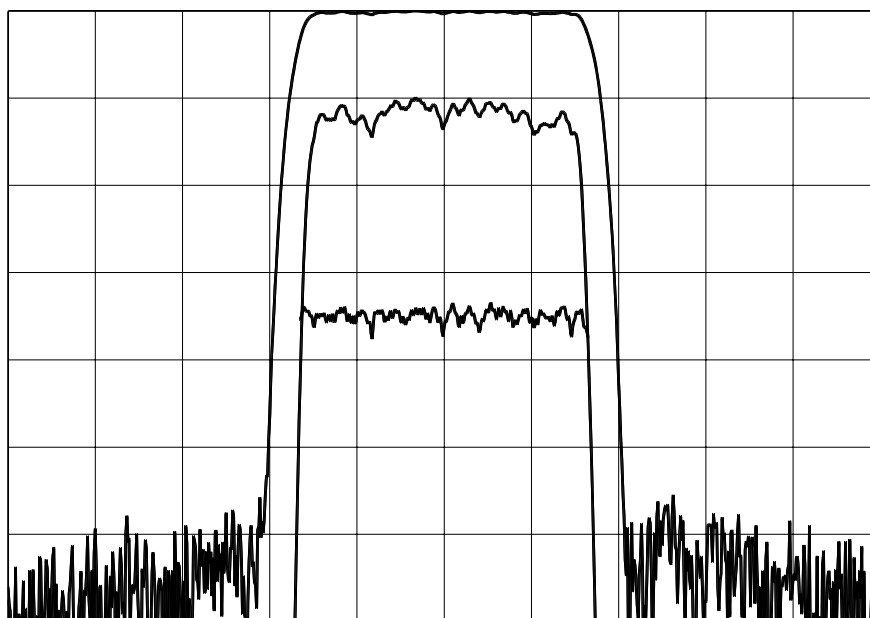


## TYPICAL PERFORMANCE



Horizontal: 10 MHz/div

Vertical (from top):

Magnitude

10 dB/div

Magnitude

1 dB/div

Group Delay

50 ns/div

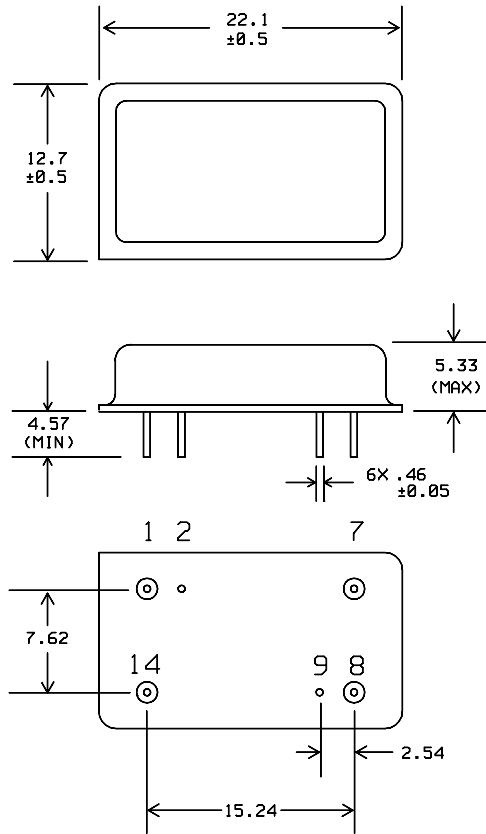
## SPECIFICATION

| Parameter                            | Min.               | Typ.  | Max.   | Units.  |
|--------------------------------------|--------------------|-------|--------|---------|
| Center Frequency ( Fc ) <sup>1</sup> | 139.75             | 140.0 | 140.25 | MHz     |
| Insertion Loss at Fc                 |                    | 24.0  | 27     | dB      |
| 1 dB Bandwidth                       | 30                 | 30.9  |        | MHz     |
| 3 dB Bandwidth                       | 32                 | 32.8  |        | MHz     |
| 40 dB Bandwidth                      |                    | 39.6  | 40     | MHz     |
| Passband Ripple                      |                    | 0.5   | 0.7    | dB p-p  |
| Phase Ripple                         |                    | 3.0   | 6      | deg p-p |
| Group Delay Ripple                   |                    | 20    | 40     | ns p-p  |
| Absolute Delay                       |                    | 1.05  |        | us      |
| Ultimate Rejection                   | 50                 | 60    |        | dB      |
| Temperature Coefficient of Frequency |                    | -96   |        | ppm/° C |
| Substrate Material                   | YZ Lithium Niobate |       |        |         |
| Source and Load Impedance            |                    | 50    |        | Ω       |
| Ambient Temperature                  |                    | 25    |        | ° C     |

Notes:

1: Mean Value of 3 dB band edges.

## PACKAGE OUTLINE

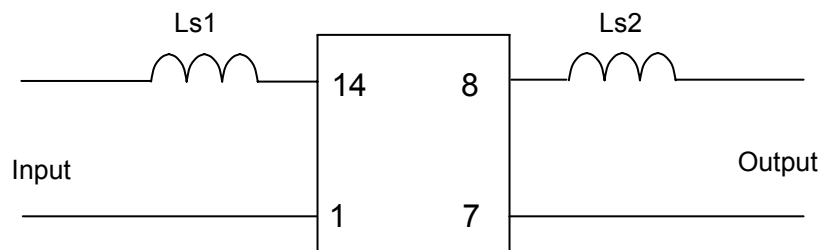


Units: mm

### Pin Configuration:

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

## MATCHING CIRCUIT



Component values :

$Ls1 = 56$  nH     $Ls2 = 39$  nH    (Minimum Q = 45)

Notes

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

ISO 9001  
Registered

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