



RoHS Compliant and Pb-Free Product
Package: SP8

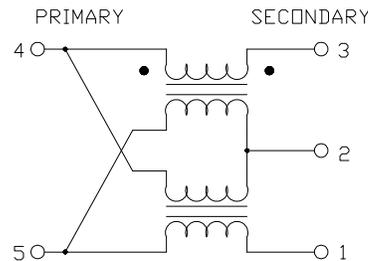


Features

- Frequency Range 45 – 1218 MHz
- Low Cost and **RoHS** Compliant
- Transmission Line
- Industry Standard SMT package
- Available in Tape-and -Reel
- 75 Ohms Characteristic Impedance

Applications

- Broadband
- Wireless Communications



Schematic

Product Description

The MRFXF0026 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	45		1218	MHz	
Insertion Loss (45 - 200 MHz)		1.6	2.0	dB	
Insertion Loss (200 -600 MHz)		1.3	1.5	dB	
Insertion Loss (600 - 1200 MHz)		1.5	2.3	dB	
Amplitude Balance (45 - 200 MHz)		0.3	0.8	dB	
Amplitude Balance (200-600 MHz)		0.4	0.8	dB	
Amplitude Balance (600 -1200 MHz)		0.4	0.8	dB	
Phase Balance (45 MHz)		1	3	°	Nominal Phase Difference is 180°
Phase Balance (45 - 200 MHz)		4	10	°	Nominal Phase Difference is 180°
Phase Balance (200- 600 MHz)		8	20	°	Nominal Phase Difference is 180°
Phase Balance (600- 1200 MHz)		14	26	°	Nominal Phase Difference is 180°
Input Return Loss (45- 200 MHz)	12	17		dB	
Input Return Loss (200- 700 MHz)	15	16		dB	
Input Return Loss (700- 1200 MHz)	12	15		dB	
Impedance Ratio	1:2.78				
Type	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.

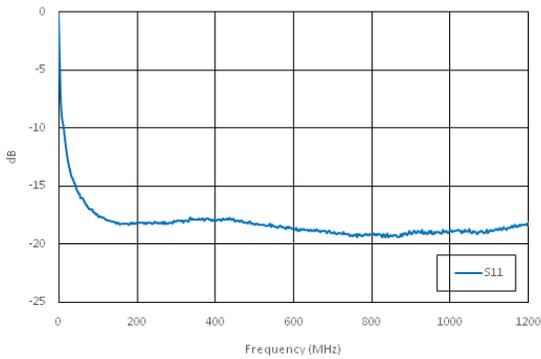
Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

RoHS status based on EUDirective2002/95/EC (at time of this document revision).

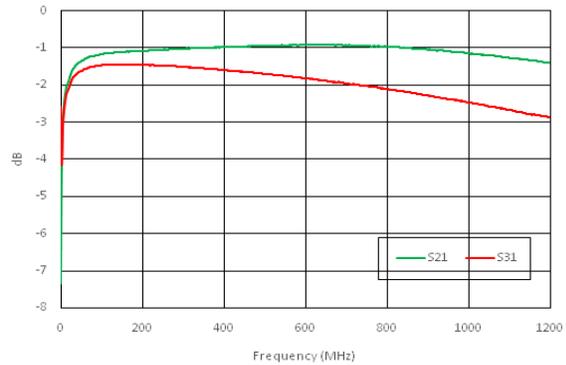
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Typical Data

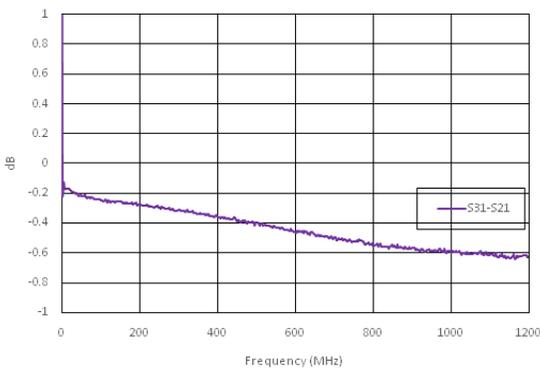
Input Return Loss



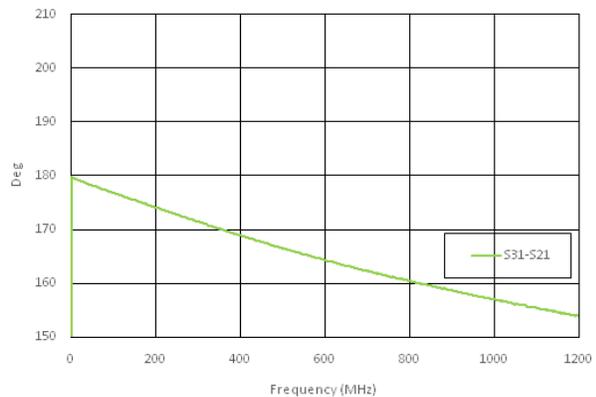
Insertion Loss



Amplitude Balance



Phase Balance

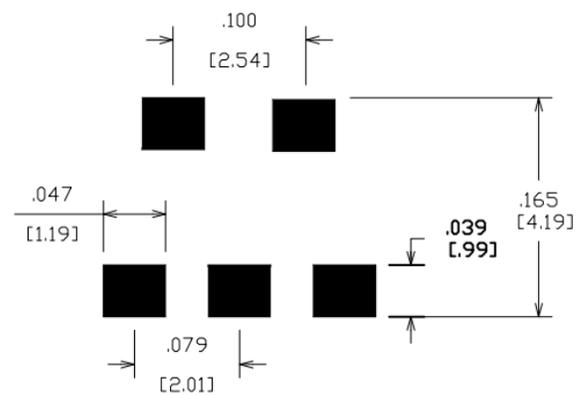
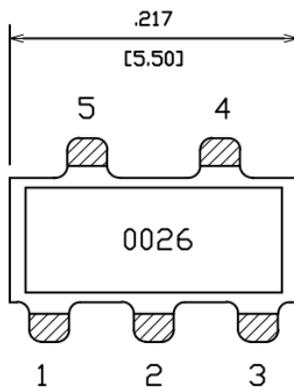


Pin Out

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

S26 Package Drawing

Dimensions in inches (millimeters)



PCB FOOTPRINT