RFMD
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RFXF0016

1:4 SMT TRANSFORMER

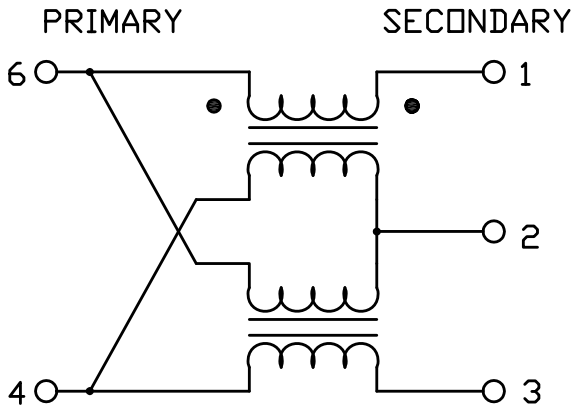
Package: S-20C

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

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	☐ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	☐ 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.

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		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				

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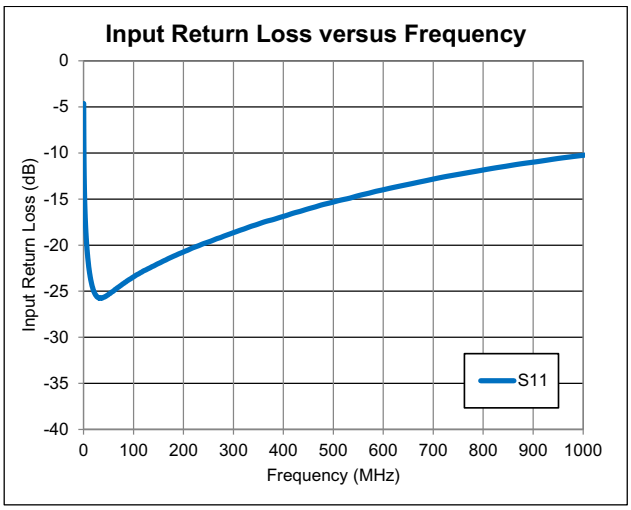
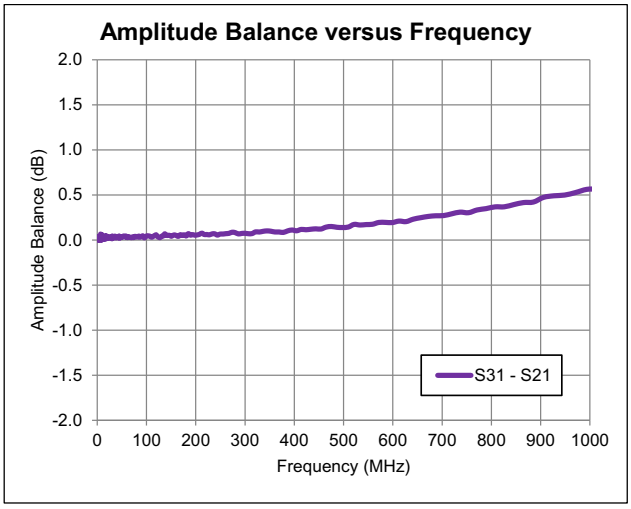
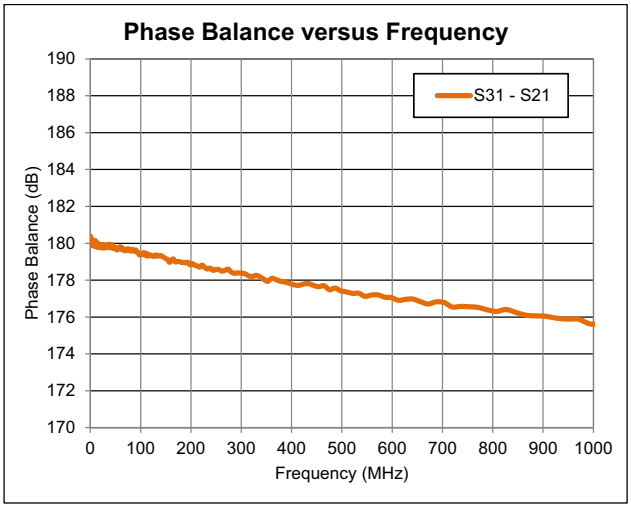
Typical Data







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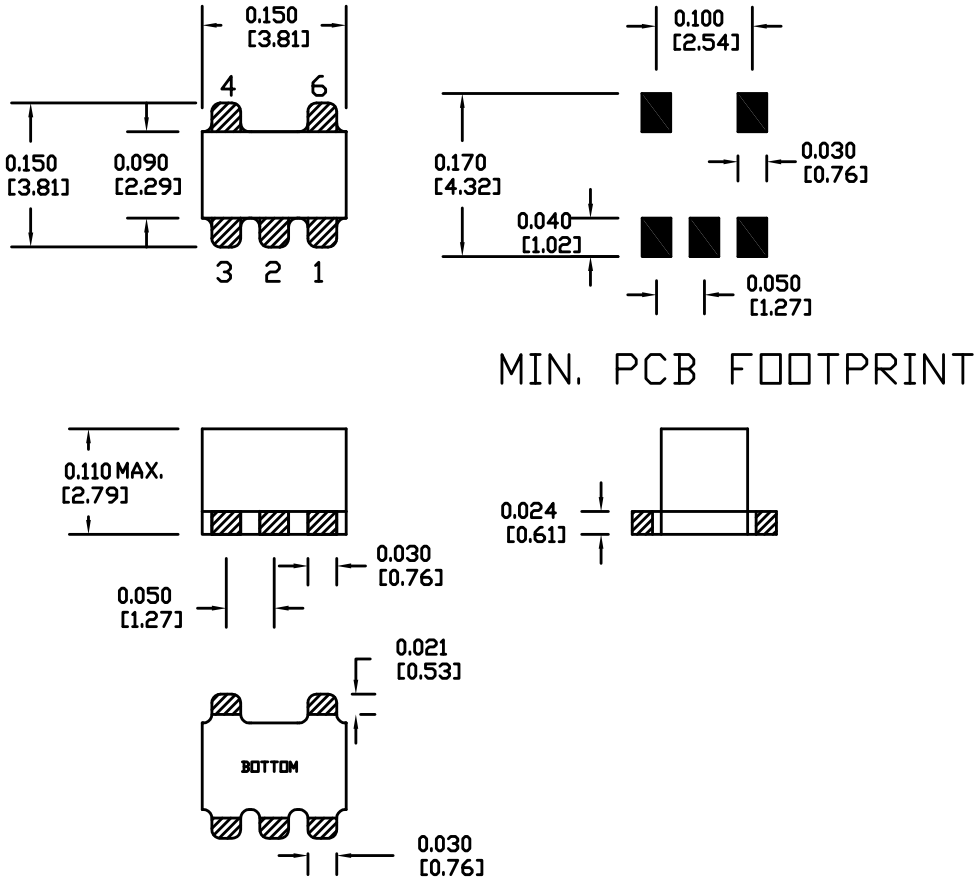
Pin Names and Descriptions

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

Package Drawing - S20C

Dimensions in inches (millimeters)



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