

Package: S-20

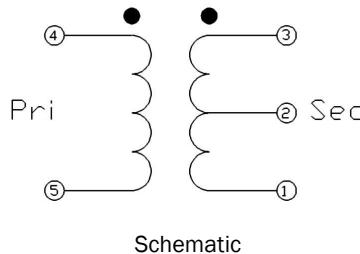


Features

- Frequency Range .3MHz to 200MHz
- Low Cost and RoHS Compliant
- Flux Coupled
- Industry Standard SMT package
- Available in Tape-and -Reel
- 50Ω Characteristic Impedance

Applications

- Broadband/CATV
- Wireless
- Smart Energy AMI



Schematic

Product Description

The RFXF2513 Transformer 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.

Ordering Information

Part Number	Description	Reel Size	Package
RFXF2513SB	0.3MHz to 200MHz 1:1 SMT Transformer	N/A	5-piece bag
RFXF2513SQ	0.3MHz to 200MHz 1:1 SMT Transformer	N/A	25-piece bag
RFXF2513SR	0.3MHz to 200MHz 1:1 SMT Transformer	13"	100 piece reel
RFXF2513TR13	0.3MHz to 200MHz 1:1 SMT Transformer	13"	1000 piece reel

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

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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

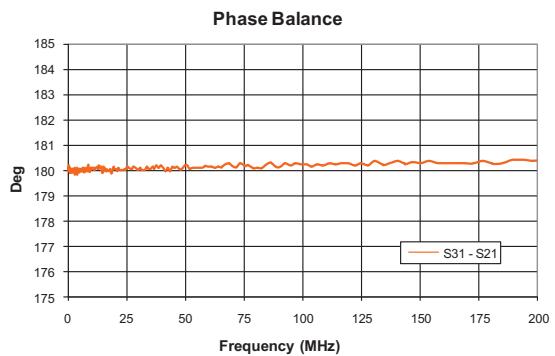
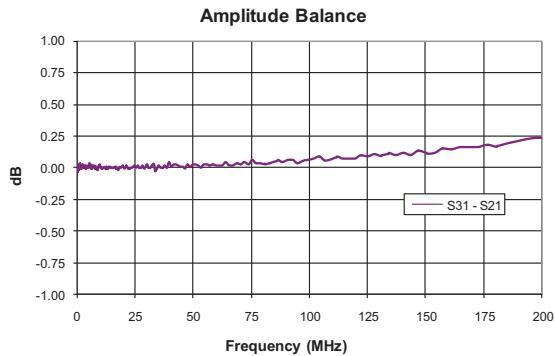
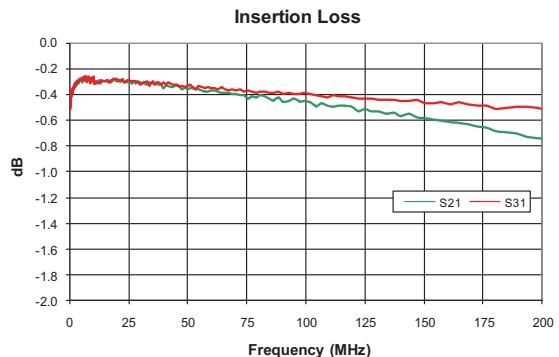
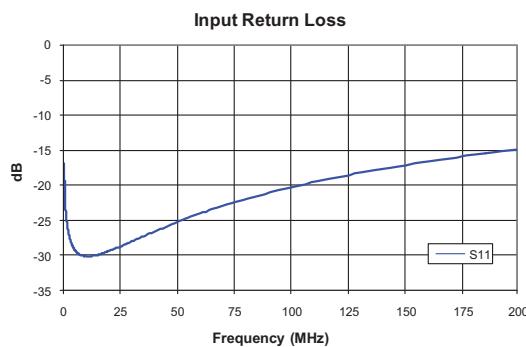
**Caution!** ESD sensitive device.

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 status based on EU Directive 2002/95/EC (at time of this document revision).

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Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Typical values represent Mid-Band performance at 25 °C					
Frequency Range	.3		200	MHz	
Insertion Loss <1 dB	.3		200	MHz	
Insertion Loss <2 dB	-		-	MHz	
Insertion Loss <3 dB	-		-	MHz	
Amplitude Balance, .3MHz to 50MHz			0.1	dB	
Amplitude Balance, .3MHz to 200MHz			0.5	dB	
Phase Balance, .3MHz to 50MHz			1	°	
Phase Balance, .3MHz to 200MHz			5	°	
Input Return Loss	10			dB	
Impedance Ratio	1:1				
Type - Flux Coupled	Unbalanced to Balanced				

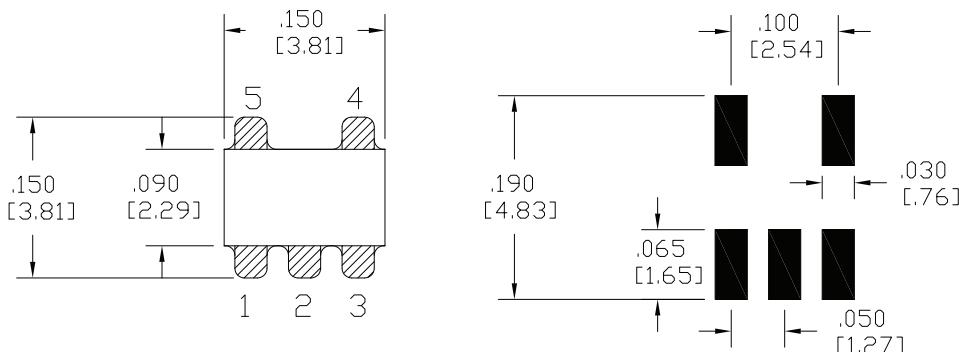


Pin Out

Pin	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

Package Drawing - S20

Dimensions in inches (millimeters)

**PCB FOOTPRINT**