



Package: S-20C

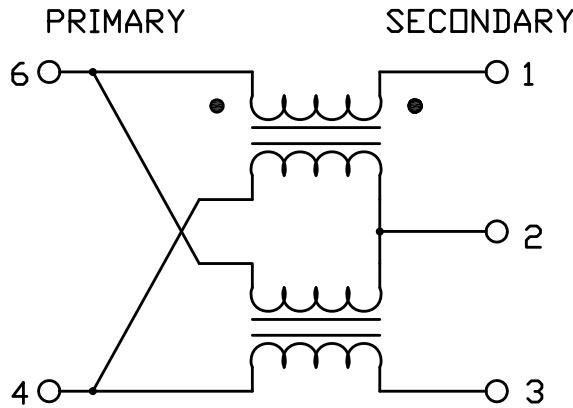


## Features

- Frequency Range 5MHz to 1000MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and-Reel
- 50Ω Characteristic Impedance  
Can be used in 50Ω and 75Ω systems
- Transmission Line Type

## Applications

- Broadband/CATV
- Wireless



Functional Block Diagram

## Product Description

The RFXF0016 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

RFXF0016SQ	Sample bag with 25 pieces
RFXF0016SR	13" Sample reel with 100 pieces
RFXF0016TR13	13" Reel with 1000 pieces

## 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	

RF MICRO DEVICES®, RFMD®, Optimum Technology Matching®, Enabling Wireless Connectivity™, PowerStar®, POLARIS™ TOTAL RADIO™ and UltimateBlue™ are trademarks of RFMD, LLC. BLUETOOTH is a trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed for use by RFMD. All other trade names, trademarks and registered trademarks are the property of their respective owners. ©2012, RF Micro Devices, Inc.

## 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.

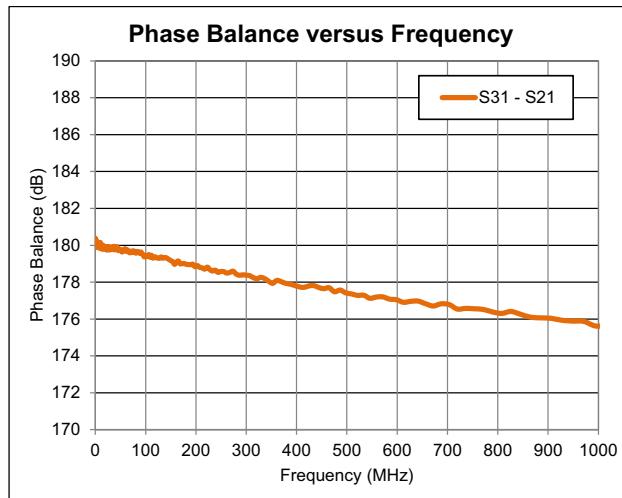
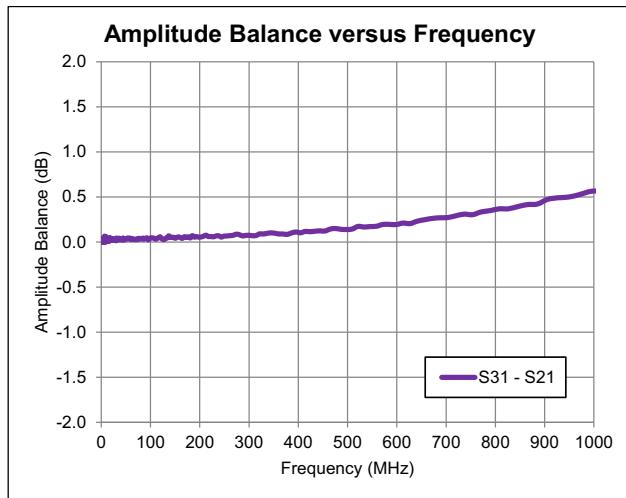
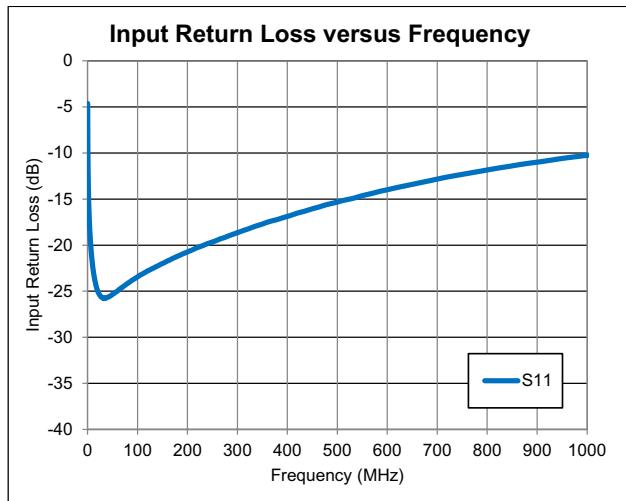
The information in this publication is believed to be accurate and reliable. However, no responsibility is assumed by RF Micro Devices, Inc. ("RFMD") for its use, nor for any infringement of patents, or other rights of third parties, resulting from its use. No license is granted by implication or otherwise under any patent or patent rights of RFMD. RFMD reserves the right to change component circuitry, recommended application circuitry and specifications at any time without prior notice.



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

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
<b>Overall</b>					Typical values represent Mid-Band performance at 25 °C
Frequency Range	5		1000	MHz	
Insertion Loss 1, 5MHz to 50MHz		0.6	0.8	dB	
Insertion Loss 1, 50MHz to 879MHz		0.7	1.5	dB	
Insertion Loss 1, 879MHz to 1000MHz		0.8	1.75	dB	
Amplitude Balance		0.2	1	dB	
Phase Balance, 5MHz to 879MHz		2	8	Deg	Nominal Phase Difference is 180°
Phase Balance, 879MHz to 1000MHz		2	12	Deg	
Input Return Loss	8	17		dB	
Impedance Ratio, P:S	1:4				
Type - Transmission Line	Unbalance to Balanced				

## Typical Data

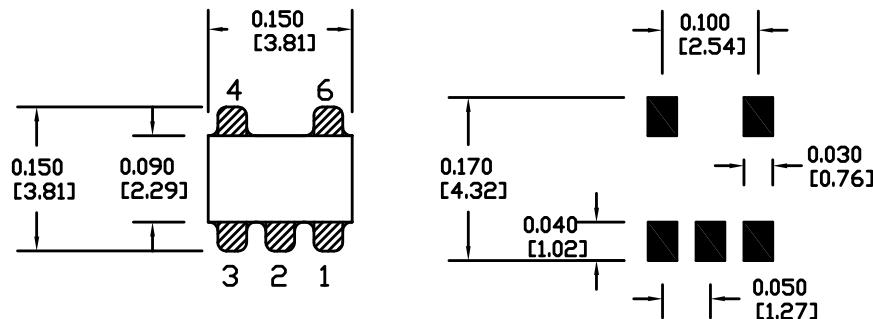


## Pin Names and Descriptions

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

## Package Drawing - S20C

Dimensions in inches (millimeters)



## MIN. PCB FOOTPRINT

