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RFXF2553

1:4 SMT TRANSFORMER

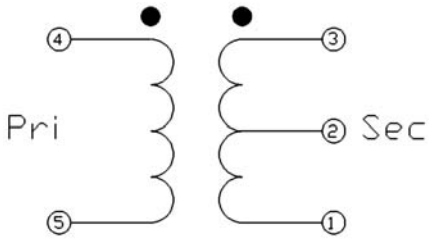
RoHS Compliant and Pb-Free Product
Package: S-20

Features

- Frequency Range 1 -350MHz
- Low Cost and RoHS Compliant
- Flux Coupled
- Industry Standard SMT package
- Available in Tape-and -Reel
- 50Ω Characteristic Impedance

Applications

- Broadband
- Wireless Communications



Schematic

Product Description

The RFXF2553 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
RFXF2553SQ	1-350Mhz 1:4 SMT Transformer	N/A	25+ pcs Bag
RFXF2553SR	1-350Mhz 1:4 SMT Transformer	13”	100+ pcs/Reel

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	☐ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	☐ Si BJT	☐ 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 EUDirective2002/95/EC (at time of this document revision).

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
					Typical values represent Mid-Band performance at 25 °C
Frequency	1		350	MHz	
Insertion Loss <1 dB	1		350	MHz	
Insertion Loss <2 dB	-		-	MHz	
Insertion Loss <3 dB	-		-	MHz	
Amplitude Balance		0.2	0.5	dB	
Phase Balance		2	5	°	
Impedance Ratio	1:4				
Type	Unbalanced to Balanced				

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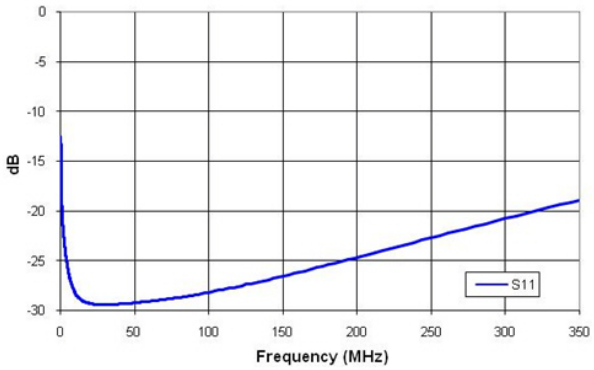
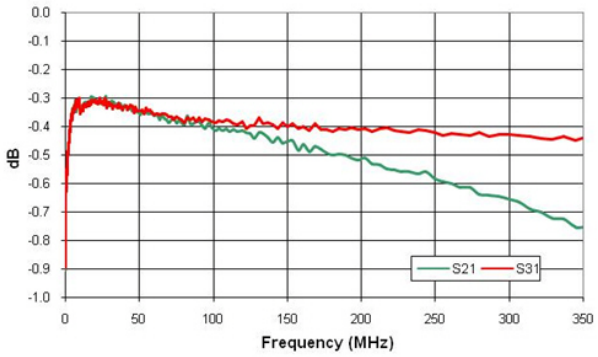
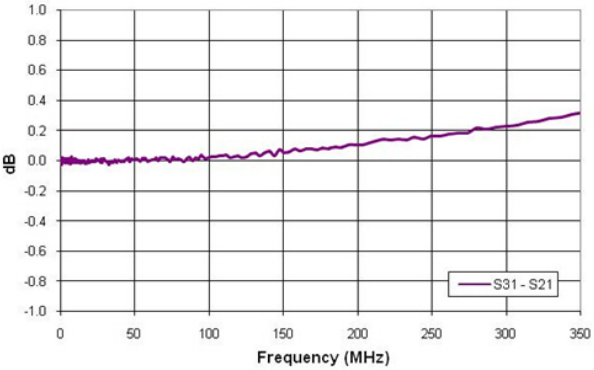
Input Return Loss



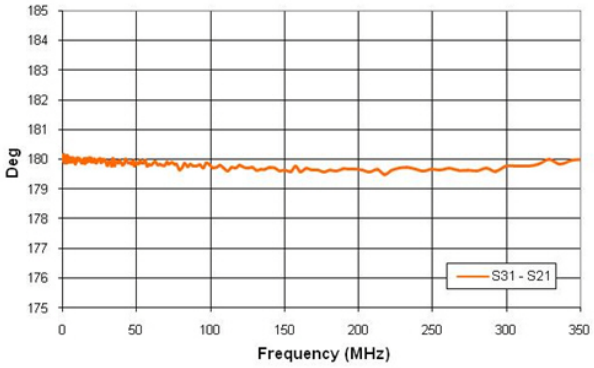
Insertion Loss



Amplitude Balance



Phase Balance



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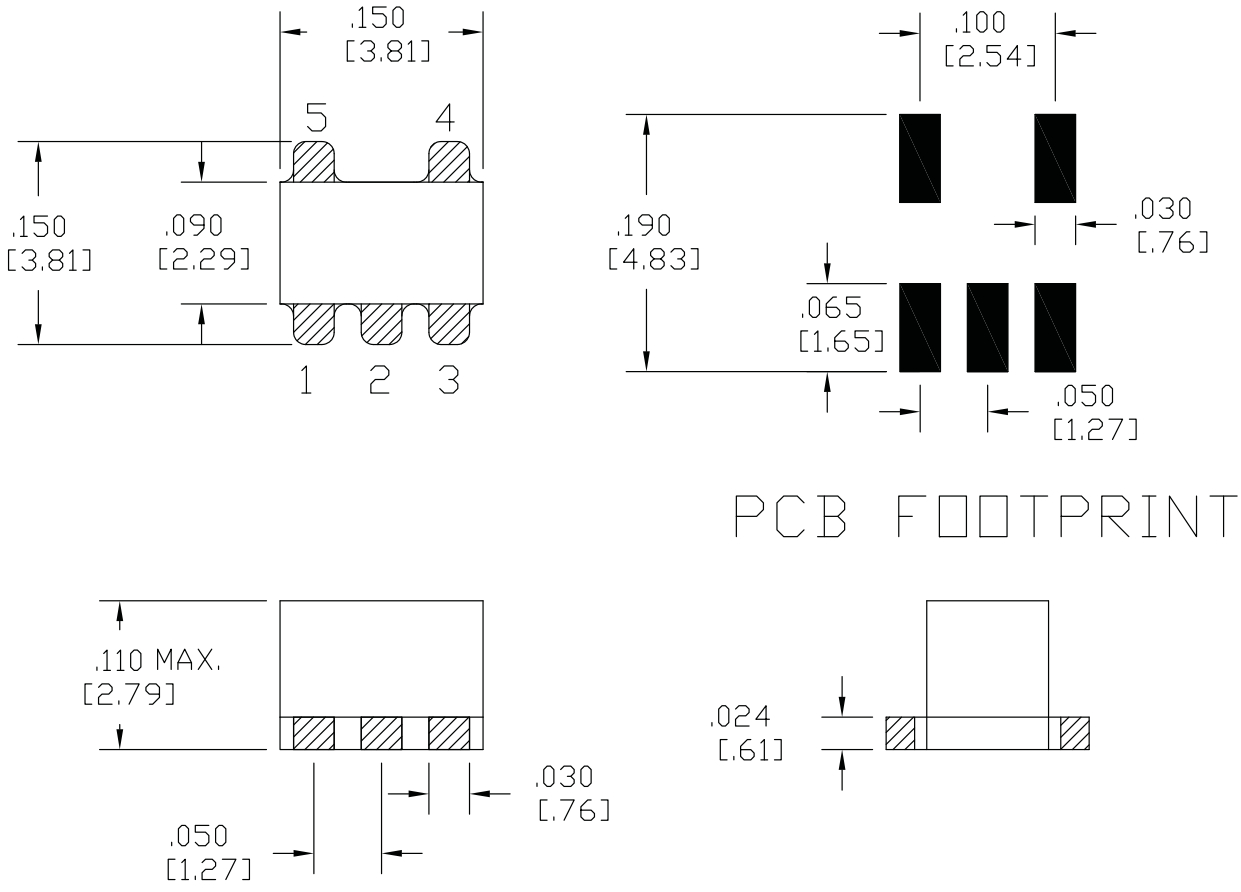
Pin Out

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

S20 Package Drawing

Dimensions in inches (millimeters)



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