



Package: S-20C

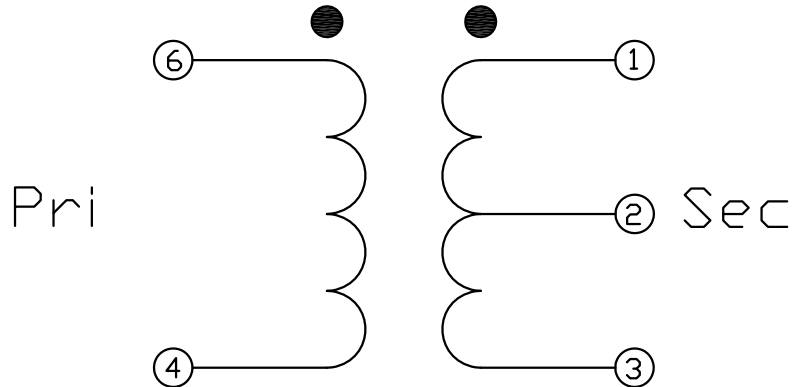


Features

- Frequency Range 5MHz to 100MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and-Reel
- 50Ω Characteristic Impedance
- Flux Coupled

Applications

- Broadband/CATV
- Wireless



Functional Block Diagram

Product Description

The RFXF0014 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.

Ordering Information

RFXF0014SQ	Sample bag with 25 pieces
RFXF0014SR	13" Sample reel with 100 pieces
RFXF0014TR13	13" Reel with 1000 pieces

Optimum Technology Matching® Applied

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|--------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| <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 | |

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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.

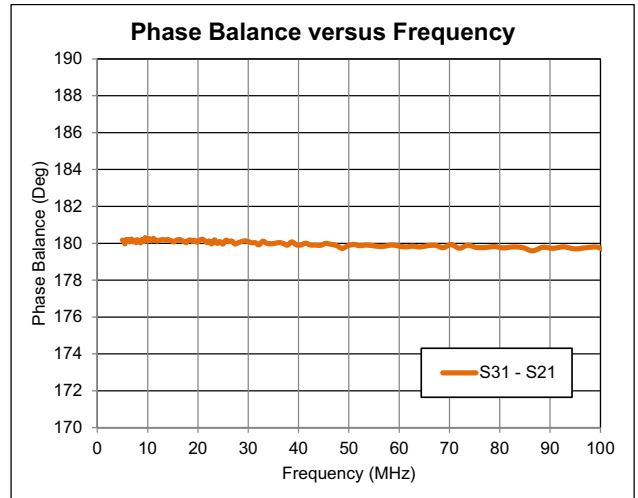
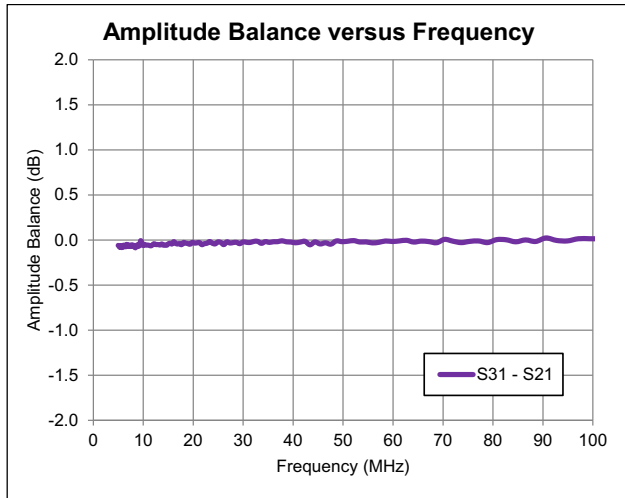
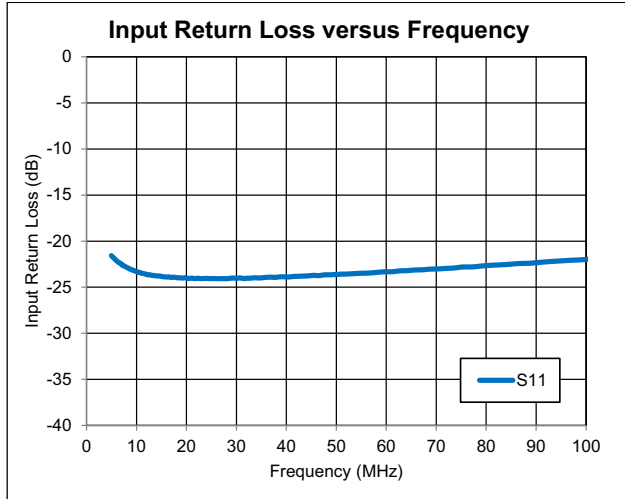
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RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					Typical values represent Mid-Band performance at 25 °C
Frequency Range	5		100	MHz	
Insertion Loss		0.5	0.8	dB	
Amplitude Balance		0.2	0.5	dB	
Phase Balance		1	3	Deg	Nominal Phase Difference is 180°
Input Return Loss	18	23		dB	
Impedance Ratio, P:S	1:1.5				
Type - Flux Coupled	Unbalance to Balanced				

Typical Data

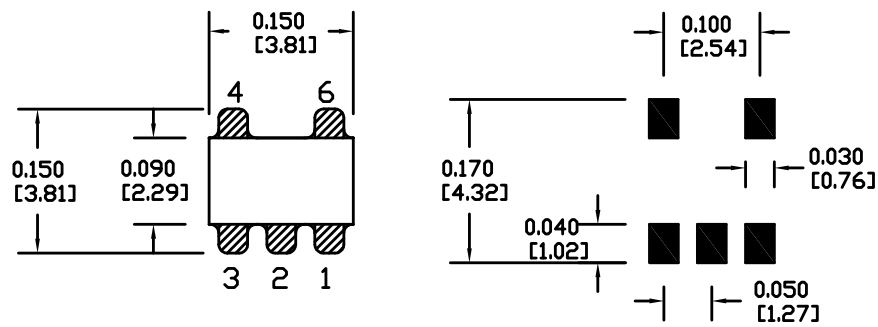


Pin Names and Descriptions

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

Package Drawing - S20C

Dimensions in inches (millimeters)



MIN PCB FOOTPRINT

