

Features

- Frequency Range 5 MHz - 3000 MHz
- Low Insertion Loss 1.6 dB @1.8 GHz typical
- Small SMT Package
- Impedance Characteristics 75 Ohms

Applications

- Broadband / CATV
- Wireless Communications

Specification

Product Description

The MRFSP9725 3 GHz, 2-way splitter 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 available on request.

Parameter	Specification			Units
	Min	Typ.	Max.	
Operating Frequency Range	5		3000	MHz
Insertion Loss:				
5 – 1200 MHz		1.2	1.25	dB
1200 – 1800 MHz		1.6	1.9	
1800 – 3000 MHz		2.7	3.1	
Amplitude Balance:				
5 – 1800 MHz		±0.2	±0.5	dB
1800 – 3000 MHz		±0.4	±0.6	
Isolation				
5 – 550 MHz	18	20		dB
550 – 1800 MHz	10.5	11.5		
1800 – 3000 MHz	10	10.5		
Phase Balance				
5 – 1800 MHz		±3	±5	Degrees
1800 – 3000 MHz		±5	±7	
Input Return Loss:				
5 – 1200 MHz		17		dB
1200 – 1800 MHz		12		
1800 – 3000 MHz		13		
Output Return Loss				
5 – 1200 MHz		18		dB
1200 – 1800 MHz		17		
1800 – 3000 MHz		17		
Nominal Impedance	75 Ω			

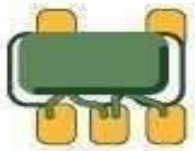
Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended applications of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute 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 Rating

RF Power	+33 dBm
Operating Temp	-55° to +100°C
Storage Temp	-55° to +100°C



MiniRF

MRFSP9725

2-Way SMT Splitter



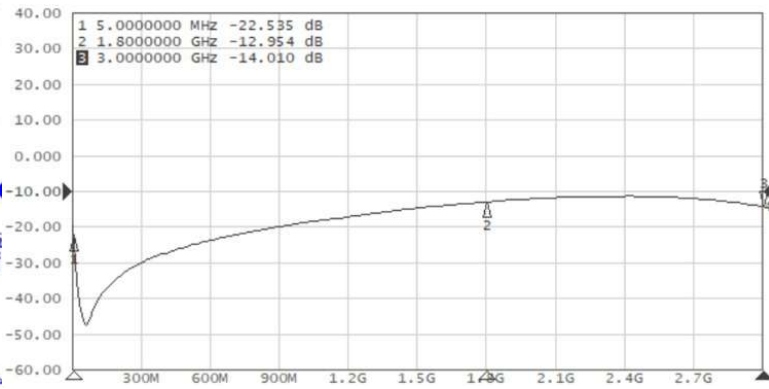
S-19

Typical Data

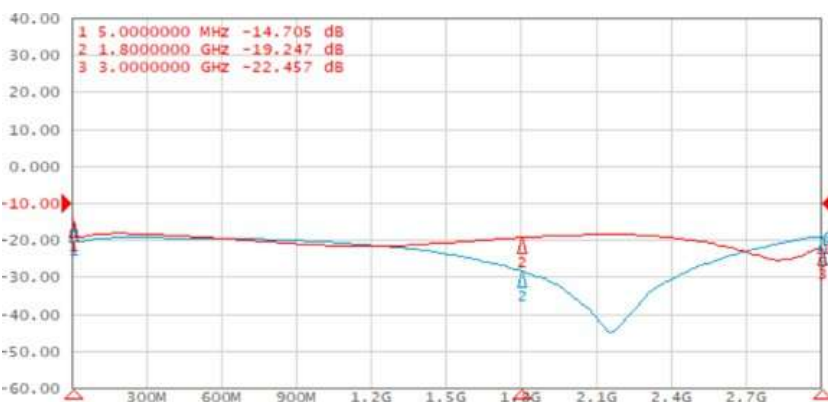
Insertion Loss



Input Return Loss



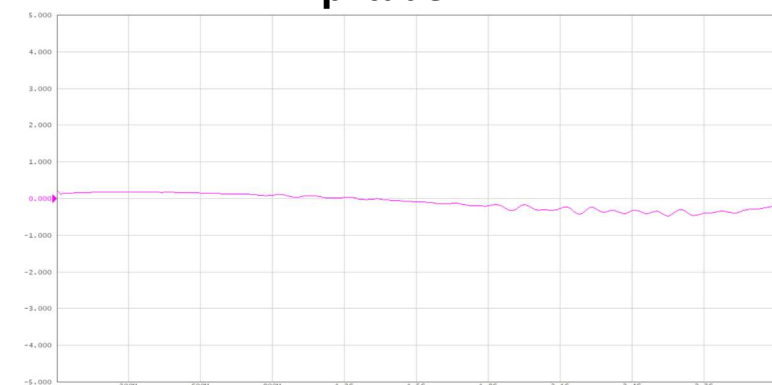
Output Return Loss



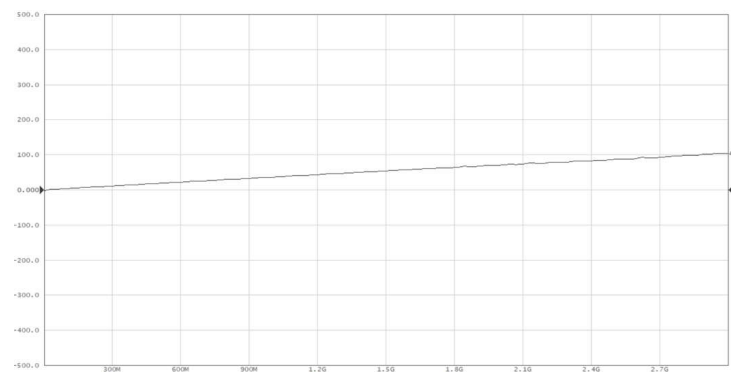
Isolation



Amplitude



Phase

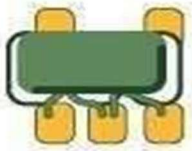


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Pin	Function
1	INPUT
2	C1
3	OUTPUT 2, R1
4	OUTPUT 1, R1
5	C2
6	GROUND

S19 Package Drawing

Dimensions in Inches (millimeters)

Package S19

