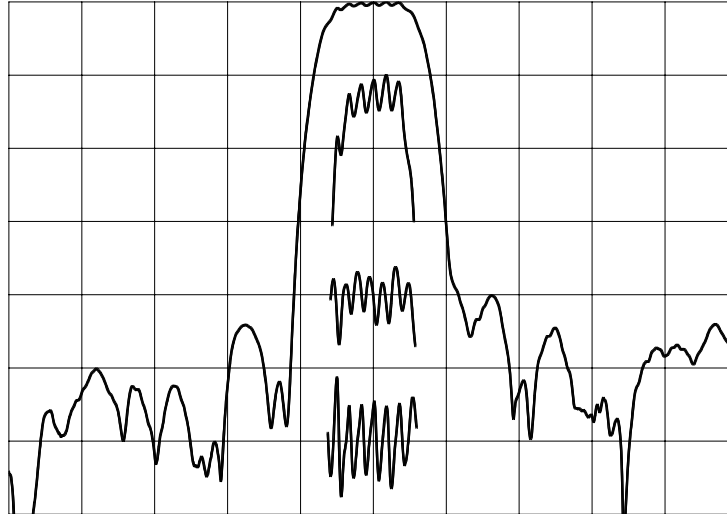




TYPICAL PERFORMANCE



Horizontal: 3 MHz/div

Vertical (from top):

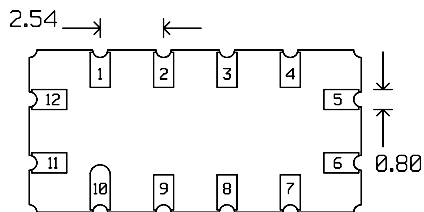
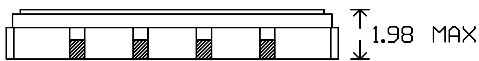
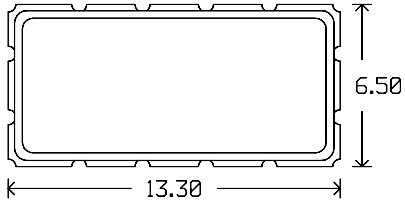
Magnitude 10.1 dB/div
Phase Deviation 5 deg/div
Group Delay Variation 100 ns/div

SPECIFICATION

| Parameter | Min | Typ | Max | Units |
|--|-------|--------------------|-------|--------|
| Center Frequency (Fc) ¹ | 69.85 | 70 | 70.15 | MHz |
| Insertion Loss | | 6.3 | 7.5 | dB |
| 1 dB Bandwidth | 2.3 | 3.1 | | MHz |
| 3 dB Bandwidth | 3 | 3.7 | | MHz |
| 35 dB Bandwidth | | 6.3 | 7.5 | MHz |
| Passband Ripple | | 0.6 | 1 | dB |
| Phase Deviation from Linear ² | | 4 | 6 | deg |
| Group Delay Variation ² | | 120 | 175 | ns |
| Absolute Delay | | 0.94 | | μs |
| Substrate | | LiNbO ₃ | | - |
| Temperature Coefficient of Frequency (Tc) ³ | | -90 | | ppm/°C |
| Ambient Temperature | | 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 filter frequency response with temperature is $\Delta f/f_{ref} = (T-T_{ref}) * Tc$ ppm.

PACKAGE OUTLINE



Units: mm

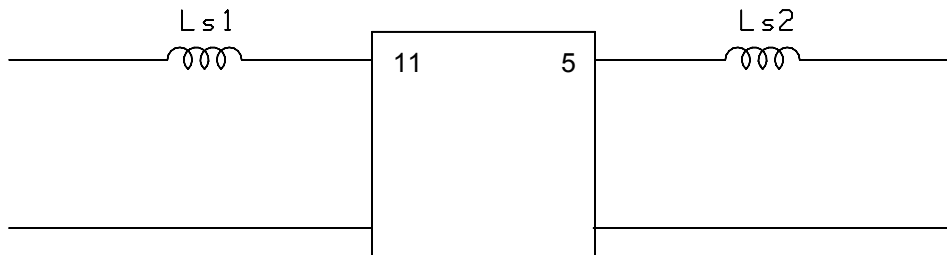
Pin Configuration:

Input: 11

Output: 5

Ground: 1,2,3,4,6,7,8,9,10,12

MATCHING CIRCUIT



Component values in 50 Ω : $L_{s1} = 120$ nH
(Minimum Q = 45)

$L_{s2} = 68$ nH

Notes

- Optimum component values may change depending on board layout. The values shown here are intended as a guide only.