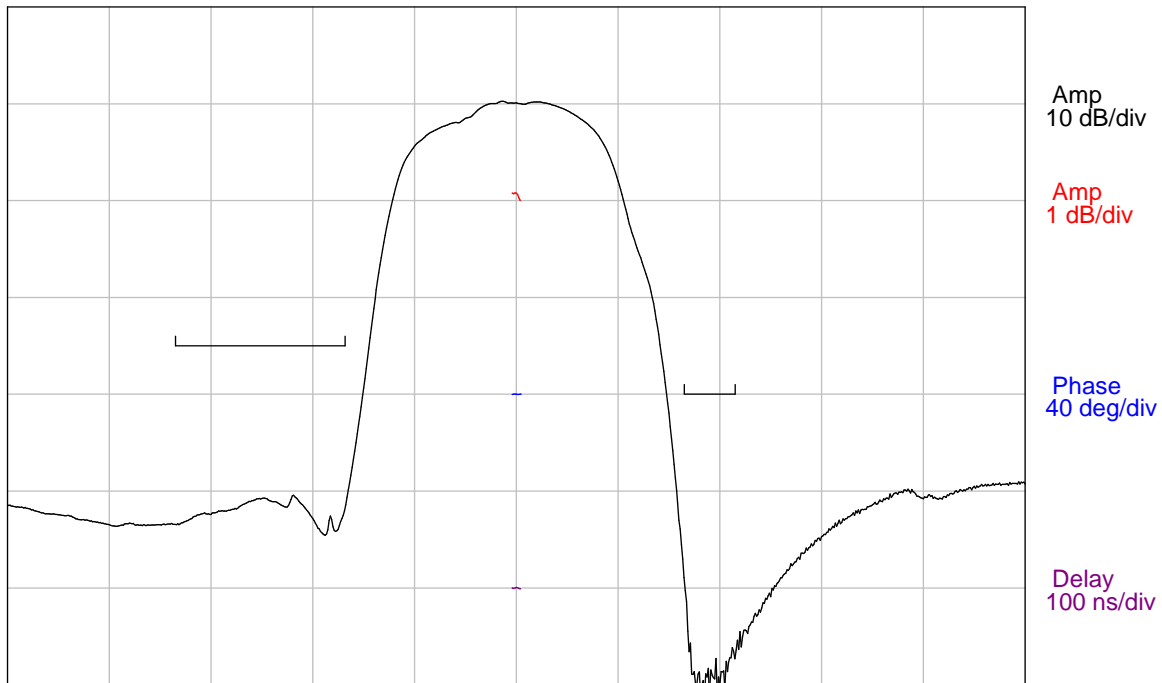


**DESCRIPTION**

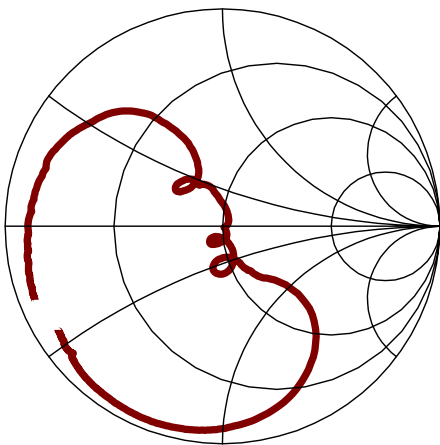
- 1575.42 MHz SAW bandpass filter with a 48 MHz bandwidth for GPS applications.
- 2 x 1.6 mm LCC package, 4 pads.
- RoHS compliant.

**TYPICAL PERFORMANCE**

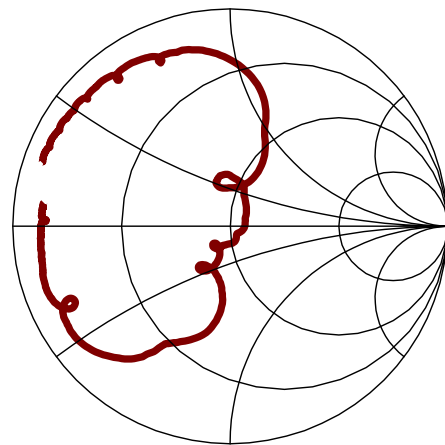


Center = 1575.42 MHz, 30 MHz/div (375 kHz incr)

**S11 (1425.42-1725.42 MHz)**



**S22 (1425.42-1725.42 MHz)**



## SPECIFICATION

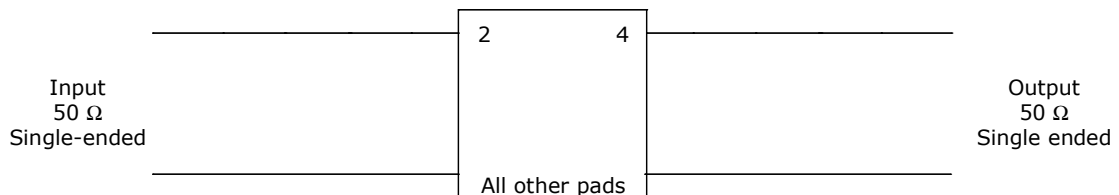
Parameter	Min	Typ	Max	Units
Center Frequency $F_c$	-	1575.42	-	MHz
Insertion Loss <sup>1</sup>	-	2	2.2	dB
Passband Amplitude Ripple <sup>1</sup>	-	0.1	1.0	dB
Stopband Rejection (DC to 1400 MHz) <sup>2</sup>	33	35	-	dB
Stopband Rejection (1400 to 1475 MHz) <sup>2</sup>	35	42	-	dB
Stopband Rejection (1475 to 1525 MHz) <sup>2</sup>	25	42	-	dB
Stopband Rejection (1625 to 1640 MHz) <sup>2</sup>	30	53	-	dB
Stopband Rejection (1640 to 2000 MHz) <sup>2</sup>	35	41	-	dB
Stopband Rejection (2000 to 3000 MHz) <sup>2</sup>	25	36	-	dB
VSWR <sup>1</sup>	-	1.3	2.0	--
Source/Load Impedance	50/50			$\Omega$

Notes: 1. Within passband 1574.22 to 1576.62 MHz.  
 2. Relative to insertion loss.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Operating Temperature Range	-30	+85	°C
Storage Temperature Range	-40	+85	°C
Input Power Level	-	10	dBm
Max. D. C. Voltage between Each Terminal	-	5	V

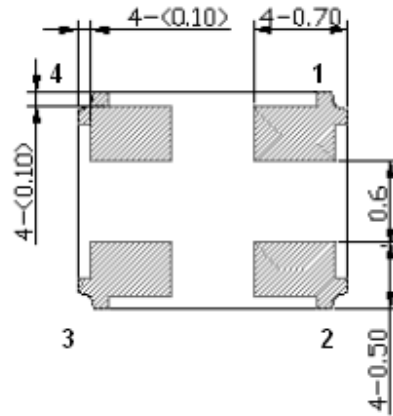
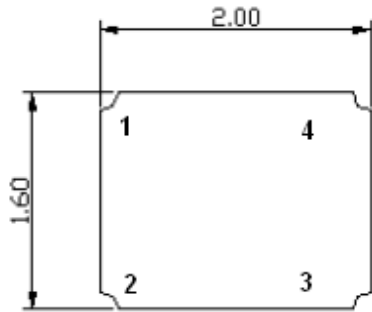
## MATCHING CIRCUIT



Notes:

- 50 ohms, single ended.
- Matching components are not required

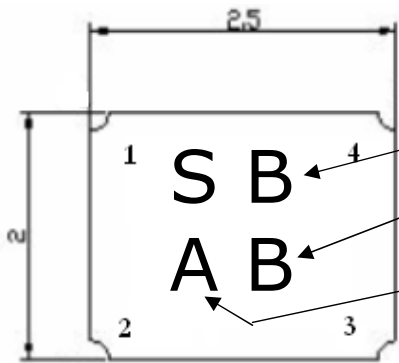
**PACKAGE DIMENSIONS**



PIN NO.	DESCRIPTION
2	INPUT
4	OUTPUT
1,3	GROUND

NOTES:  
 DIMENSIONS IN MM

**MARKING**



Model Identification: SB = SF1575BA02534S

Week Code: A through Z followed by a through z equals 52 weeks.

Year Code: A = 2011, B=2012, C=2013, to J=2020 (Code A through J repeats every 10 years)

**ISO 9001  
 Registered**

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.  
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