

MRFXF0090

1:1 SMT TRANSFORMER

RoHS Compliant and Pb-Free Product Package: S22

Features

• Frequency Range 45-2000 MHz

Return Loss: 22 dB typ.Insertion Loss: 0.7 dB typ.

Miniature Package: .118" x .150" SMT
1:1 Transformer, 75 Ohm Impedance

Applications

CATV Networks

Broadband Systems

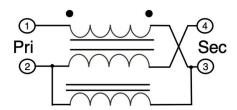
Specifications

Parameter	Specification Units			
	Min	Тур.	Max.	
Operating Frequency Range	45		2000	MHz
Insertion Loss		0.7	1.2	dB
Amplitude Balance:				
45 – 1200 MHz		0.3	0.7	dB
1200 – 2000 MHz		0.8	1.0	u D
Phase Balance		4	6	Degrees
Input Return Loss:	18	22		dB
Nominal Impedance			75 Ω	
Impedance Ratio	1:1			
Transformer Type	Unbalanced to Balanced			

Product Description

The MRFXF0090 was developed for CATV Networks and broadband applications that require repeatable and reliable performance to 2 GHz. The balun offers excellent return loss and low insertion loss for balance to single-ended RF applications. The MRFXF0090 is low-cost, surface mount, lead-free, and RoHS compliant. The balun uses welded-wire construction for increased reliability. S-parameters are available on the web.

Schematic Diagram



Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended applications 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 not applied.

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

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Absolute Maximum Ratings

Power Handling	2W	
Operating Temp	-40°C to 100°C	
Storage Temp	-40°C to 100°C	





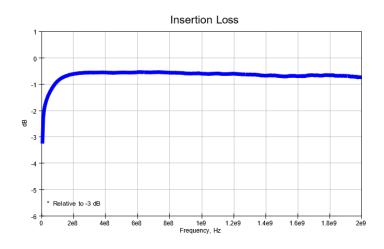
MRFXF0090

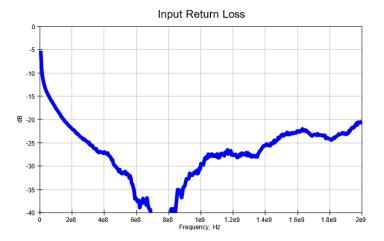
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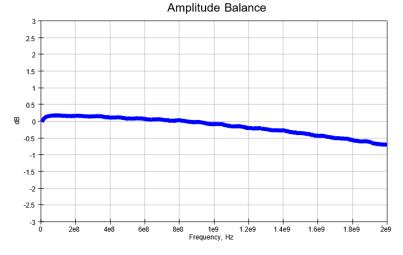


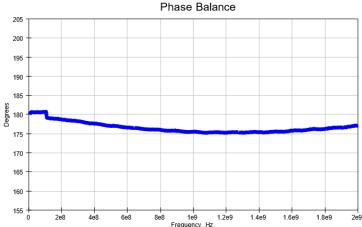
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Typical Data











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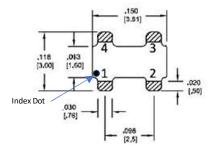
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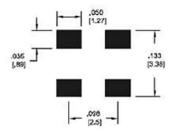
Connections

PIN	FUNCTION
1	Primary Dot (Input)
2	Primary (Ground)
3	Secondary Dot (Output 1)
4	Secondary (Output 2)

S22 Package Drawing

Dimensions in inches (mm)





PCB FOOTPRINT

