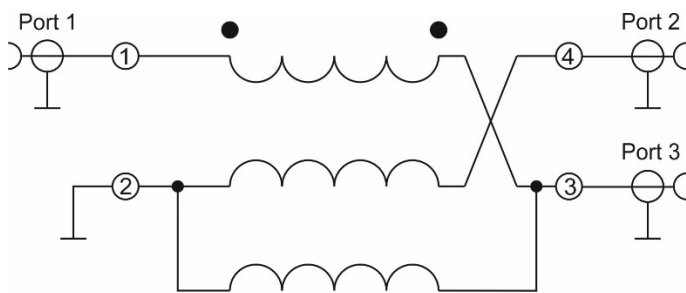


### Product Description

The RFXF0006H 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

### Functional Block Diagram



Package: SP5

### Product Features

- 45MHz to 1200MHz Operation
- Low Cost and RoHS Compliant
- Industry Standard SMT Package
- Available in Tape-and-Reel
- 75  $\Omega$  Characteristic Impedance
- Tertiary Balance Winding

### Applications

- Broadband / CATV
- Wireless

### Ordering Information

Part No.	Description
RFXF0006HSB	Sample bag with 5 pcs
RFXF0006HSQ	Sample bag with 25 pcs
RFXF0006HSR	13" Sample reel with 100 pcs
RFXF0006HTR13	13" Sample reel with 1000 pcs

## RFXF0006H Absolute Maximum Ratings

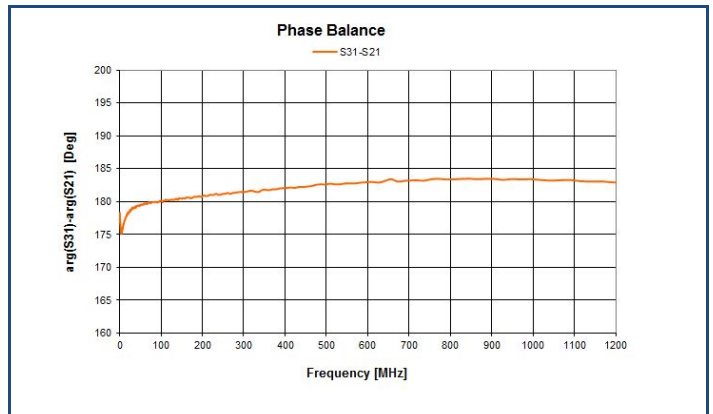
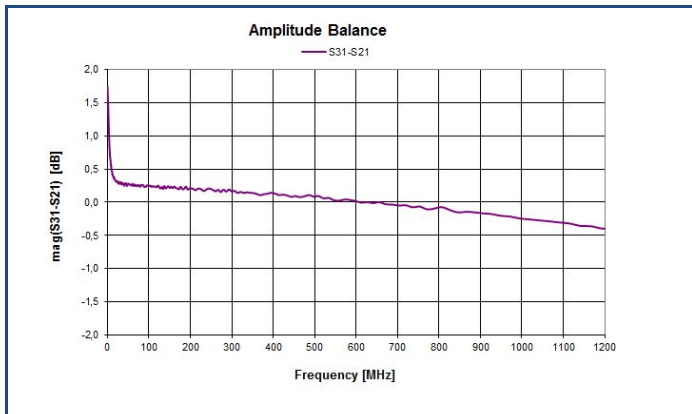
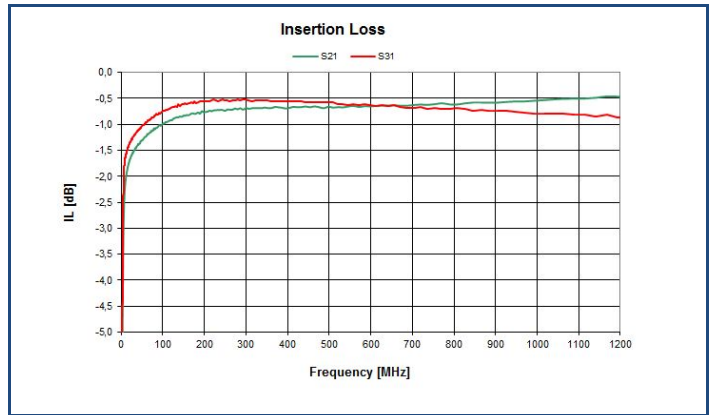
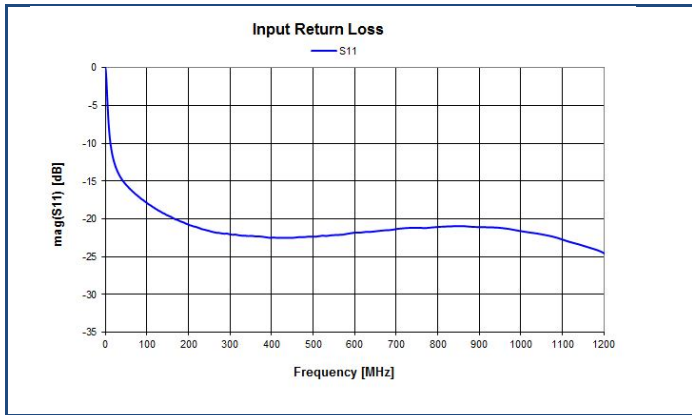
Parameter	Value / Range
RF Power	2 W
Storage Temperature Range	-55 to 100 °C
Operating Temperature Range	-40 to 100 °C

Operation of this device outside the parameter ranges given above may cause permanent damage.

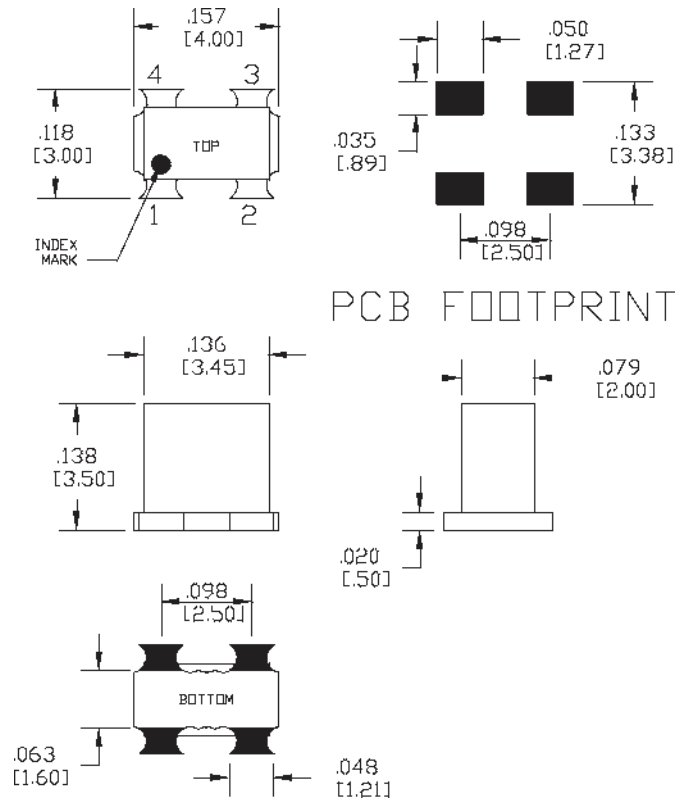
## Nominal Operating Parameters

Parameter	Test Conditions: $T_{MB}=25^{\circ}\text{C}$	Min	Typ	Max	Unit
General Performance. Typical values represent Mid Band performance at $T=25^{\circ}\text{C}$					
Operational Frequency Range	–	45	–	1200	MHz
Insertion Loss	$f_o=$ 45 to 100 MHz		1.3	1.5	dB
	$f_o=$ 100 to 600 MHz		0.9	1.1	
	$f_o=$ 600 to 1000 MHz		0.7	1.0	
	$f_o=$ 1000 to 1200 MHz		0.6	1.0	
Input Return Loss		12	15		dB
Amplitude Balance			0.4	0.6	dB
Phase Balance	Nominal Phase Difference is 180°		4	5	°
Impedance Ratio		1:1			
Type - Transmission Line		Unbalanced to Balanced			

Typical Performance: T=25°C unless otherwise noted



Package Outline, Pin Out and Branding Drawing (Dimensions in inches [mm])



Pin Names and Descriptions

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

## Handling Precautions

Parameter	Rating	Standard
ESD – Human Body Model (HBM)	N.A.	MIL-STD-1686



## RoHS Compliance

This part is compliant with 2011/65/EU RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) as amended by Directive 2015/863/EU.

## Contact Information

For the latest specifications, additional product information, worldwide sales and distribution locations:

Web: [www.qorvo.com](http://www.qorvo.com)

Tel: 1-844-890-8163

Email: [customer.support@qorvo.com](mailto:customer.support@qorvo.com)

## Important Notice

The information contained herein is believed to be reliable; however, Qorvo makes no warranties regarding the information contained herein and assumes no responsibility or liability whatsoever for the use of the information contained herein. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for Qorvo products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. **THIS INFORMATION DOES NOT CONSTITUTE A WARRANTY WITH RESPECT TO THE PRODUCTS DESCRIBED HEREIN, AND QORVO HEREBY DISCLAIMS ANY AND ALL WARRANTIES WITH RESPECT TO SUCH PRODUCTS WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Without limiting the generality of the foregoing, Qorvo products are not warranted or authorized for use as critical components in medical, life-saving, or life-sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Copyright 2017 © Qorvo, Inc. | Qorvo is a registered trademark of Qorvo, Inc.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Qorvo:

[RFXF0006HSR](#) [RFXF0006H-TR13](#)