

Package: S-20

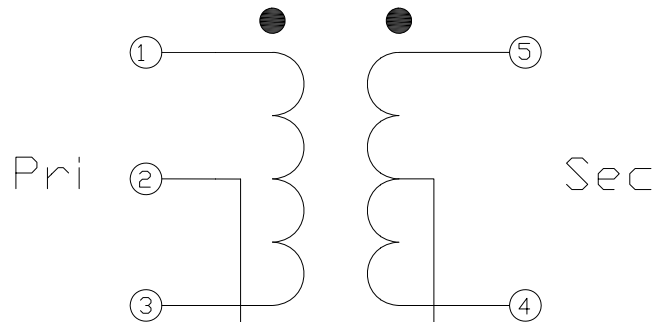


Features

- Frequency Range .5MHz to 550MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and-Reel
- 50Ω Characteristic Impedance
- Flux Coupled

Applications

- Broadband/CATV
- Wireless



Schematic

Product Description

The RFXF3593 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. 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		550	MHz	
Insertion Loss < 1dB	2		200	MHz	
Insertion Loss < 1.5dB	.5		550	MHz	
Amplitude Balance		0.2	1.0	dB	
Phase Balance		2	5	°	Nominal Phase Difference is 180 °
Input Return Loss	10	22		dB	
Impedance Ratio, P:S	1:1.5				
Type - Flux Coupled	Unbalance to Balanced				

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.

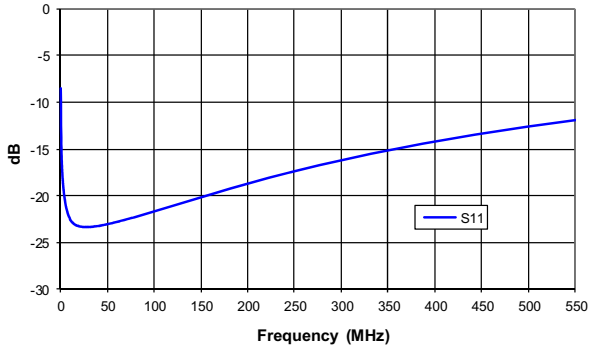
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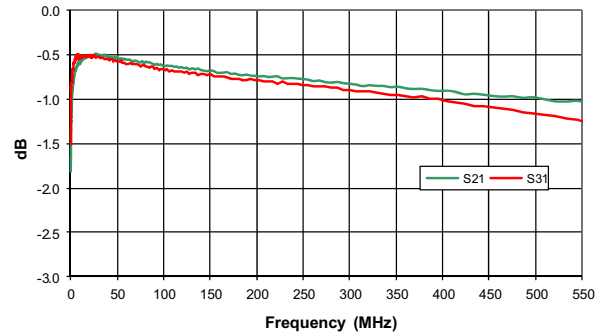
RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

Typical Data

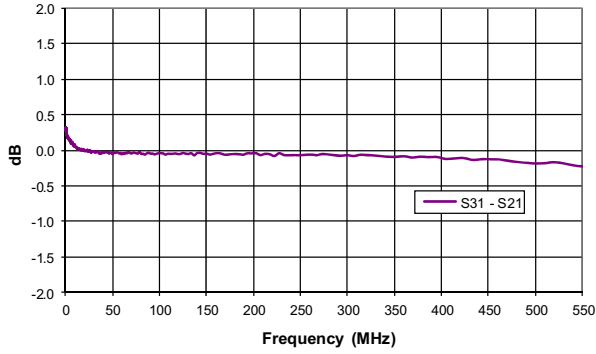
Input Return Loss



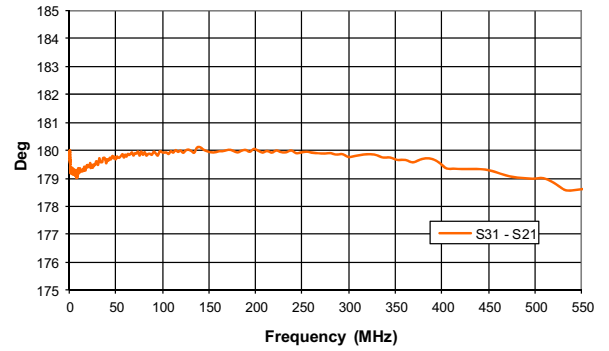
Insertion Loss



Amplitude Balance



Phase Balance

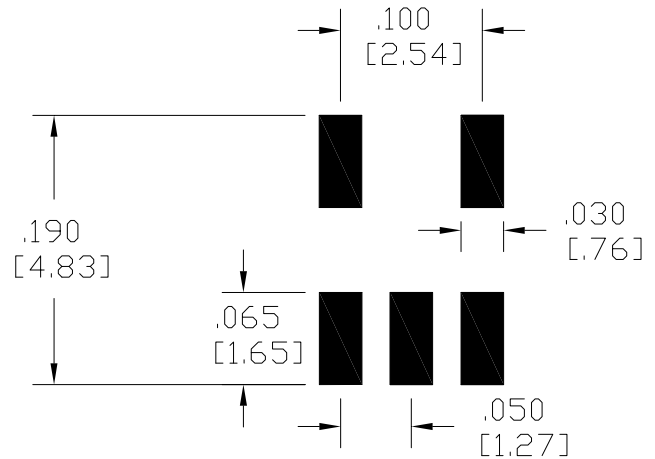
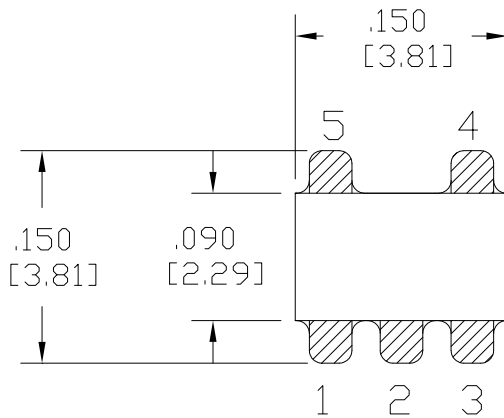


Pin Names and Description

Pin	Name	Description
1	PRIMARY DOT	Input (Port 1)
2	SECONDARY CT	Ground
3	PRIMARY	Ground
4	SECONDARY	Output (Port 3)
5	SECONDARY DOT	Output (Port 2)

Package Drawing - S20

Dimensions in inches (millimeters)



PCB FOOTPRINT

