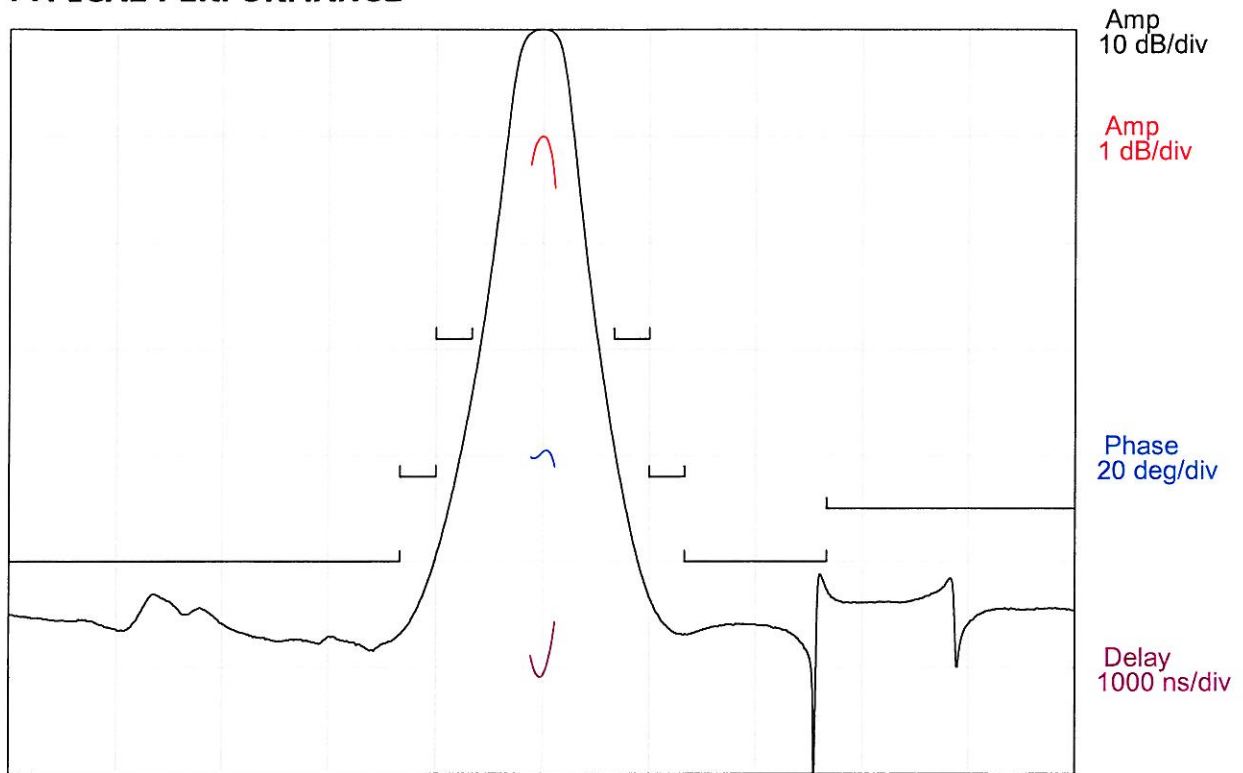


**DESCRIPTION**

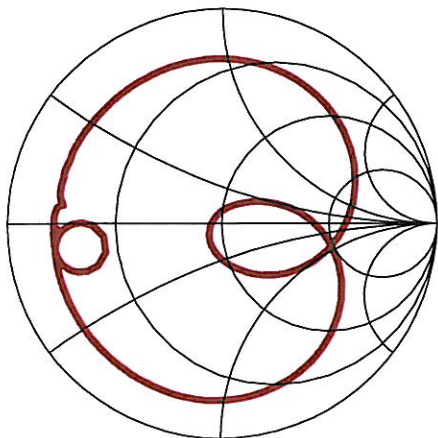
- 360 MHz SAW bandpass filter with 0.135 MHz bandwidth.
- 5 x 5 mm ceramic LCC package, 8 pads.
- RoHS compliant.

**TYPICAL PERFORMANCE**

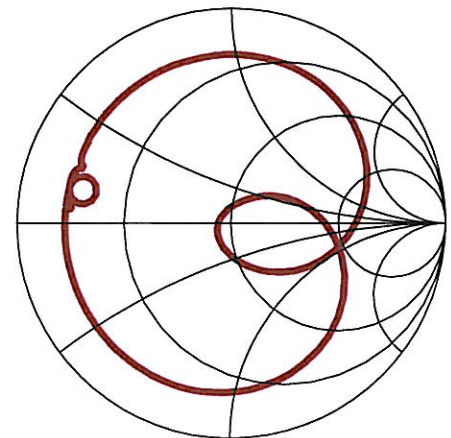


Center = 360 MHz, 0.6 MHz/div (7.5 kHz incr)

**S11 (357-363 MHz)**



**S22 (357-363 MHz)**



## SPECIFICATION

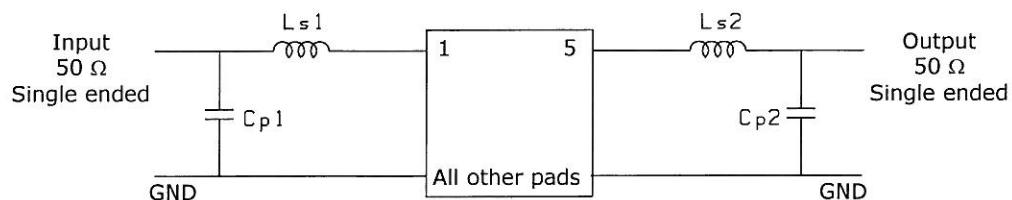
Parameter	Min	Typ	Max	Units
Center Frequency, $F_c$ <sup>1</sup>	-	360	-	MHz
Minimum Insertion Loss	-	3.7	5	dB
Amplitude Ripple (359.932-360.068 MHz) <sup>2</sup>	-	0.5	1.5	dB p-p
Group Delay Ripple (359.932-360.068 MHz) <sup>2</sup>	-	550	2000	ns p-p
3 dB Bandwidth <sup>2</sup>	-	0.26	-	MHz
Rejection (356-359.2 MHz) <sup>2</sup>	50	53	-	dB
Rejection (359.2-359.4 MHz) <sup>2</sup>	42	48	-	dB
Rejection (359.4-359.6 MHz) <sup>2</sup>	29	34	-	dB
Rejection (360.4-360.6 MHz) <sup>2</sup>	29	39	-	dB
Rejection (360.6-360.8 MHz) <sup>2</sup>	42	52	-	dB
Rejection (360.8-361.6 MHz) <sup>2</sup>	50	51.2	-	dB
Rejection (361.6-363 MHz) <sup>2</sup>	45	51	-	dB
Rejection (245-283 MHz) <sup>2</sup>	52	60	-	dB
Rejection (283-303 MHz) <sup>2</sup>	49	60	-	dB
Rejection (303-357 MHz) <sup>2</sup>	52	54	-	dB
Rejection (363-475 MHz) <sup>2</sup>	52	53	-	dB
Source and Load Impedance	50			$\Omega$
Ambient Temperature	25			$^{\circ}\text{C}$

- Notes:
1. Reference frequency. Computed as mean of the 3 dB frequencies.
  2. All dB values are referenced to the Insertion Loss.
  3. Referenced to the matched operating condition.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-35	85	$^{\circ}\text{C}$
Operating Temperature Range	-20	75	$^{\circ}\text{C}$
Input Power Level	-	+5	dBm

## MATCHING CIRCUIT

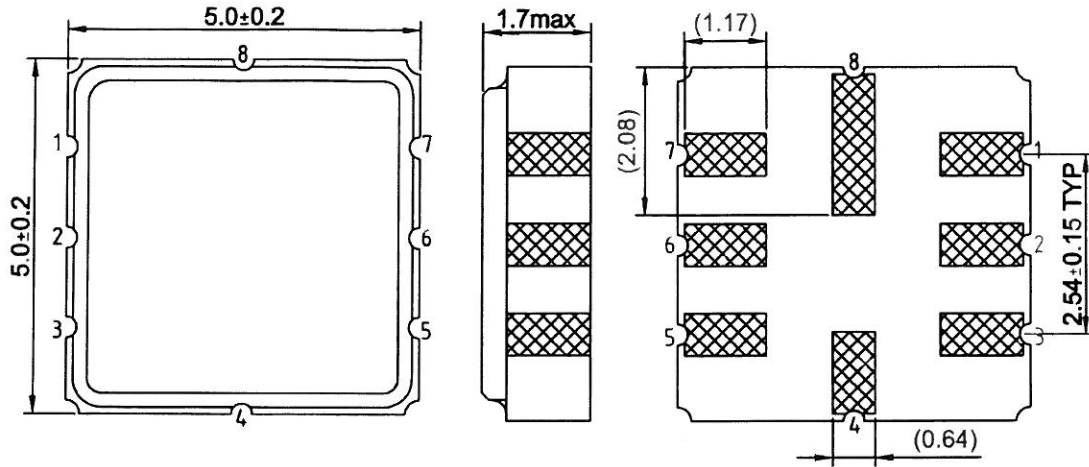


$$Ls1=82 \text{ nH}, Cp1=3.3 \text{ pF}, Ls2=82 \text{ nH}, Cp2=3.3 \text{ pF}$$

### Notes:

- Recommend  $\pm 2\%$  toleranced matching components. Typical inductor  $Q=40$ .
- Values shown are for reference only. Actual values are dependent upon board layout.

**PACKAGE OUTLINE**



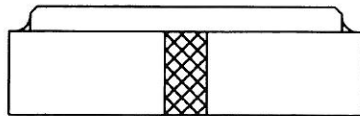
**Units:** mm  
 Tolerances are  $\pm 0.15$  mm except where indicated.

**Pad Configuration:**

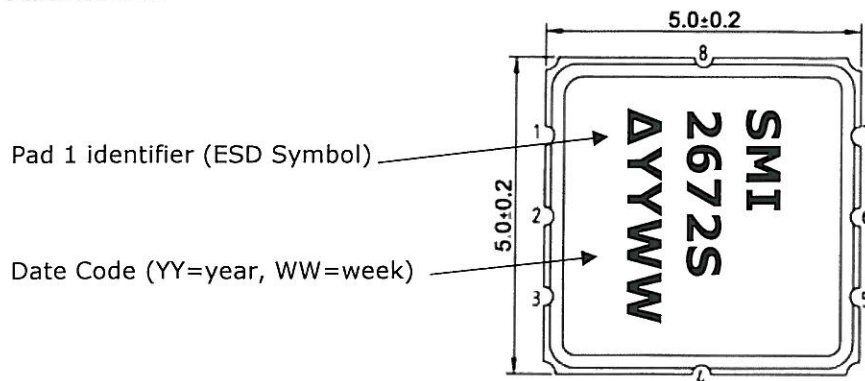
Input: 1  
 Output: 5  
 Ground: 2, 3, 4, 6, 7, 8

**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**



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