

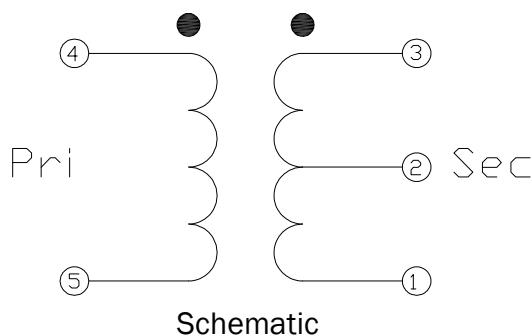


RoHS Compliant and Pb-Free Product  
Package: S-20



## Features

- Frequency Range 10 – 700 MHz
- Low Cost and **RoHS** Compliant
- Flux Coupled Type
- Industry Standard SMT package
- Available in Tape-and-Reel
- 50 Ohms Characteristic Impedance



## Applications

- Broadband
- Wireless Communications

## Product Description

The MRFXF4533 Transformer is designed for applications that require very 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 and feature welded wire construction for increased reliability. S-Parameters are available on request.

## Specifications

Parameter	Min.	Typ.	Max.	Unit	Condition
Typical values represent Mid-Band performance at 25 °C					
Frequency Range	10		700	MHz	
Insertion Loss, 10 - 400 MHz		0.6	0.8	dB	
Insertion Loss, 400 - 700 MHz		1.0	1.3	dB	
Amplitude Balance 10 - 400 MHz		0.2	0.8	dB	
Amplitude Balance 400 - 700 MHz		1.5	2.5	dB	
Phase Balance 10 - 400 MHz		3	7	°	
Phase Balance 400 - 700 MHz		6	10	°	
Input Return Loss 10 - 400 MHz	15	18		dB	
Input Return Loss 400 - 700 MHz	10	14		dB	
Impedance Ratio (P:S)	1:2				
Type - Flux Coupled	Unbalanced to Balanced				

## Absolute Maximum Ratings

Parameter	Rating	Unit
RF Power	2	Watt
Operating Temperature	-40 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.

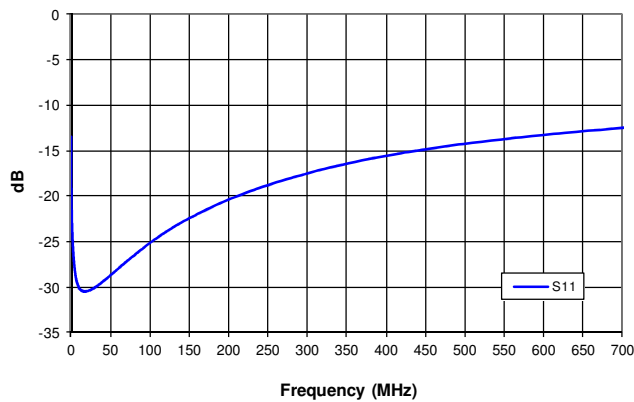
RoHS status based on EU Directive 2002/95/EC (at time of this document revision).

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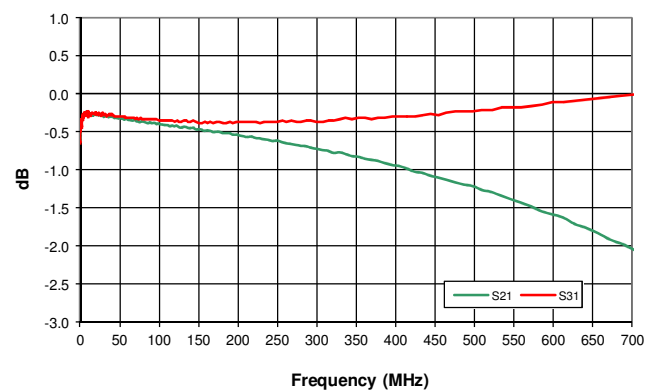


### Typical Data

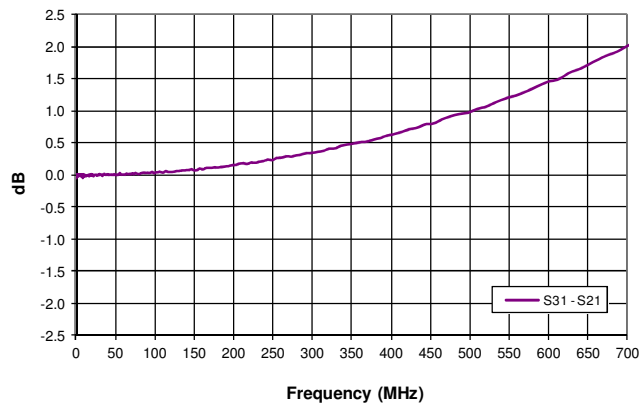
Input Return Loss



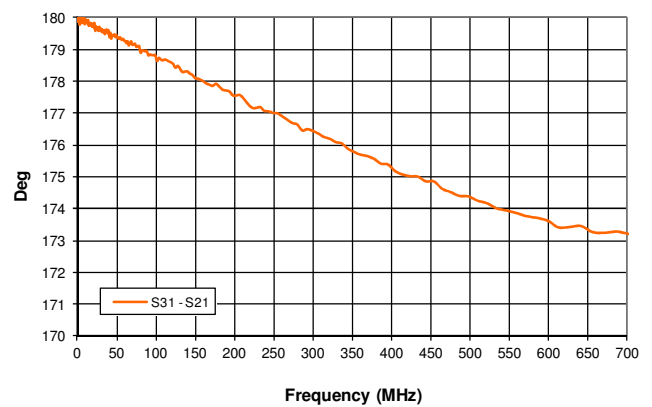
Insertion Loss



Amplitude Balance



Phase Balance

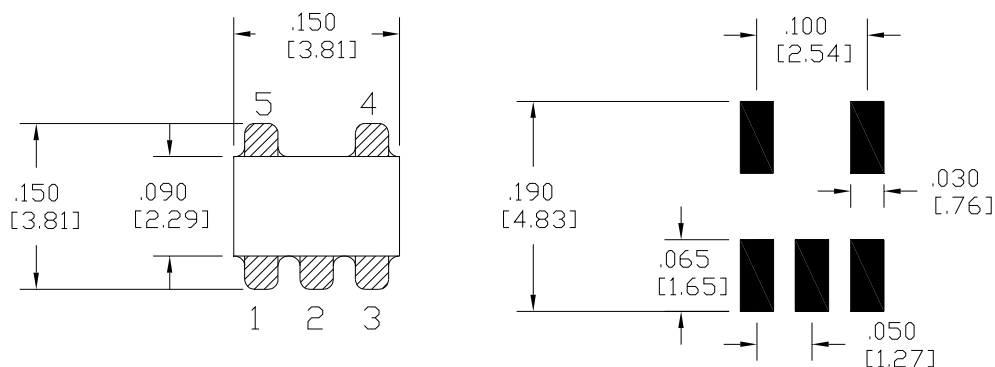


### Pin Out

Pin	Function
1	Secondary (Output 2)
2	Primary (Ground)
3	Secondary Dot (Output 1)
4	Primary Dot (Input)
5	Ground

### S20 Package Drawing

Dimensions in inches (millimeters)



### PCB FOOTPRINT

