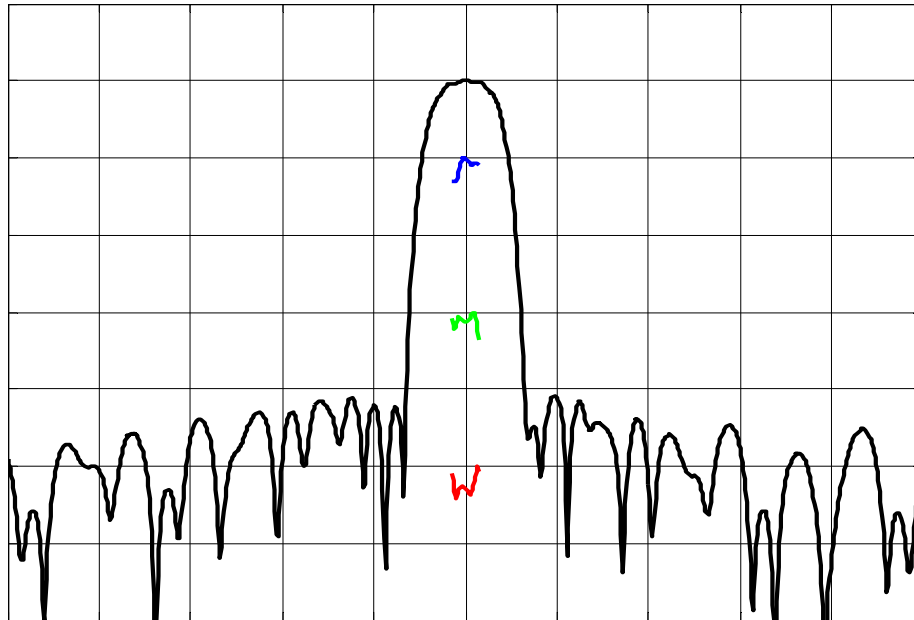



**TYPICAL PERFORMANCE**


Horizontal: 1 MHz/div

Vertical (from top):

Magnitude

10 &amp; 1

dB/div

Phase Deviation

5

deg/div

Group Delay Variation

500

ns/div

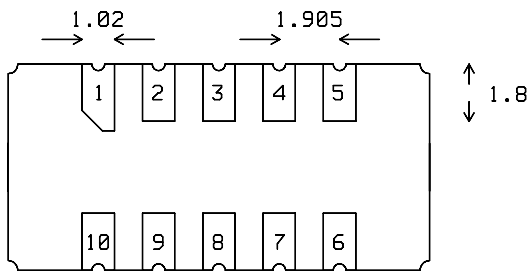
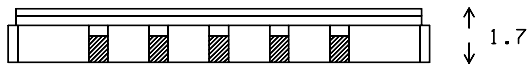
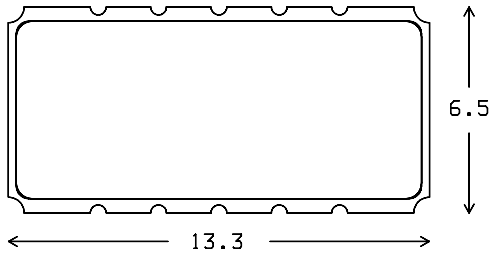
**SPECIFICATION**

| Parameter   | Min    | Typ  | Max   | Units        |
|---|--------|--|-------|--------------|
| Center Frequency ( $F_c$ ) <sup>1</sup>             | 69.95  | 70   | 70.05 | MHz          |
| Insertion Loss                                      |        | 9.3  | 9.5   | dB           |
| 1 dB Bandwidth                                      | 0.35   | 0.45                                       |       | MHz          |
| 3 dB Bandwidth                                      | 0.50   | 0.64                                       |       | MHz          |
| 35 dB Bandwidth                                     |        | 1.24                                       | 1.4   | MHz          |
| Passband Ripple                                     |        | 0.48                                       | 1     | dB p-p       |
| Phase Deviation from Linear (60% of 3 dB Bandwidth) |        | 3.1  | 6.75  | deg p-p      |
| Group Delay Variation (60% of 3 dB Bandwidth)       |        | 340  | 500   | ns p-p       |
| Absolute Delay                                      |        | 1.46                                       |       | $\mu$ s      |
| Substrate Material                                  | Quartz |  |       |              |
| Temperature Coefficient                             |        | $\Delta F/F = -(T - T_0)/5.4$ <sup>2</sup> |       | ppm          |
| Operating Temperature Range                         | -      | 25   | -     | $^{\circ}$ C |

Notes: 1. Average of lower and upper 3 dB frequencies.



**PACKAGE OUTLINE**

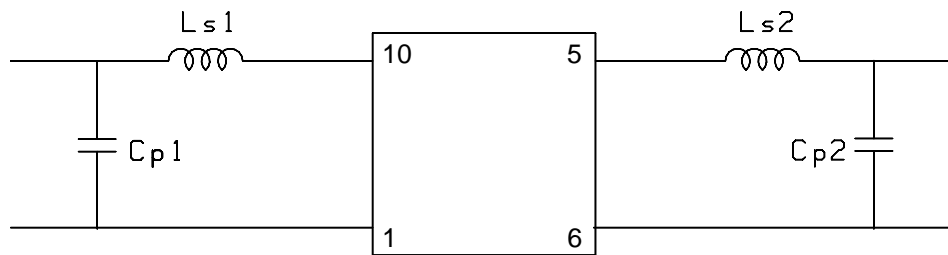


**Units: mm**

**Pin Configuration:**

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

**MATCHING CIRCUIT**



Typical component values:      Ls1 = 560 nH      Ls2 = 560 nH  
Minimum Q = 40                      Cp1 = 68 pF                      Cp2 = 91 pF

**Notes**

- Maximum 5% tolerance matching components shall be used.
- Tuning values shown are for reference only. Optimum values may change depending upon board layout.

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