

RFXF5743

1:3 SMT TRANSFORMER

Package: S-20



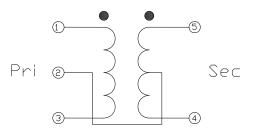


Features

- Frequency Range 5 MHz to 1200 MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and-Reel
- 75Ω Characteristic Impedance
- Flux Coupled

Applications

- Broadband/CATV
- Wireless



Schematic

Product Description

The RFXF5743 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.

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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RFXF5743



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.

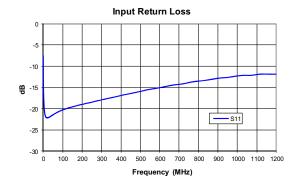
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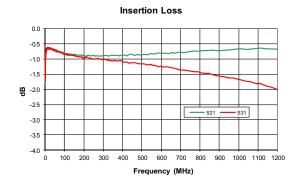


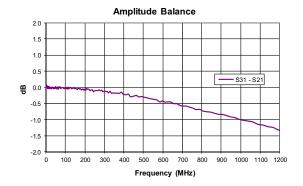
RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

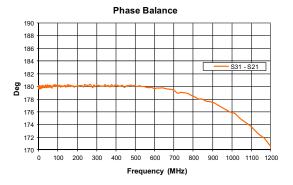
Parameter	Specification		Unit	Condition		
Parameter	Min.	Тур.	Max.	Unit	Condition	
Overall					Typical values represent Mid-Band performance at 25 °C	
Frequency Range	5		1200	MHz		
Insertion Loss<1dB	5		300	MHz		
Insertion Loss<2dB	5		1200	MHz		
Insertion Loss<3dB				MHz		
Amplitude Balance 5 MHz to 500 MHz		0.3	0.5	dB		
Amplitude Balance 5 MHz to 1200 MHz		0.5	1.5	dB		
Phase Balance 5MHz to 500MHz		1	2	0	Nominal Phase Difference is 180°	
Phase Balance 5 MHz to 1200 MHz		2	15	0	Nominal Phase Difference is 180°	
Impedance Ratio		1	.:3			
Type - Flux Coupled		Unbalance	to Balanced			











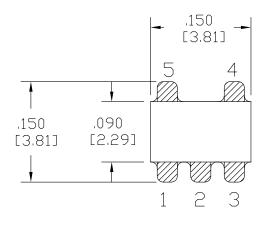


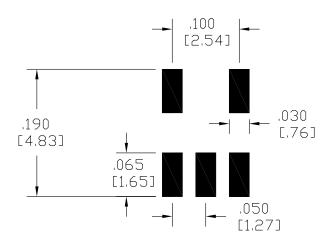
Pin Names and Description

Pin	Function	Description
1	Primary Dot	Input.
2	Secondary CT	Ground.
3	Primary	Ground.
4	Secondary	Output 2.
5	Secondary	Output 1.
	Dot	

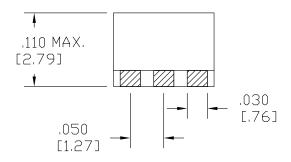
Package Drawing - S20

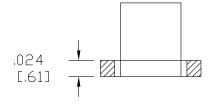
Dimensions in inches (millimeters)





PCB FOOTPRINT









Ordering Information

Ordering Code	Description	Reel Size	Package
RFXF5743SB	5MHz to 1200MHz 1:3 SMT Transformer	N/A	5-Piece bag
RFXF5743SQ	5MHz to 1200MHz 1:3 SMT Transformer	N/A	25-Piece bag
RFXF5743SR	5 MHz to 1200 MHz 1:3 SMT Transformer	13"	100-Piece reel
RFXF5743TR13	5MHz to 1200MHz 1:3 SMT Transformer	13"	1000-Piece reel