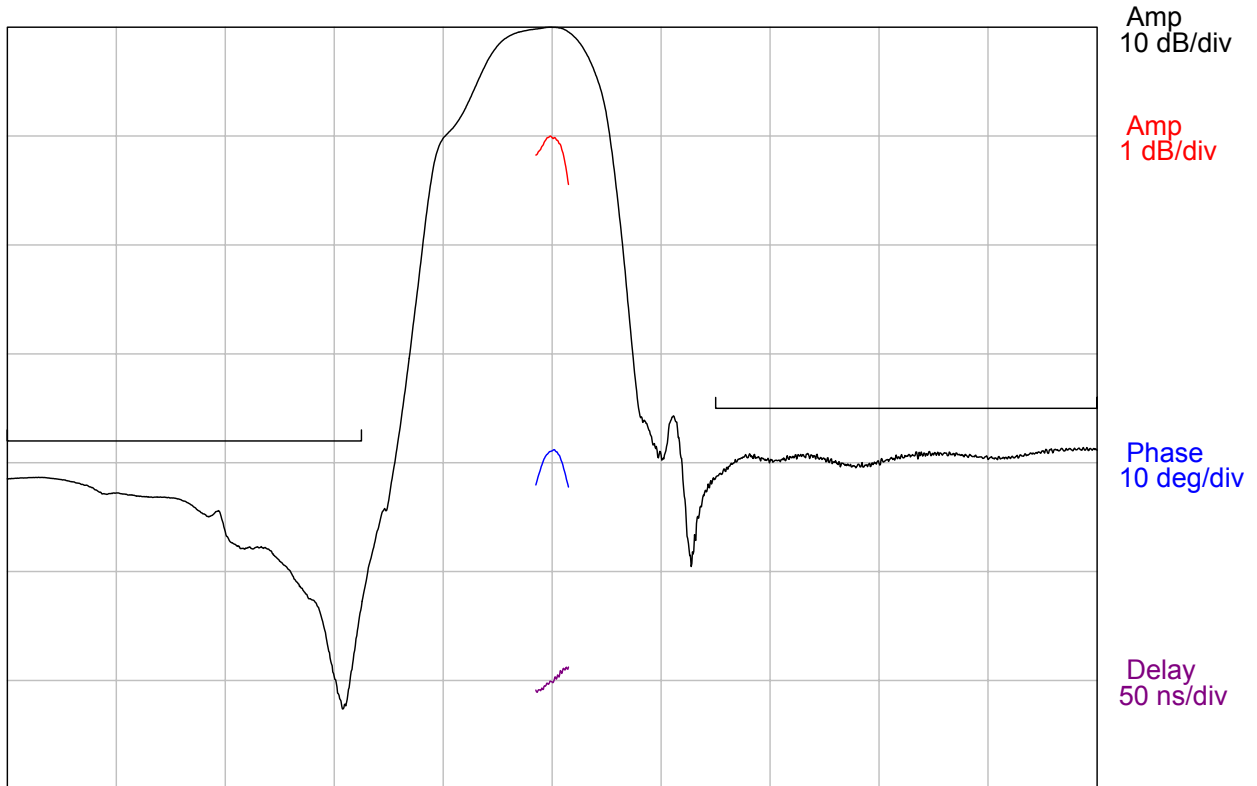


**DESCRIPTION**

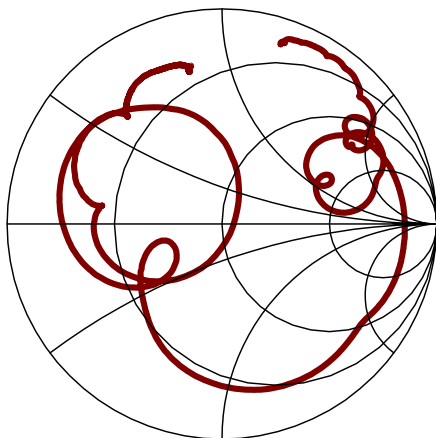
- 1500 MHz SAW bandpass filter with 6 MHz bandwidth.
- 3.8 x 3.8 mm ceramic LCC package.
- RoHS compliant.

**TYPICAL PERFORMANCE**

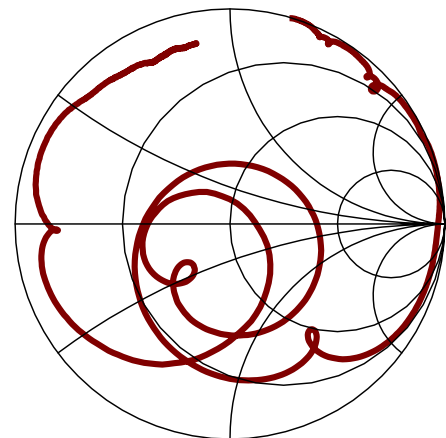


Center = 1500 MHz, 20 MHz/div (125 kHz incr)

**S11 (1400-1600 MHz)**



**S22 (1400-1600 MHz)**



## SPECIFICATION

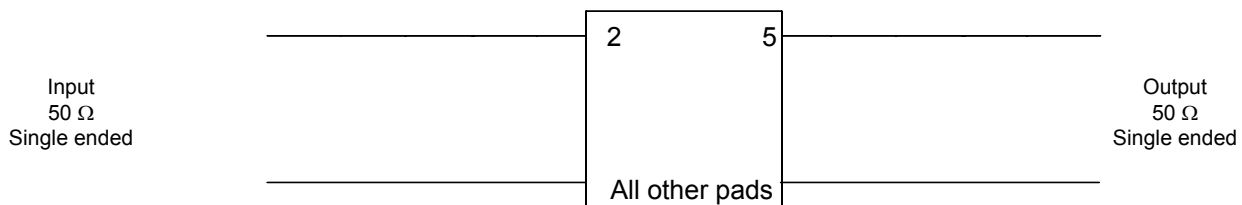
Parameter	Min	Typ	Max	Units
Center Frequency, $F_c$ <sup>1</sup>	1490	1500	1510	MHz
Insertion Loss	-	3.9	6	dB
Passband Ripple (1497-1503 MHz)	-	0.8	2	dB p-p
Phase Ripple (1497-1503 MHz)	-	3	5	deg p-p
Group Delay Deviation (1497-1503 MHz)	-	10	20	ns p-p
Absolute Delay	-	52	-	ns
3 dB bandwidth <sup>2</sup>	6	18.5	21	MHz
Lower 3 dB Frequency <sup>2</sup>	-	1488.2	1497	MHz
Upper 3 dB Frequency <sup>2</sup>	1503	1506.7	-	MHz
30 dB Bandwidth <sup>2</sup>	-	40.8	-	MHz
40 dB bandwidth <sup>2</sup>	-	48.9	-	MHz
Relative Attenuation (1400-1465 MHz)	38	42	-	dB
Relative Attenuation (1530-1600 MHz)	35	38	-	dB
Input /Output Return Loss at $F_c$	6	10	-	dB
Source and Load Impedance	50			ohms
Temperature Coefficient of Frequency	-32			ppm/°C
Ambient Temperature	-	25	-	°C

- Notes: 1. Reference frequency. Computed as mean of the 3 dB frequencies.  
 2. All dB values are referenced to the insertion loss value.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	100	°C
Operating Temperature Range	-30	100	°C
Input Power Level	-	13	dBm

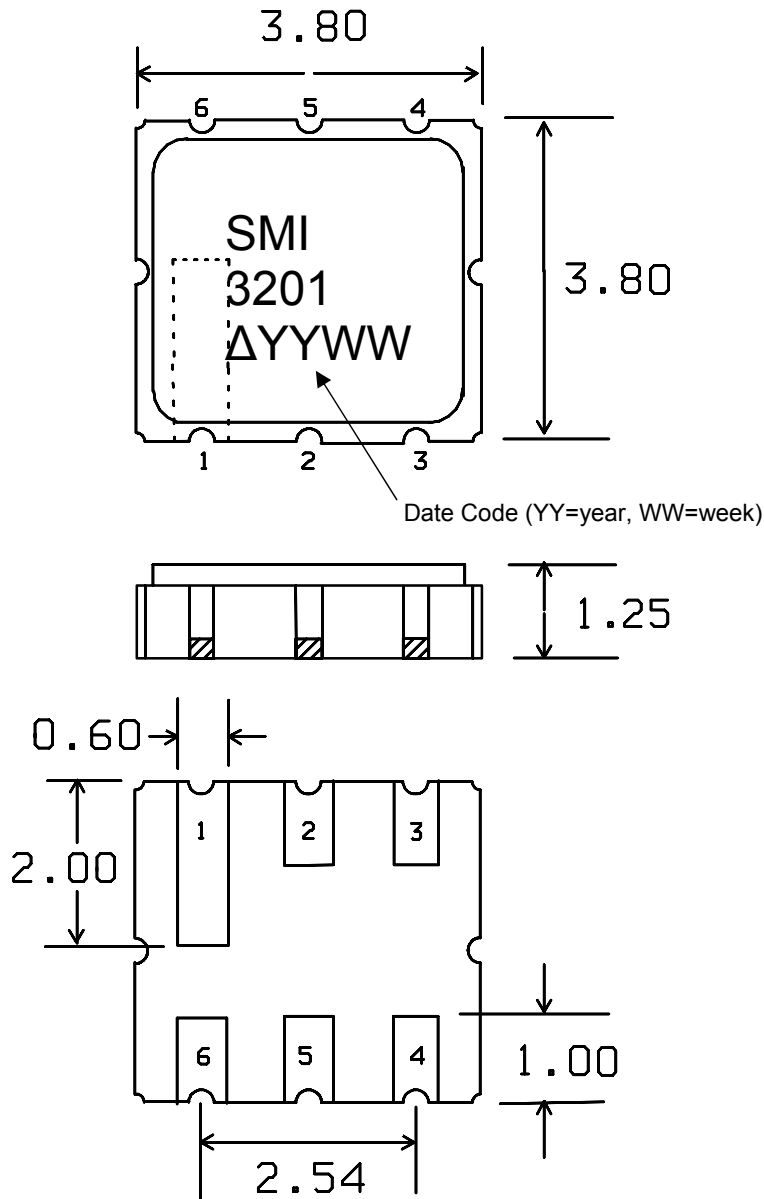
## MATCHING CIRCUIT



Notes:

- Matching components are not required.
- Operation is in a 50 ohm single-ended system.

**PACKAGE OUTLINE**



**Units:** mm

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

**Pad Configuration:**

Input: 2  
 Output: 5  
 Ground: All other pads

**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

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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