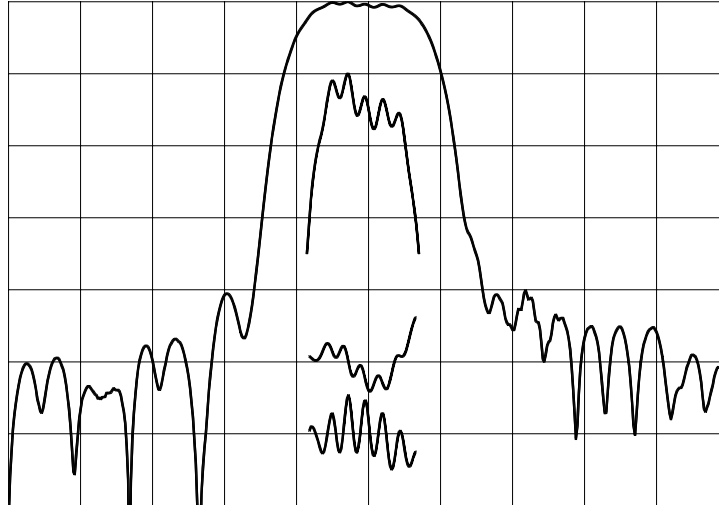




## TYPICAL PERFORMANCE



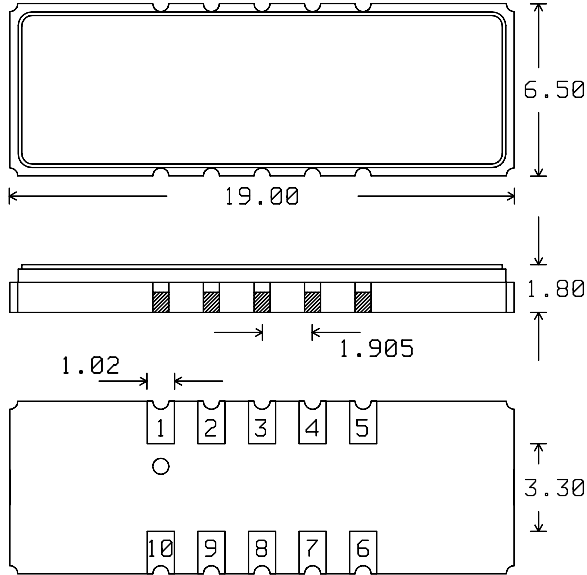
Horizontal: 1 MHz/div    Vertical (from top): Magnitude    10.1 dB/div  
 Phase Deviation    10 deg/div  
 Group Delay Variation    250 ns/div

## SPECIFICATION

| Parameter  | Min   | Typ                | Max   | Units  |
|--|-------|--------------------|-------|--------|
| Center Frequency (Fc) <sup>1</sup>                     | 69.90 | 70.00              | 70.10 | MHz    |
| Insertion Loss   |       | 8.4                | 8.75  | dB     |
| 1 dB Bandwidth   | 1.0   | 1.35               |       | MHz    |
| 3 dB Bandwidth   | 1.5   | 1.69               |       | MHz    |
| 36 dB Bandwidth  |       | 3.1                | 3.3   | MHz    |
| Passband Ripple  |       | 0.8                | 1.0   | dB     |
| Phase Deviation from Linear <sup>2</sup>               |       | 5.7                | 7.0   | deg    |
| Group Delay Variation <sup>2</sup>                     |       | 245                | 425   | ns     |
| Absolute Delay   |       | 2.1                |       | μs     |
| Substrate  |       | LiTaO <sub>3</sub> |       | -      |
| Temperature Coefficient of Frequency (Tc) <sup>3</sup> |       | -23                |       | 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 60% 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**

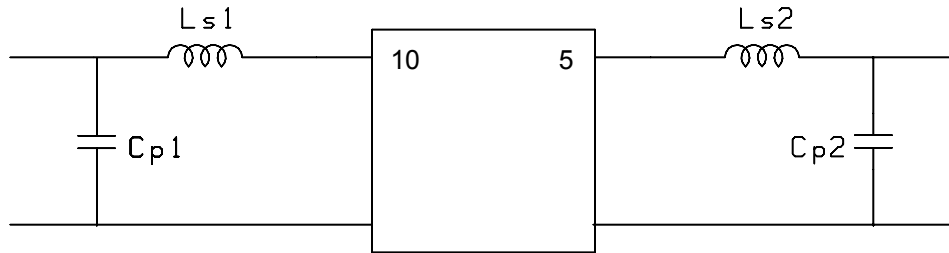


Units: mm

**Pin Configuration:**

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

**MATCHING CIRCUIT**



Component values in 50 Ω: Ls1 = 120 nH Cp1 = 82 pF Ls2 = 150 nH Cp2 = 82 pF  
(Minimum Q = 40)

**Notes**

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

