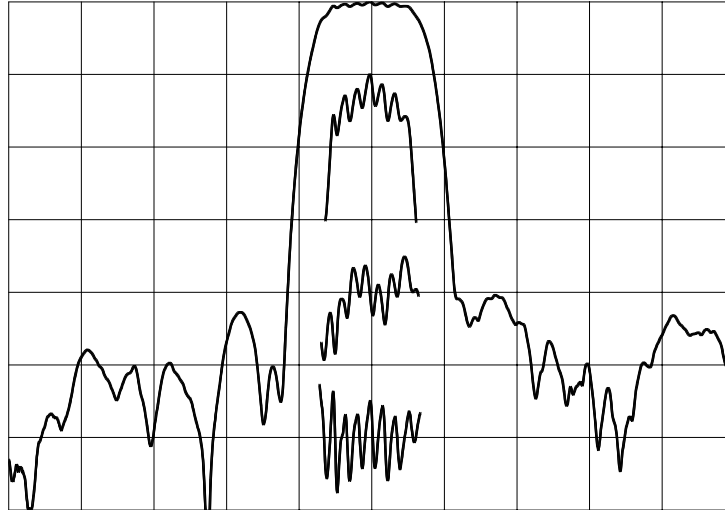




## TYPICAL PERFORMANCE



Horizontal: 3 MHz/div

Vertical (from top):

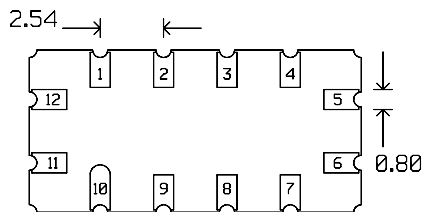
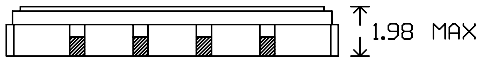
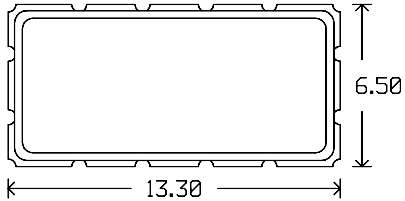
Magnitude 10,1 dB/div  
Phase Deviation 5 deg/div  
Group Delay Variation 100 ns/div

## SPECIFICATION

| Parameter  | Min   | Typ                | Max   | Units  |
|--|-------|--------------------|-------|--------|
| Center Frequency (Fc) <sup>1</sup>                     | 69.85 | 70                 | 70.15 | MHz    |
| Insertion Loss   |       | 6.4                | 7.7   | dB     |
| 1 dB Bandwidth   | 2.85  | 3.45               |       | MHz    |
| 3 dB Bandwidth   | 3.5   | 4.2                |       | MHz    |
| 35 dB Bandwidth  |       | 6.7                | 7.75  | MHz    |
| Passband Ripple  |       | 0.7                | 1     | dB     |
| Phase Deviation from Linear <sup>2</sup>               |       | 4                  | 7     | deg    |
| Group Delay Variation <sup>2</sup>                     |       | 110                | 175   | ns     |
| Absolute Delay   |       | 0.95               |       | 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 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

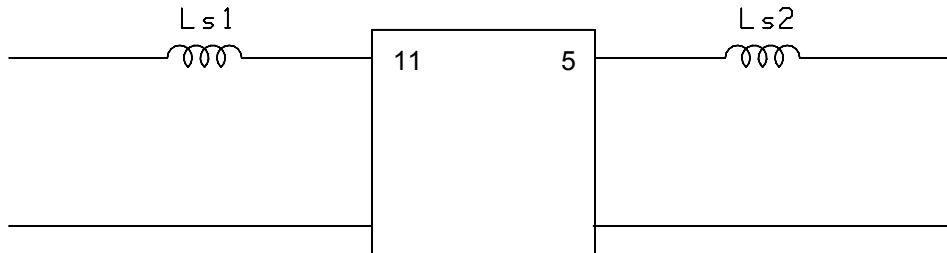
### Pin Configuration:

Input: 11

Output: 5

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

## MATCHING CIRCUIT



Component values in 50  $\Omega$ : Ls1 = 120 nH  
(Minimum Q = 45)

Ls2 = 120 nH

### Notes

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