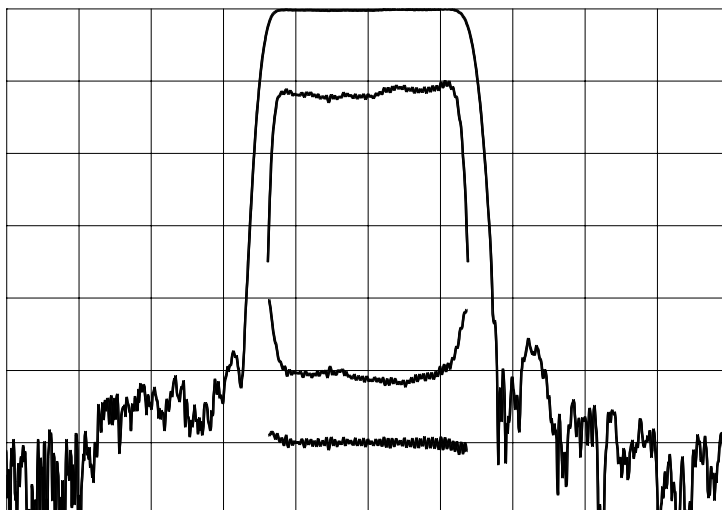


## TYPICAL PERFORMANCE



Horizontal: 8 MHz/div

Vertical (from top):

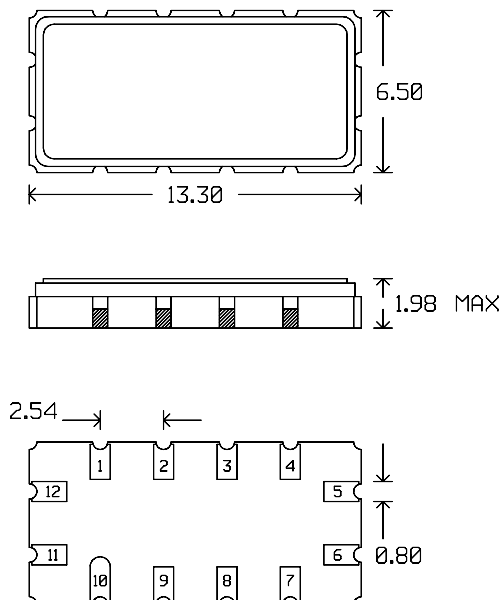
Magnitude 10 dB/div  
 Magnitude 1 dB/div  
 Phase Deviation 5 deg/div  
 Group Delay Variation 100 ns/div

## SPECIFICATION

| Parameter                                              | Min  | Typ                | Max  | Units  |
|--------------------------------------------------------|------|--------------------|------|--------|
| Center Frequency (Fc) <sup>1</sup>                     | 69.8 | 70                 | 70.2 | MHz    |
| Insertion Loss                                         |      | 15.0               | 16   | dB     |
| 1 dB Bandwidth                                         | 20.3 | 21.3               |      | MHz    |
| 3 dB Bandwidth                                         | 22   | 22.4               |      | MHz    |
| 40 dB Bandwidth                                        |      | 27.5               | 28   | MHz    |
| Passband Ripple                                        |      | 0.4                | 1.0  | dB     |
| Phase Deviation from Linear <sup>2</sup>               |      | 3                  | 11   | deg    |
| Group Delay Variation <sup>2</sup>                     |      | 25                 | 100  | ns     |
| Absolute Delay                                         |      | 1.12               |      | μs     |
| Substrate                                              |      | LiNbO <sub>3</sub> |      | -      |
| Temperature Coefficient of Frequency (Tc) <sup>3</sup> |      | -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 90% of the 3 dB bandwidth.
  3. Typical change of filter frequency response with temperature is  $\Delta f/f_{ref} = (T - T_{ref}) \cdot T_c$  ppm.

## PACKAGE OUTLINE

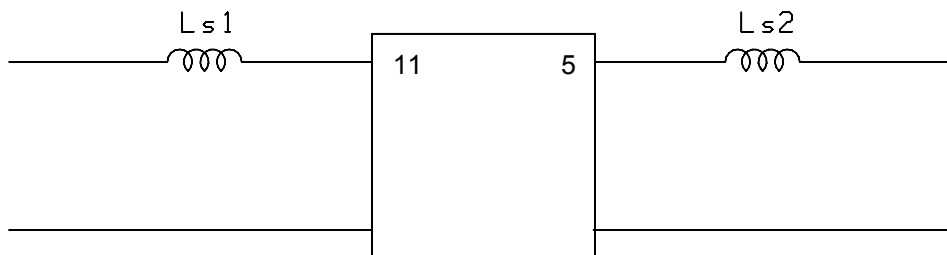


Units: mm

### Pin Configuration:

Input: 11  
 Output: 5  
 Ground: 1,2,3,4,6,7,8,9,10,12

## MATCHING CIRCUIT



Component values in 50  $\Omega$ :  $L_{s1} = 100$  nH  
 (Minimum  $Q = 45$ )

$L_{s2} = 120$  nH

### Notes

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