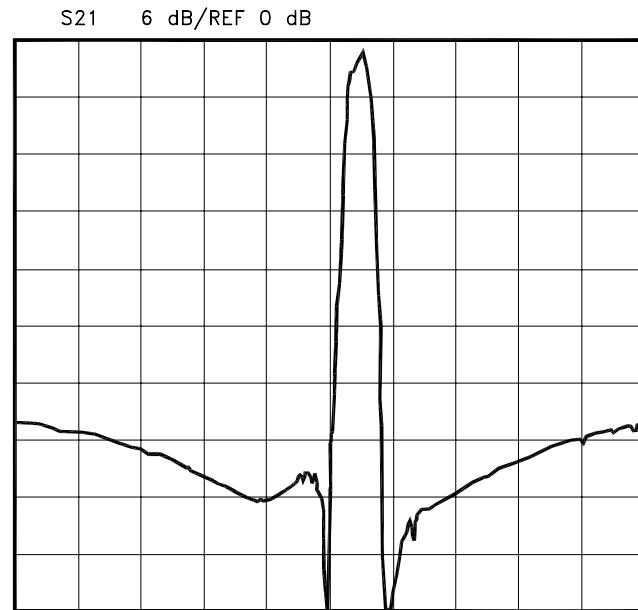


## DESCRIPTION

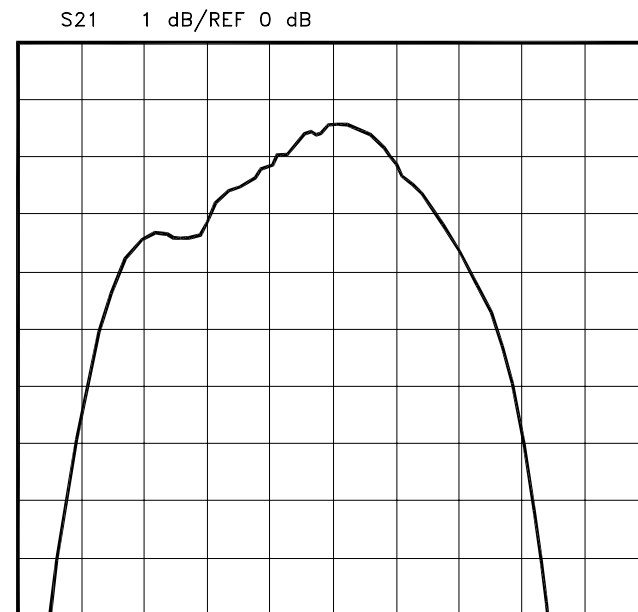
- Miniature 1575.42 MHz SAW Filter with 24 MHz nominal 1 dB Bandwidth.
- 3 x 3 mm Ceramic LCC package.
- RoHS compliant.

## TYPICAL PERFORMANCE



START 800.00 MHz

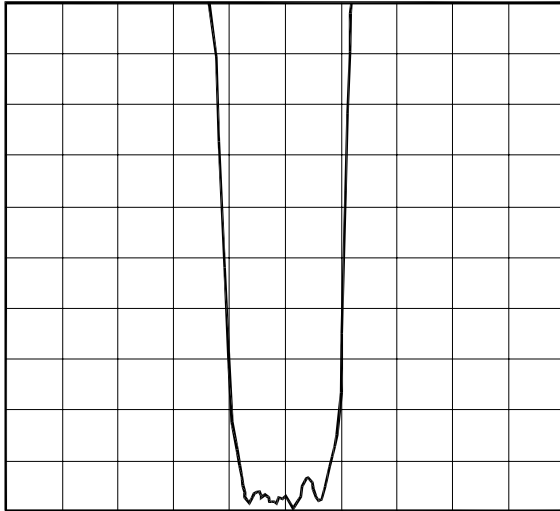
STOP 2.200.00 MHz



CENTER 1575.42 MHz

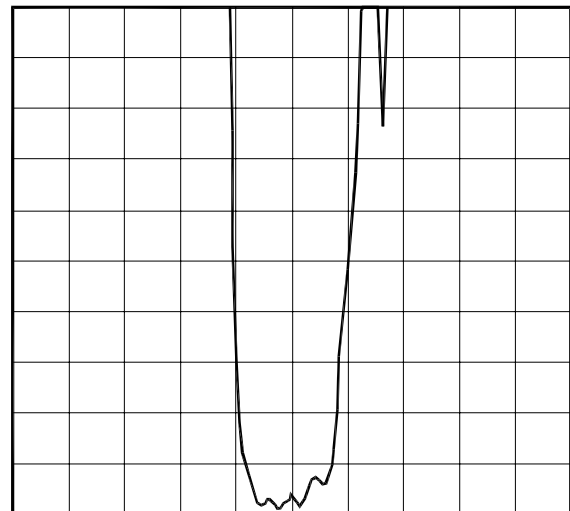
SPAN 80.00 MHz

**S11**

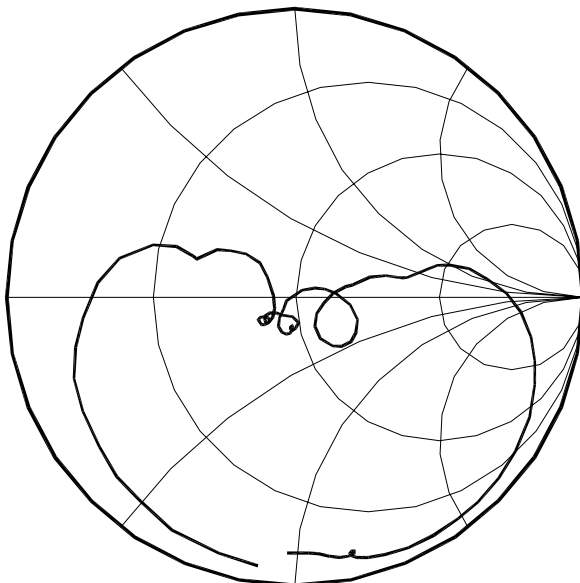


CENTER Fo 1575.42 MHz SPAN 400.00 MHz

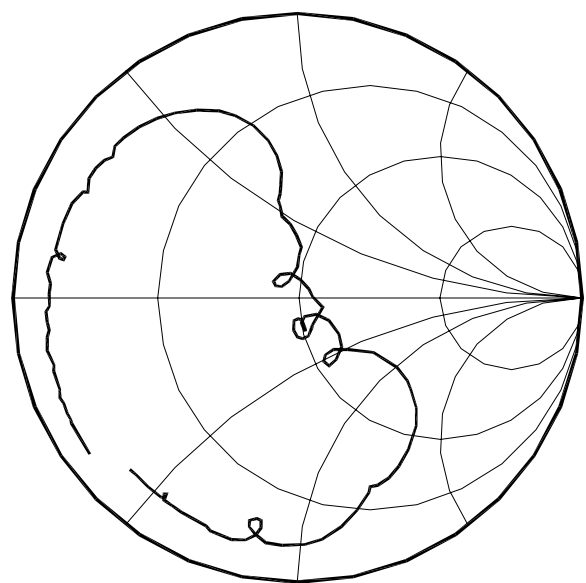
**S22**



CENTER Fo 1575.42 MHz SPAN 400.00 MHz



CENTER Fo 1575.42 MHz SPAN 400.00 MHz



CENTER Fo 1575.42 MHz SPAN 400.00 MHz

## SPECIFICATION

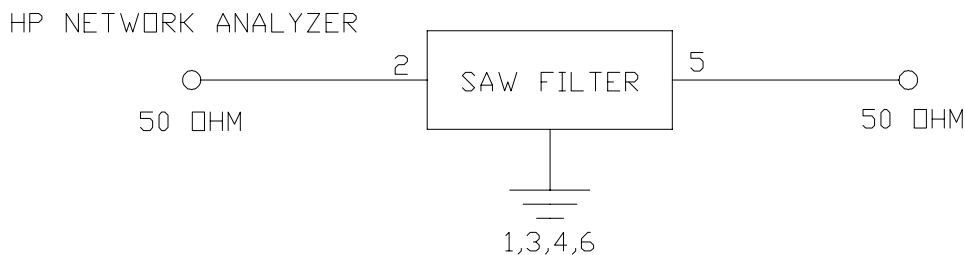
Parameter	Min	Typ	Max	Units
Center Frequency $F_C$	-	1575.42	-	MHz
Amplitude Ripple (1574.22 – 1576.62 MHz)	-	0.15	1.0	dB
Insertion Loss (1574.22 – 1576.62 MHz)	-	1.5	2.0	dB
<b>Attenuation</b>				
DC to 1382 MHz <sup>1</sup>	37	40	-	dB
1382 - 1397 MHz <sup>1</sup>	40	47	-	dB
1397 to 1478 MHz <sup>1</sup>	40	45	-	dB
1478 to 1487 MHz <sup>1</sup>	40	47		
1487 to 1500 MHz <sup>1</sup>	30	52	-	dB
1625 to 1640 MHz <sup>1</sup>	30	49	-	dB
1640 to 2000 MHz <sup>1</sup>	38	42	-	dB
2000 to 3000 MHz <sup>1</sup>	33	38.5		dB
VSWR (1574.22 – 1576.62 MHz)	-	1.1	2.0	dB
2000 to 3000 MHz <sup>1</sup>	33	38.5	-	dB
Input/Output Impedance	50			$\Omega$

Notes: 1. Reference level from 0 dB.

## MAXIMUM RATINGS

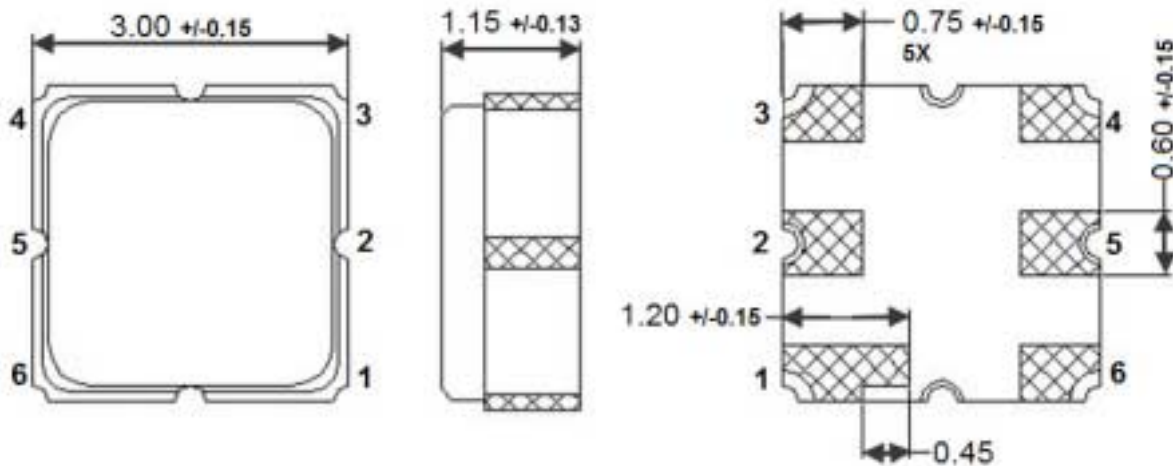
Parameter	Min	Max	Units
Storage Temperature Range	-50	+100	$^{\circ}\text{C}$
Operating Temperature Range	-40	+85	$^{\circ}\text{C}$
Input Power Level <sub>1</sub>	-	+10	dBm
D.C. Voltage	-	0	Vdc

## MATCHING CIRCUIT

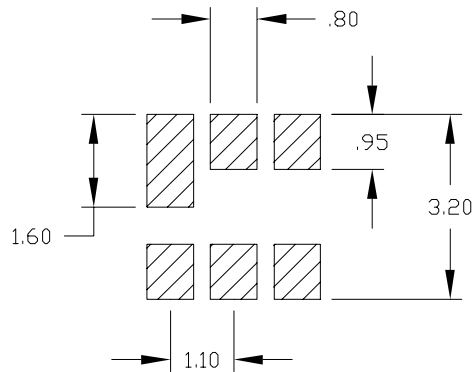


Matching components are not required.

### PACKAGE OUTLINE



### SUGGESTED FOOTPRINT



Package Material:  
Body:  $Al_2O_3$  ceramic  
Lid: Kovar, Ni plated  
Terminations: Au plating 1  $\mu$ m min,  
over a 1.3-8.9  $\mu$ m Ni plating

### MARKING



Units: mm

Tolerances are typically  $\pm 0.15$  mm  
except where indicated.

### Pad Configuration:

Input: 2  
Output: 5  
Ground: 1,3,4,6

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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