



MRFSP8525 2-WAY SPLITTER



Features

- Frequency Range 2 to 2500 MHz
- Low Cost and RoHS Compliant
- Small SMT package
- Available in Tape-and-Reel
- 50 Ω Characteristic Impedance

Applications

- Broadband
- Wireless



Product Description

The MRFSP8525 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 are available on request.

Specifications

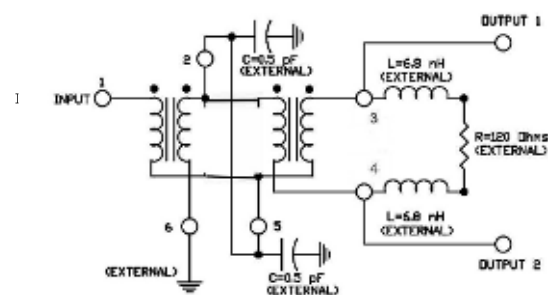
Parameter	Min	Typ*	Max	Min	Typ*	Max	Min	Typ*	Max
Frequency Range (MHz)	2		20	20		200	200		2500
Insertion Loss (dB)		0.15	0.25		0.30	0.35		1.0	2.0
Isolation (dB)	25	30		35	38		15	22	
Input Return Loss (dB)	20	23		25	28		14	20	
Output Return Loss (dB)	18	23		25	28		9	15	
Amplitude Balance (dB)		0.10	0.15		0.10	0.15		0.20	0.25
Phase Balance (Degrees)		0.5	1.0		0.6	1.0		11	20

* Typical data represents mid-band performance @ 25 C

Schematic

Absolute Maximum Ratings

Parameter	Maximum
RF Power	1 Watt
Operating Temperature	-45 to +100 °C
Storage Temperature	-55 to +125 °C



MiniRF Incorporated

2010 Crow Canyon Place
Suite 100
San Ramon, CA 94583

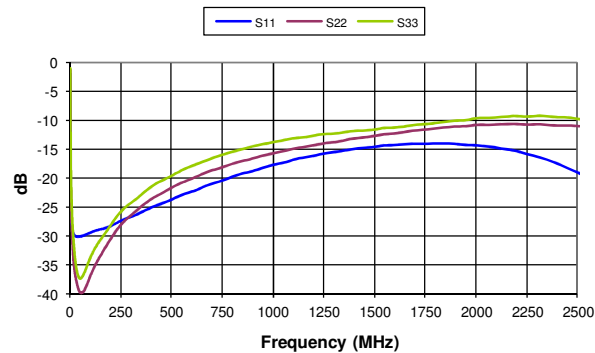
Tel. 408 228-3533
www.minirf.com



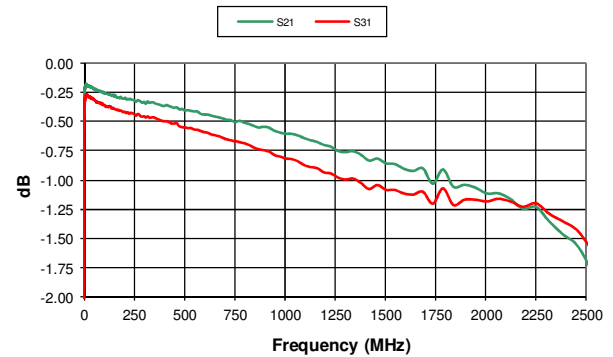
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Typical Data

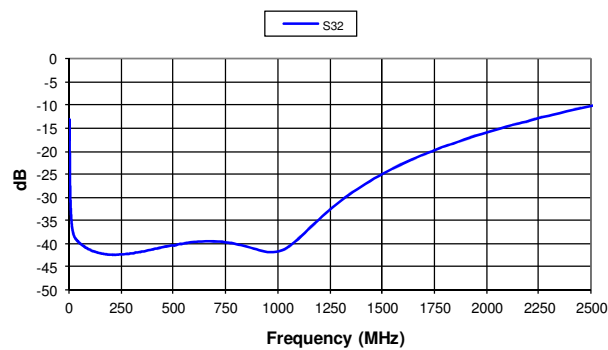
Return Loss



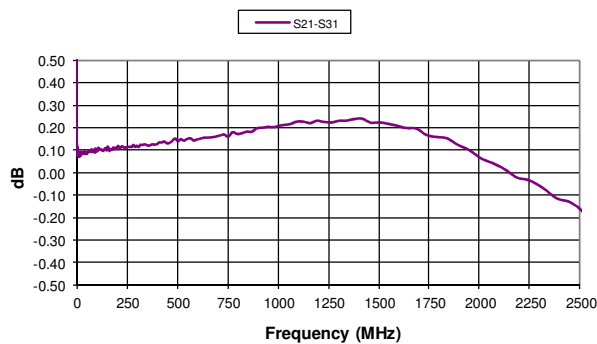
Insertion Loss



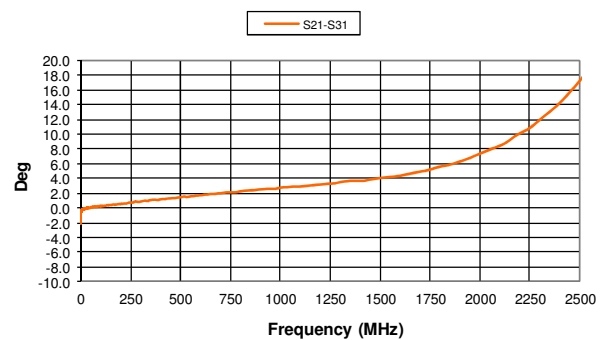
Isolation



Amplitude Balance



Phase Balance



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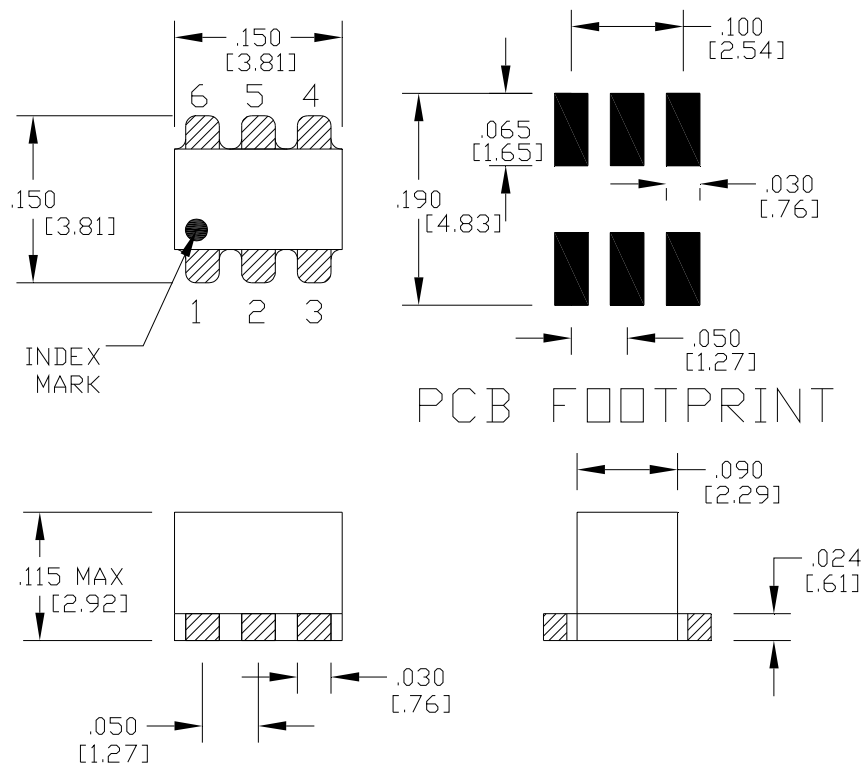


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Pin Out

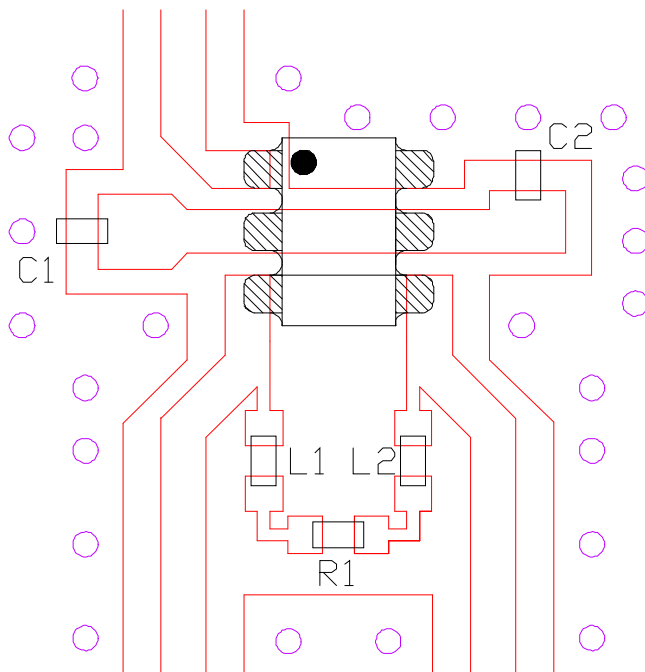
Pin	Function
1	INPUT
2	C2
3	OUTPUT 1, L1, R1
4	OUTPUT 2, L2, R1
5	C1
6	GROUND

Package S19



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Application Footprint



$C1 \text{ \& } C2 = .5 \text{ pF}$

$L1 \text{ \& } L2 = 6.8 \text{ nH}$

$R1 = 120 \text{ } \Omega \text{hms}$