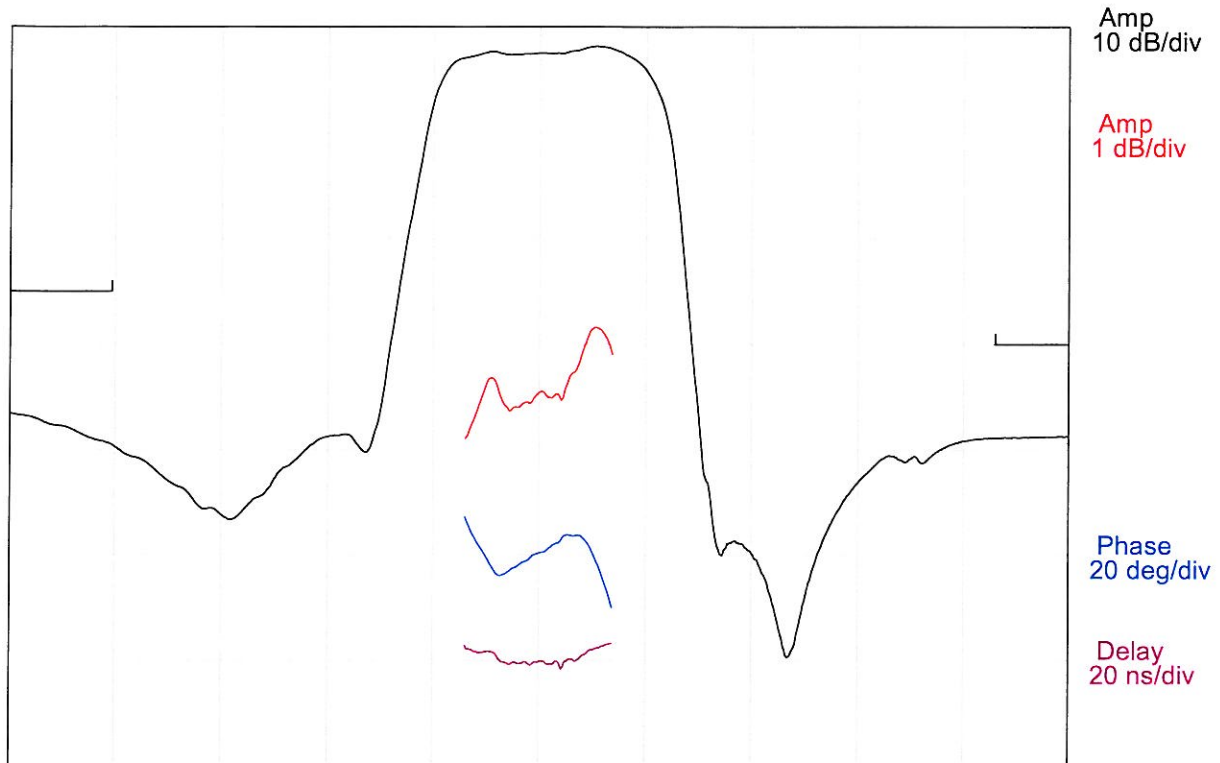


## DESCRIPTION

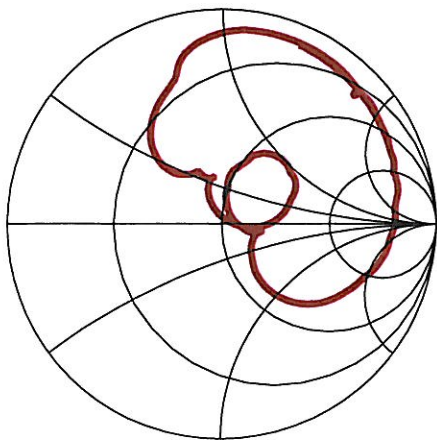
- 2442 MHz SAW filter with 83.5 MHz bandwidth for ISM and Bluetooth applications.
- 3 x 3 mm ceramic LCC package with 6 pads.
- RoHS compliant.

## TYPICAL PERFORMANCE

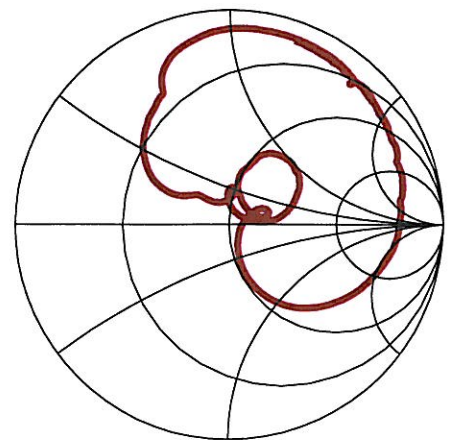


Center = 2441.8 MHz, 60 MHz/div (750 kHz incr)

**S11 (2141.8-2741.8 MHz)**



**S22 (2141.8-2741.8 MHz)**



## SPECIFICATION

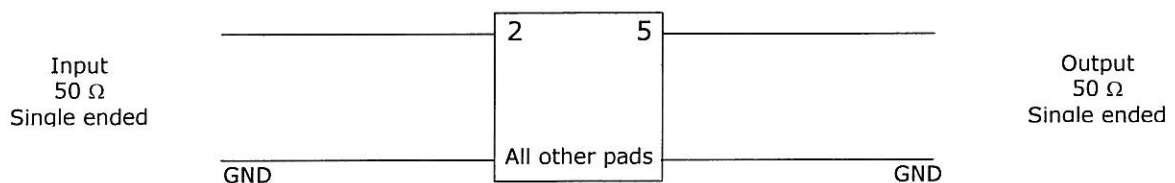
Parameter	Min	Typ	Max	Units
Center Frequency $F_c$	-	2441.8	-	MHz
Insertion Loss <sup>1</sup>	-	2.1	5.0	dB
Amplitude Ripple <sup>1</sup>	-	0.9	3.0	dB
Stopband Rejection (DC to 1700 MHz) <sup>2</sup>	20	29	-	dB
Stopband Rejection (1700 to 2200 MHz) <sup>2</sup>	25	30	-	dB
Stopband Rejection (2700 to 3100 MHz) <sup>2</sup>	30	40	-	dB
Stopband Rejection (3100 to 4000 MHz) <sup>2</sup>	20	29	-	dB
Stopband Rejection (4000 to 5000 MHz) <sup>2</sup>	10	20	-	dB
VSWR <sup>1</sup>	-	1.7	2.6	dB
Source/Load Impedance	50/50			$\Omega$

- Notes: 1. Within frequency range of 2400 to 2483.5 MHz.  
2. Rejection relative to 0 dB absolute level.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	$^{\circ}\text{C}$
Operating Temperature Range	-40	85	$^{\circ}\text{C}$
Input Power Level	-	10	dBm
DC Voltage	-	0	Volts

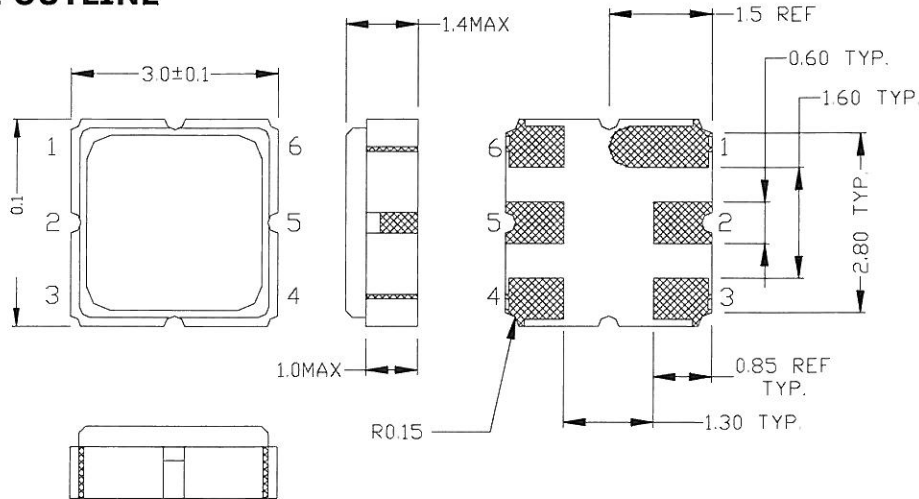
## MATCHING CIRCUIT



Notes:

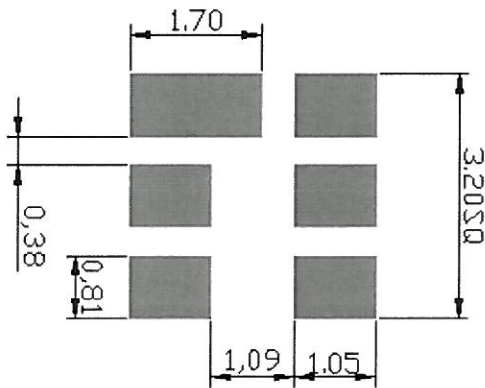
- External matching components are not required.
- Device is intended to operate in a 50  $\Omega$  single ended system.

**PACKAGE OUTLINE**



**Units:** mm

**SUGGESTED FOOTPRINT**



Typical tolerances are  $\pm 0.15$  mm except where indicated.

**Pad Configuration:**

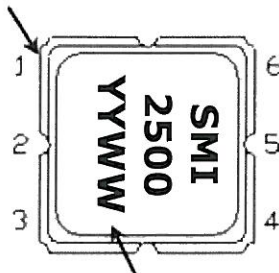
Input: 2  
 Output: 5  
 Ground: All other pads

**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

**MARKING**

**ODD SHAPED PAD**



**DATE CODE (YEAR, WEEK)**



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