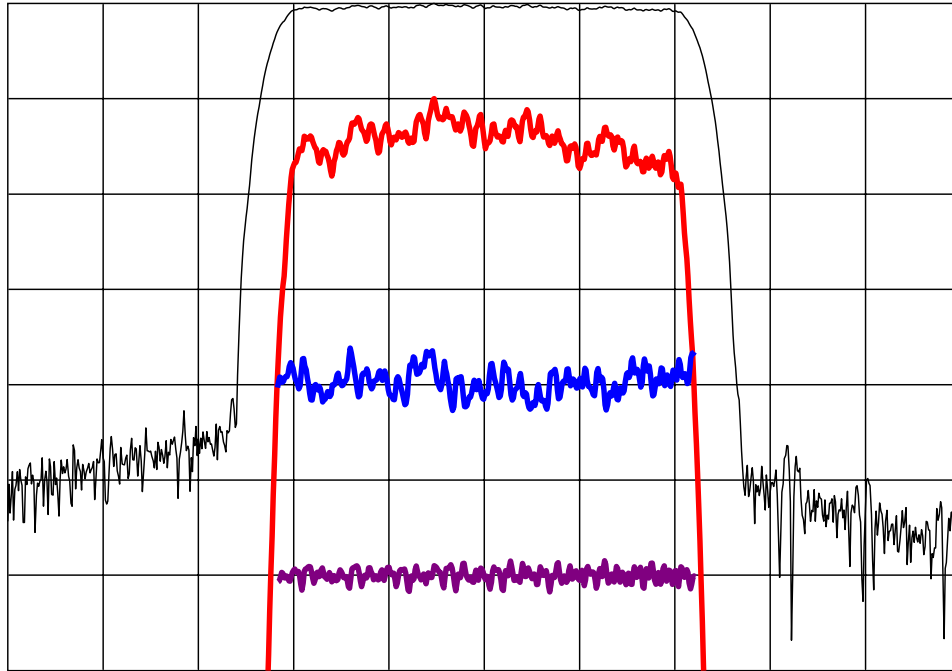


**DESCRIPTION**

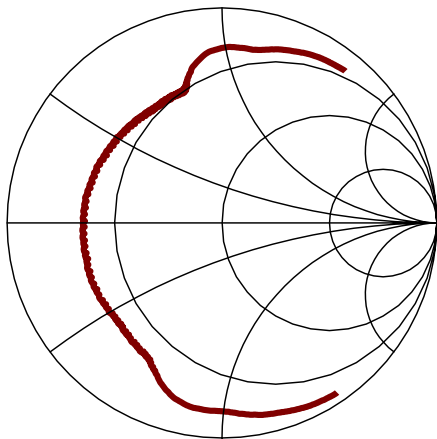
- 256 MHz SAW bandpass filter with 80 MHz bandwidth.
- 5 x 5 mm ceramic LCC package.
- RoHS compliant.

**TYPICAL PERFORMANCE**

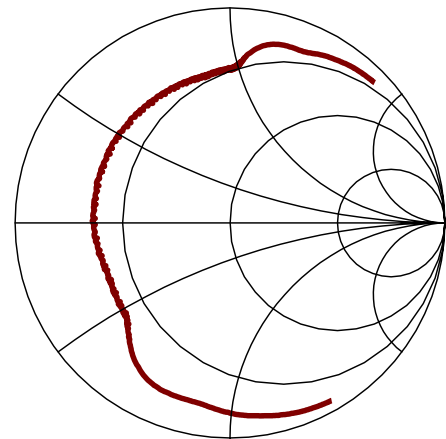


Horizontal:	Frequency	20	MHz /div
Vertical (from top):	Magnitude	10	dB/div
	Magnitude	1	dB/div
	Phase Deviation	5	deg/div
	Group Delay Deviation	50	ns/div

**S11 (156-356 MHz)**



**S22 (156-356 MHz)**



## SPECIFICATION

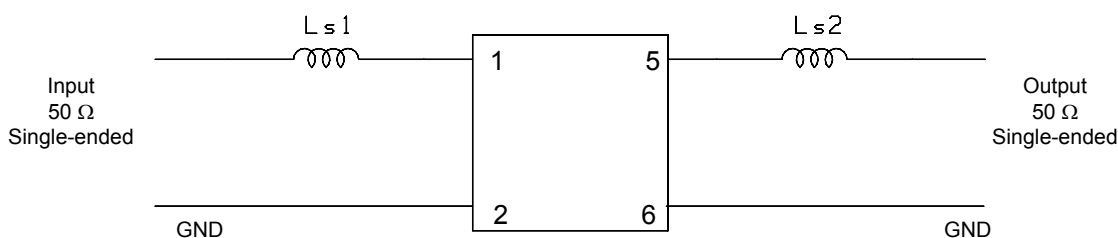
Parameter <sup>2</sup>	Min	Typ	Max	Units
Center Frequency (Fc) <sup>1</sup>	-	256	-	MHz
Minimum Insertion Loss	-	20.8	22	dB
1 dB Bandwidth	80	84.5	-	MHz
Lower 40 dB Band Edge	196	-	-	MHz
Upper 38 dB Band Edge	-	-	316	MHz
Rejection (0.3 to 30 MHz)	30	40	-	dB
Rejection (30 MHz to 196 MHz)	40	45	-	dB
Rejection (316 to 326 MHz)	38	41	-	dB
Rejection (326 to 500 MHz)	40	45	-	dB
Passband Ripple (216 to 296 MHz) <sup>2</sup>	-	0.7	1.0	dB p-p
Phase Linearity (216 to 296 MHz) <sup>2</sup>	-	4.5	8	deg p-p
Group Delay Deviation (216 to 296 MHz) <sup>2</sup>	-	30	60	ns p-p
Source and Load Impedance	-	50	-	$\Omega$
Input Power	-	+10	+13	dBm

- Notes: 1. Average of the 3 dB band edge frequencies.  
2. Specification applies to temperature range.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	$^{\circ}\text{C}$
Operating Temperature Range	-10	85	$^{\circ}\text{C}$
Input Power Level	-	+13	dBm

## MATCHING CIRCUIT

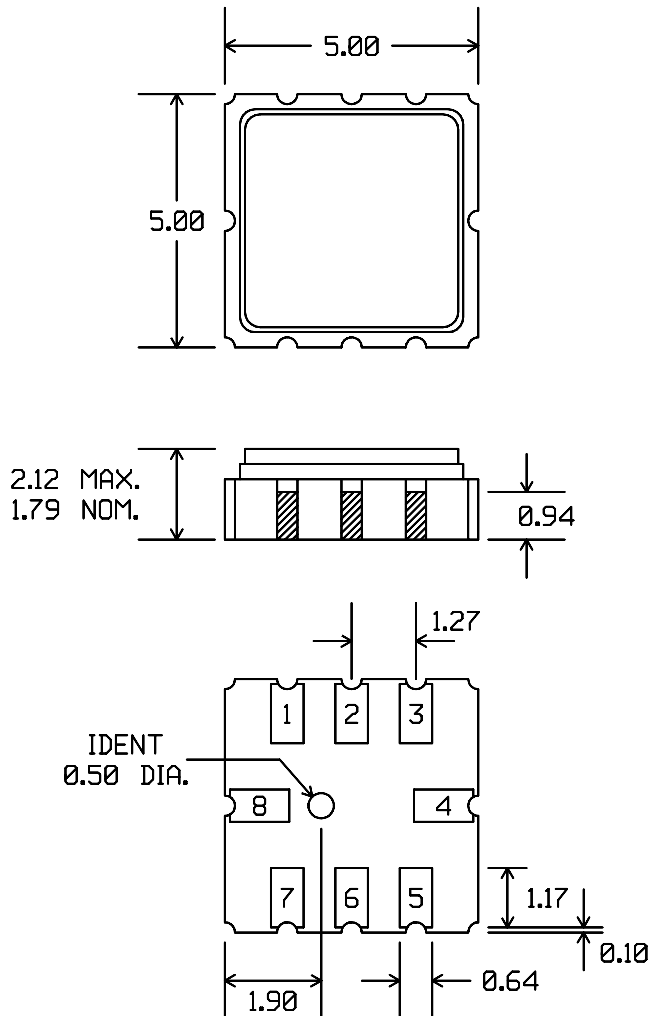


Typical component values:  $L_{s1} = 66 \text{ nH}$        $L_{s2} = 72 \text{ nH}$

### Notes:

1. Recommend +/-2% tolerance matching components. Typical inductor  $Q=40$ .
2. Tuning values shown are for reference only. Optimum values may change depending upon board layout.

## PACKAGE OUTLINE



Units: mm

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

### Pad Configuration:

Input:	1
Input Return:	2
Output:	5
Output Return:	6
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.  
© 2010 All rights reserved.