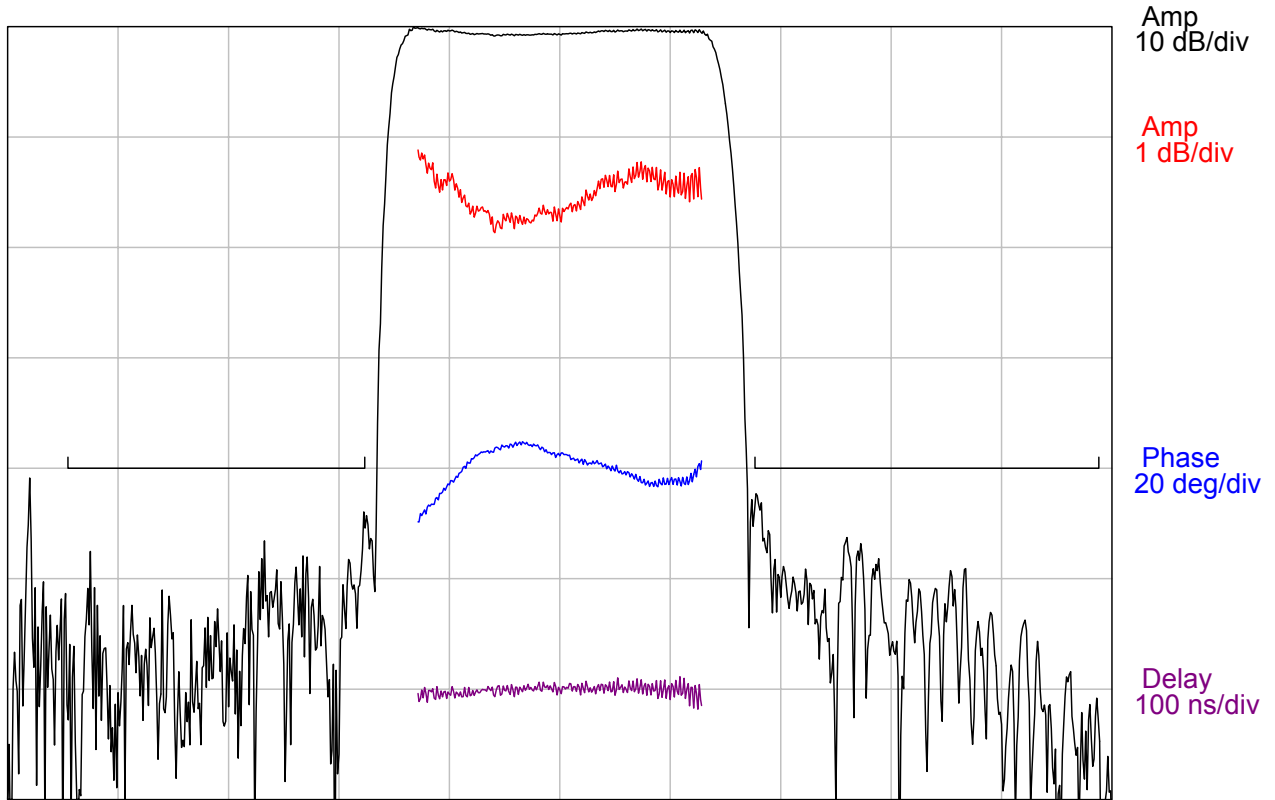


**DESCRIPTION**

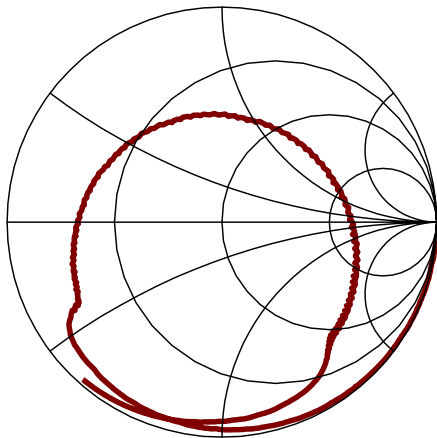
- 76.8 MHz SAW bandpass filter with 40 MHz bandwidth.
- 13.3 x 6.5 mm LCC package.
- RoHS compliant.

**TYPICAL PERFORMANCE**

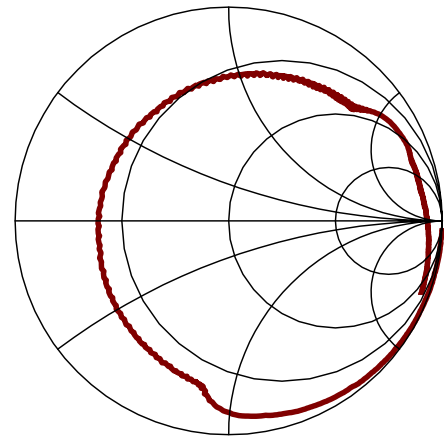


Center = 76.8 MHz, 15 MHz/div (187.5 kHz incr)

**S11 (1.8-151.8 MHz)**



**S22 (1.8-151.8 MHz)**



## SPECIFICATION

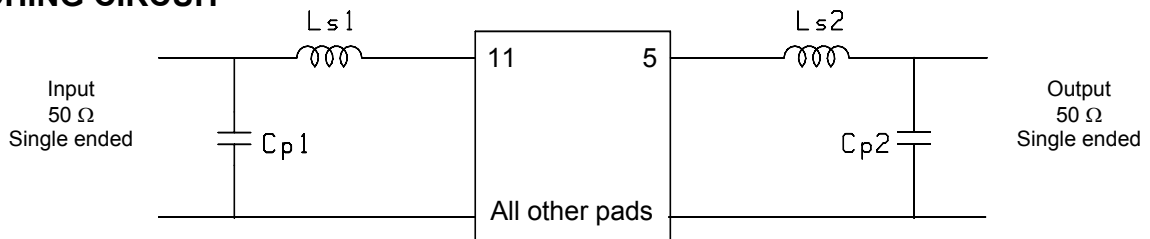
Parameter	Min	Typ	Max	Units
Center Frequency, $F_c$ <sup>1</sup>	-	76.8	-	MHz
Insertion Loss	-	21.4	22	dB
1.5 dB Bandwidth	40	42.1	-	MHz
3 dB Bandwidth	42	43.6	-	MHz
40 dB Bandwidth	-	50.4	53	MHz
Amplitude Ripple <sup>2</sup>	-	0.85	1	dB p-p
Group Delay Variation <sup>2</sup>	-	28	50	ns p-p
Absolute Delay	-	0.95	-	us
Rejection (10 to 50.3 MHz) <sup>3</sup>	40	44	-	dB
Rejection (103.3 to 150 MHz) <sup>3</sup>	40	48	-	dB
Source and Load Impedance	50			ohms
Temperature Coefficient of Frequency	-86			ppm/°C
Ambient Temperature	-	25	-	°C

- Notes:
1. Reference frequency. Computed as mean of the 3 dB frequencies.
  2. Defined over  $F_c \pm 19.25$  MHz.
  3. Dependent upon PC board layout.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-25	70	°C
Operating temperature Range	15	35	°C
Input Power Level	-	13	dBm

## MATCHING CIRCUIT

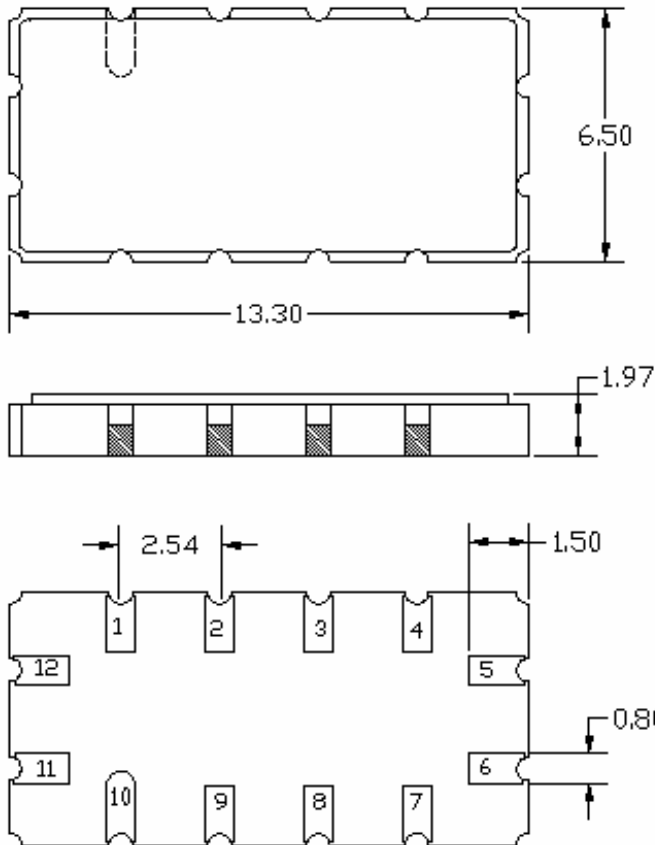


Typical Component values:       $L_{s1} = 180$  nH       $L_{s2} = 248$  nH  
     $C_{p1} = 33$  pF       $C_{p2} = 5$  pF

### Notes:

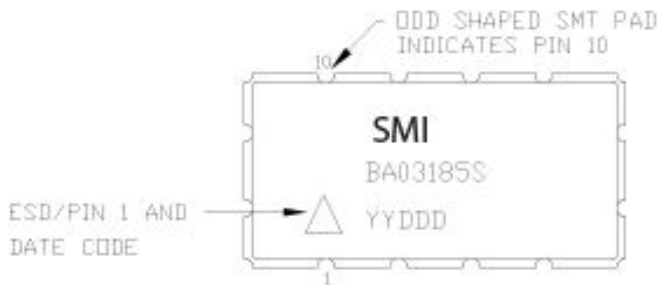
- Recommend 2% or better tolerance matching components. Typical inductor  $Q=40$ .
- Optimum values may change depending on board layout. Values shown are intended as a guide only.

**PACKAGE OUTLINE**

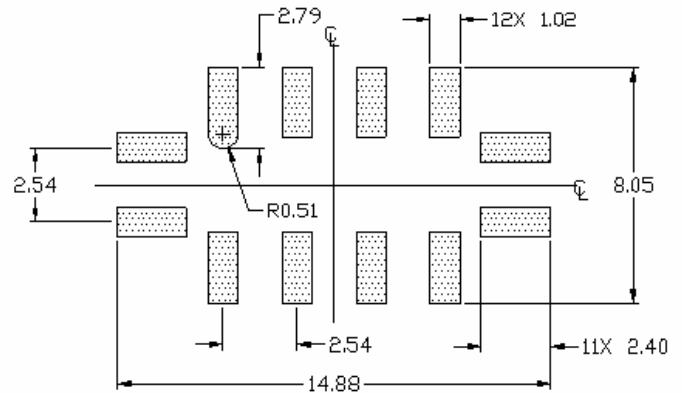


Package Material:  
Body:  $Al_2O_3$  ceramic  
Lid: Kovar, Ni plated  
Terminations: Au plating 1  $\mu$ m min,  
over a 1.3-8.9  $\mu$ m Ni plating

**MARKING**



**SUGGESTED FOOTPRINT**



**Units:** mm

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

**Pad Configuration:**

Input: 11  
Output: 5  
Ground: All other pads

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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