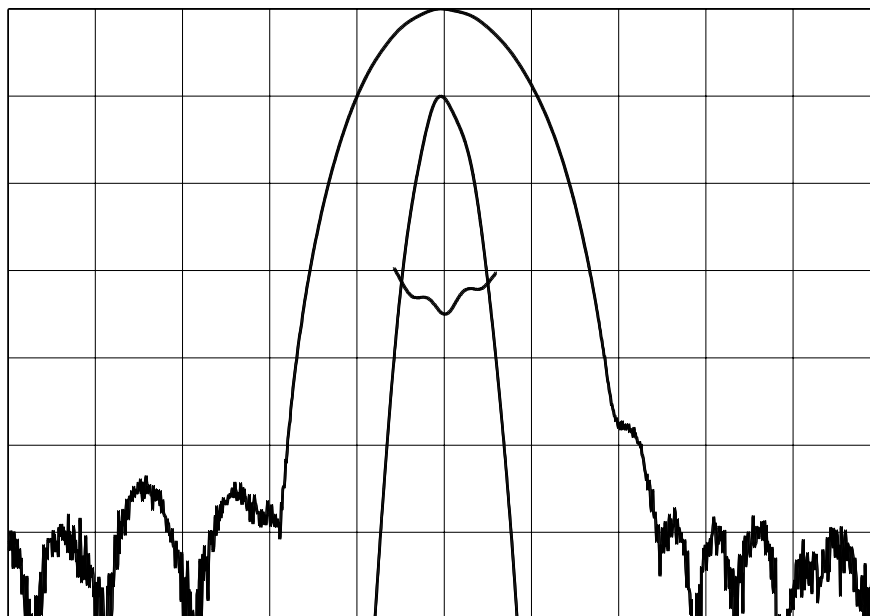




## TYPICAL PERFORMANCE



Horizontal: 0.5 MHz/div

Vertical (from top):

Magnitude

10 dB/div

Magnitude

1 dB/div

Phase

5 deg/div

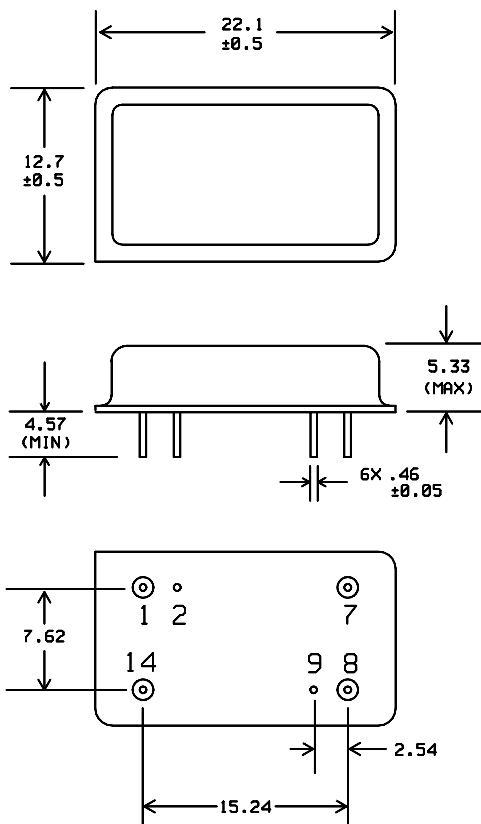
## SPECIFICATION

| Parameter                           | Min.   | Typ.  | Max.  | Units.  |
|-------------------------------------|--------|-------|-------|---------|
| Center Frequency ( Fc) <sup>1</sup> | 69.95  | 70.00 | 70.05 | MHz     |
| Insertion Loss at Fc                |        | 20    | 23    | dB      |
| 1 dB Bandwidth                      | 0.3    | 0.33  |       | MHz     |
| 3 dB Bandwidth                      | 0.5    | 0.57  |       | MHz     |
| 40 dB Bandwidth                     |        | 1.76  | 1.9   | MHz     |
| Passband Ripple                     |        | 0.1   | 0.2   | dB      |
| Phase Ripple                        |        | 1     | 3     | deg p-p |
| Group Delay Ripple                  |        | 100   | 300   | ns p-p  |
| Absolute Delay                      |        | 2.3   |       | us      |
| Ultimate Rejection                  | 50     | 60    |       | dB      |
| Substrate Material                  | Quartz |       |       |         |
| Ambient Temperature                 |        | 25    |       | ° C     |

Notes:

1: Mean Value of 3 dB points

## PACKAGE OUTLINE

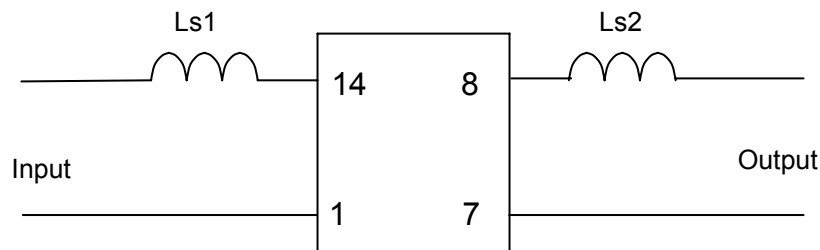


Units: mm

### Pin Configuration:

Input: 14  
Input Return: 1  
Output: 8  
Output Return: 7  
Ground: 2, 9

## MATCHING CIRCUIT



Component values:

Ls1 = 510 nH

Ls2 = 220 nH

(Minimum Q = 45)

### Notes

- 1: Recommend use of 2% tolerance components.
- 2: Optimum Values depend on board layout. Values intended as guide only.

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