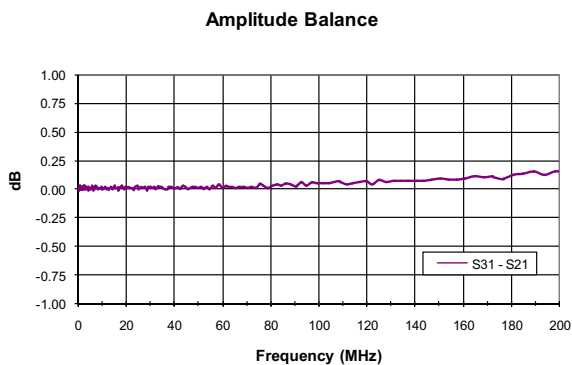
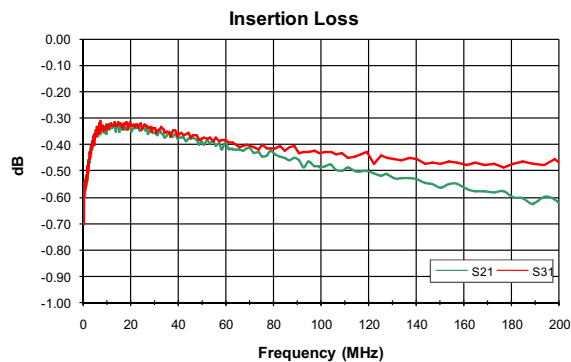
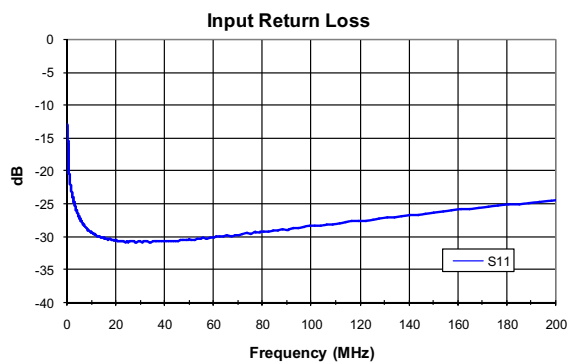
Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

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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 | | 200 | MHz | |
| Insertion Loss < 1dB | 5 | | 200 | MHz | |
| Insertion Loss < 2dB | | | | MHz | |
| Insertion Loss < 3dB | | | | MHz | |
| Amplitude Balance | | 0.2 | 0.5 | dB | |
| Phase Balance | | 2 | 5 | ° | |
| Impedance Ratio | 1:1.78 | | | | |
| Type - Flux Coupled | Unbalance to Balanced - Dual Secondary | | | | |

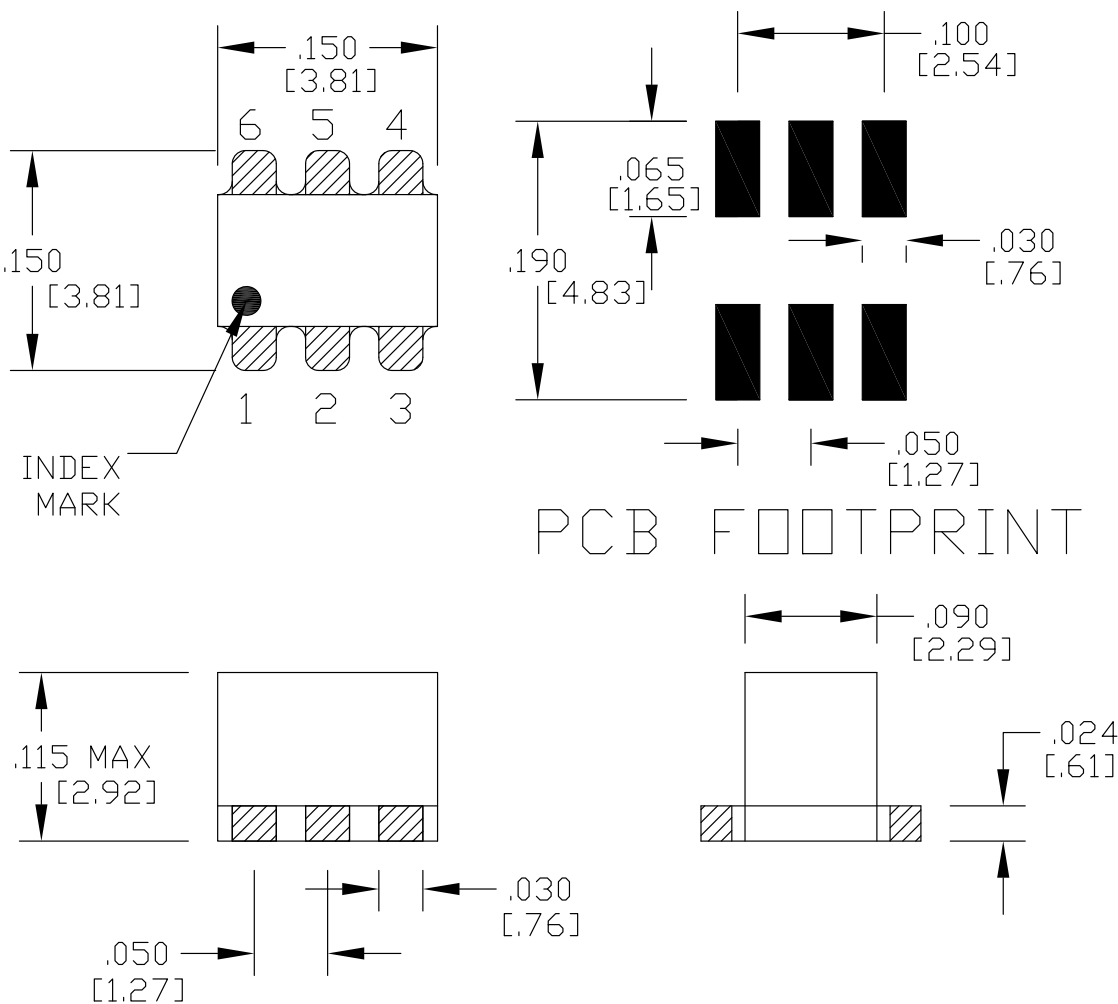


Pin Names and Description

| Pin | Function | Description |
|-----|-----------------|-------------|
| 1 | Primary | Input |
| 2 | Secondary 2 Dot | Output 2- |
| 3 | Primary Dot | Ground |
| 4 | Secondary 2 | Output 2+ |
| 5 | Secondary 1 | Output 1+ |
| 6 | Secondary 1 Dot | Output 1- |

Package Drawing - S19

Dimensions in inches (millimeters)



Ordering Information

| Ordering Code | Description | Reel Size | Package |
|---------------|---|-----------|-----------------|
| RFXF2795SB | 5 MHz to 200 MHz 1:1.78 SMT Transformer | N/A | 5-Piece bag |
| RFXF2795SQ | 5 MHz to 200 MHz 1:1.78 SMT Transformer | N/A | 25-Piece bag |
| RFXF2795SR | 5 MHz to 200 MHz 1:1.78 SMT Transformer | 13" | 100-Piece reel |
| RFXF27953TR13 | 5 MHz to 200 MHz 1:1.78 SMT Transformer | 13" | 1000-Piece reel |