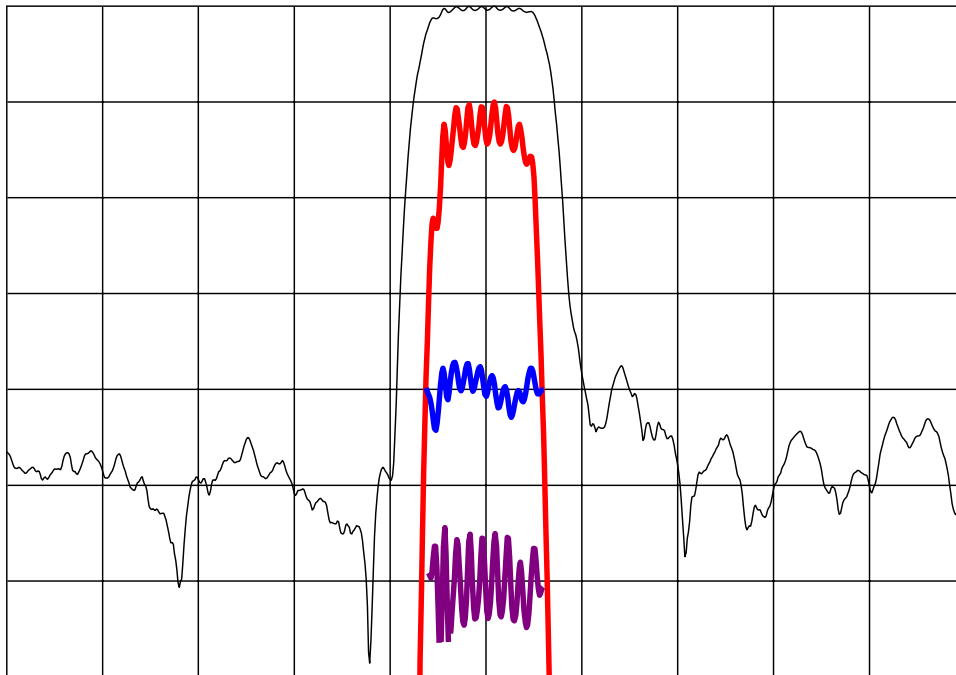


DESCRIPTION

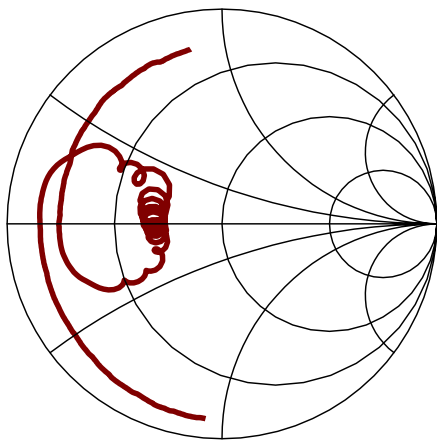
- 70 MHz SAW bandpass filter with 4 MHz bandwidth.
- 13.3 x 6.5 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

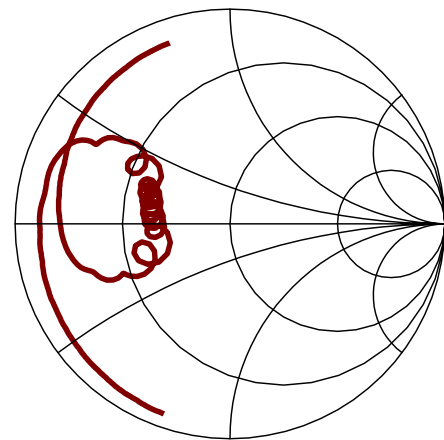


Horizontal: Frequency : 4 MHz/div
Vertical: Relative Magnitude : 10 dB/div
Relative Magnitude : 1 dB/div
Phase Linearity : 10 deg/div
Group Delay : 100 ns/div

S11 (50-90 MHz)



S22 (70-90 MHz)



SPECIFICATION

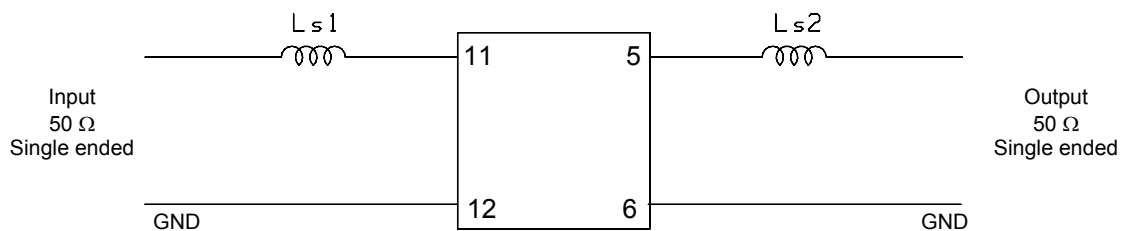
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	69.85	70	70.15	MHz
Insertion Loss	-	7.1	8	dB
1 dB Bandwidth	3.4	4.1	-	MHz
3 dB Bandwidth	4	4.9	-	MHz
35 dB Bandwidth	-	7.25	8	MHz
Passband Ripple	-	0.6	1	dB
Phase Deviation from Linear ²	-	4	7	deg
Group Delay Variation ²	-	100	150	ns
Absolute Delay	-	0.95	-	μs
Substrate	-	LiNbO ₃	-	-
Temperature Coefficient of Frequency (Tc) ³	-	-90	-	ppm/°C
Ambient Temperature (T _{ref})	-	25	-	°C
System Source and Load Impedance	-	50	-	Ω

- Notes:
1. Average of lower & upper 3 dB frequencies.
 2. Evaluated over 70% of the 3 dB bandwidth.
 3. Typical change of frequency response with temperature is $\Delta f = Fc \cdot (T - T_{ref}) \cdot Tc$ ppm.

MAXIMUM RATINGS

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

MATCHING CIRCUIT

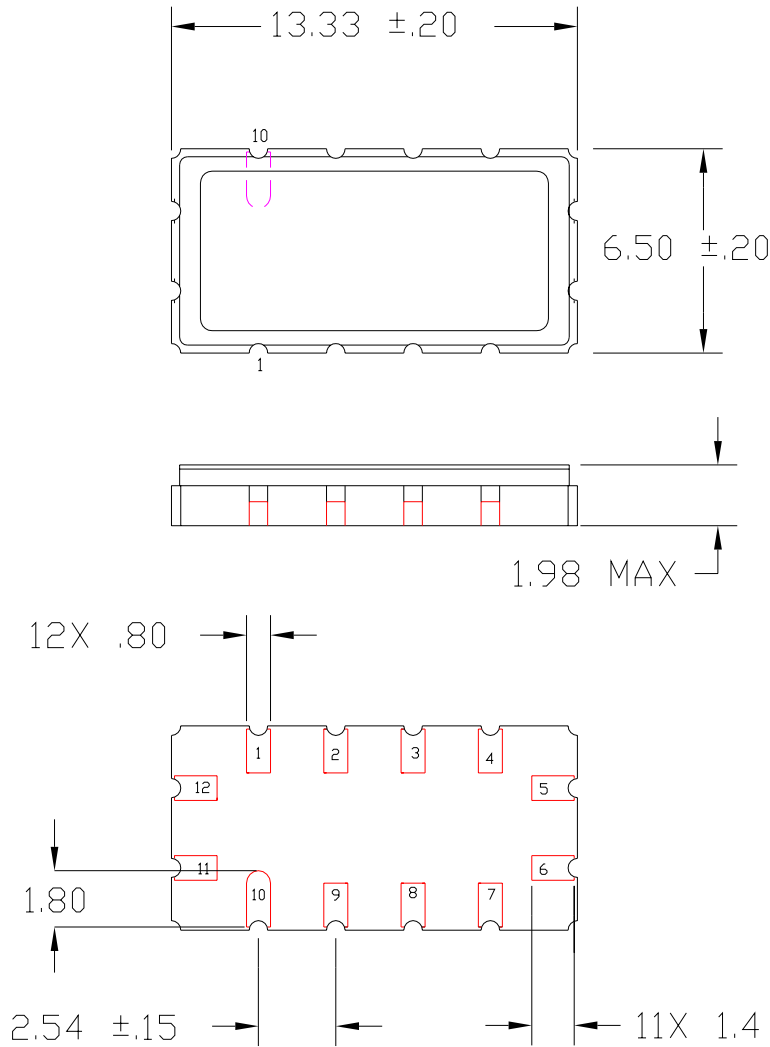


Component values in 50 Ω: Ls1 = 150 nH Ls2 = 120 nH

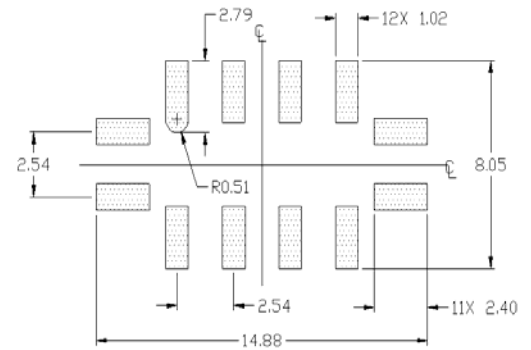
Notes:

1. Recommend +/-5% or better component tolerance. Typical inductor Q=40.
2. Optimum component values may change depending on board layout. The values shown here are intended as a guide only.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are ±0.15 mm except where indicated.

Pad Configuration:

Input: 11
Output: 5
Ground: All other pads

Package Material:
Body: Al₂O₃ ceramic
Lid: Kovar, Ni plated
Terminations: Au plating 1 µm min,
over a 1.3-8.9 µm 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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