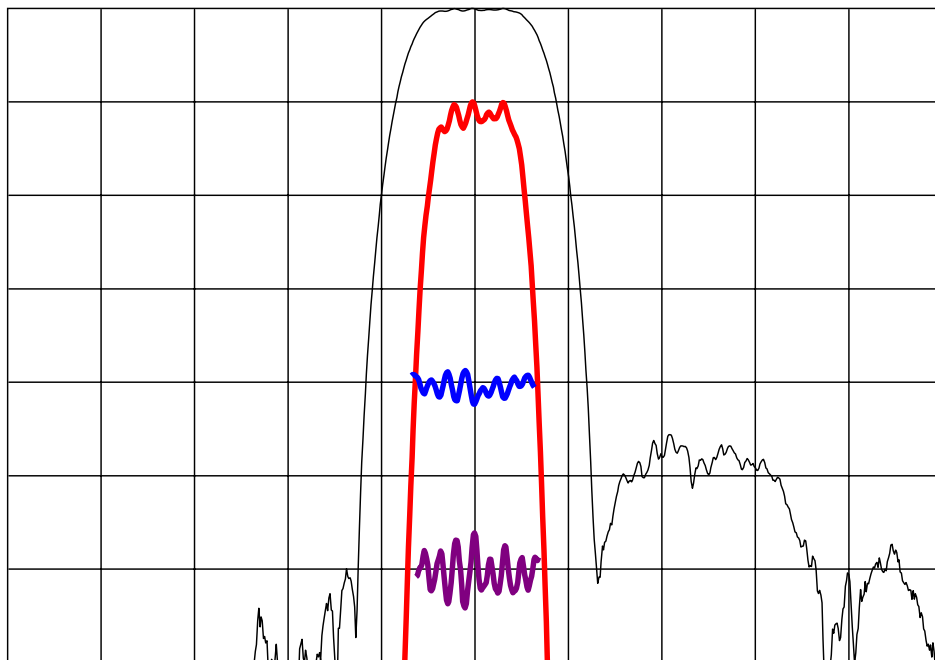


DESCRIPTION

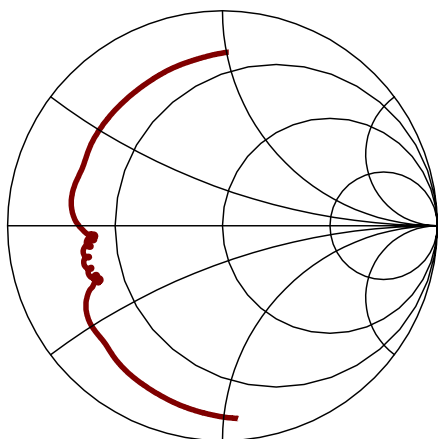
- 92.5 MHz SAW bandpass filter with 1.7 MHz bandwidth.
- 13.3 x 6.5 mm ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

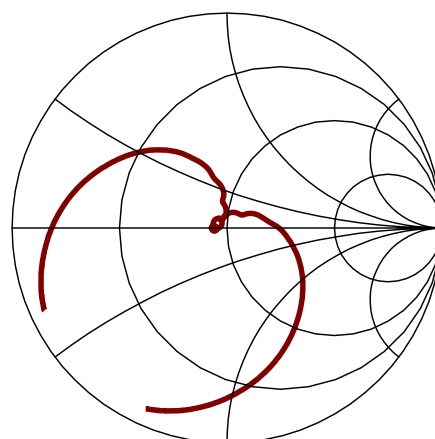


Horizontal: Frequency : 2 MHz/div
 Vertical: Relative Magnitude : 10 dB/div
 Relative Magnitude : 1 dB/div
 Phase Linearity : 5 deg/div
 Group Delay : 100 ns/div

S11 (82.5-102.5 MHz)



S22 (82.5-102.5 MHz)



SPECIFICATION

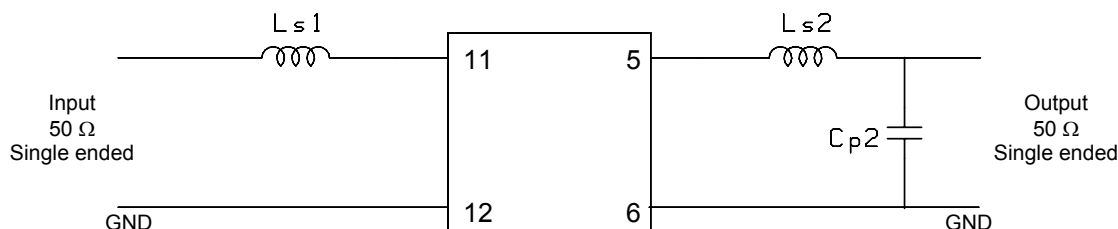
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	92.50	-	MHz
Insertion Loss at 92.5 MHz	17	18.2	22	dB
Amplitude Ripple (91.65 to 93.35 MHz)	-	0.5	0.7	dB p-p
Lower 0.7dB Band Edge Frequency ³	-	91.57	91.65	MHz
Upper 0.7dB Band Edge Frequency ³	93.35	93.52	-	MHz
Lower 15dB Band Edge Frequency ³	90.50	90.63	-	MHz
Upper 15dB Band Edge Frequency ³	-	94.42	94.50	MHz
Lower 40dB Band Edge Frequency ³	89.5	90.1	-	MHz
Upper 40dB Band Edge Frequency ³	-	94.9	95.5	MHz
Lower Sidelobe Attenuation (78-82 MHz)	45	50	-	dB
Upper Sidelobe Attenuation (97.5-122.5 MHz)	45	50	-	dB
Triple Transit Suppression	40	50	-	dB
Group Delay Ripple (91.65 to 93.35 MHz) ²	-	75	90	ns p-p
System Source and Load Impedance	-	50	-	ohm
Ambient Temperature	-	25	-	°C

- Notes:
1. Center Frequency: $F_c = (\text{Lower 15dB value} + \text{Upper 15dB value})/2$.
 2. A smoothing aperture of 150 kHz may be applied to this measurement.
 3. Measured relative to the Insertion Loss Value.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	10	70	°C
Input Power Level	-	13	dBm

MATCHING CIRCUIT



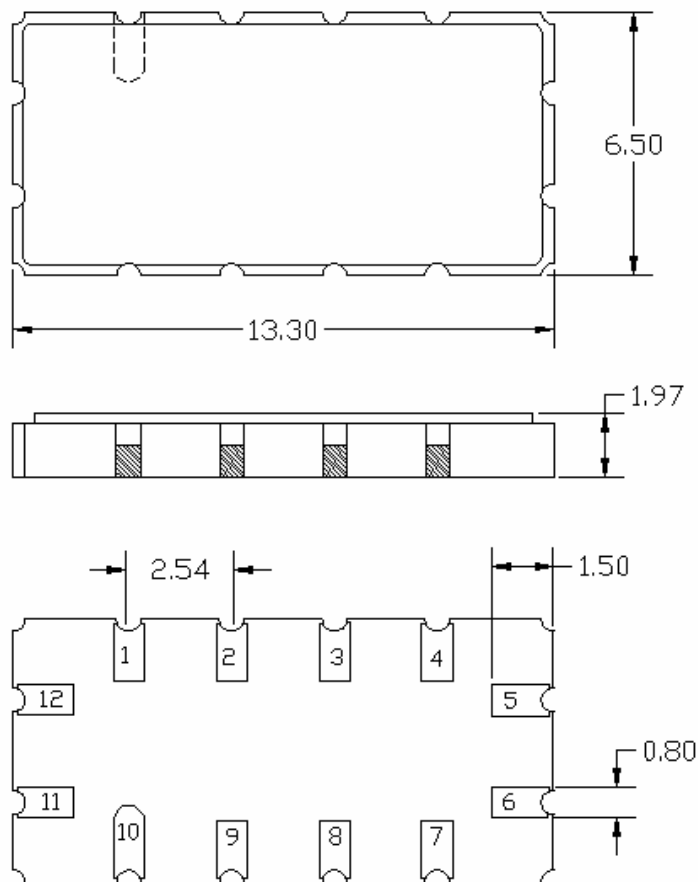
Typical Component Values: $L_{s1} = 400 \text{ nH}$ $L_{s2} = 420 \text{ nH}$

$C_{p2} = 56 \text{ pF}$

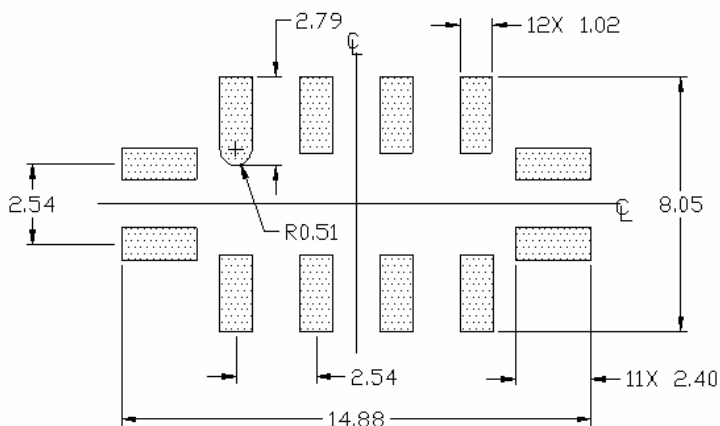
Notes:

1. Recommend $\pm 2\%$ tolerance matching components. Typical Inductor $Q=40$.
2. Values shown are for reference only and may change depending on board layout.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are typically ± 0.15 mm except where indicated.

Pad Configuration:

Input:	11
Input return:	12
Output:	5
Output return:	6
Case Ground:	All other pads

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