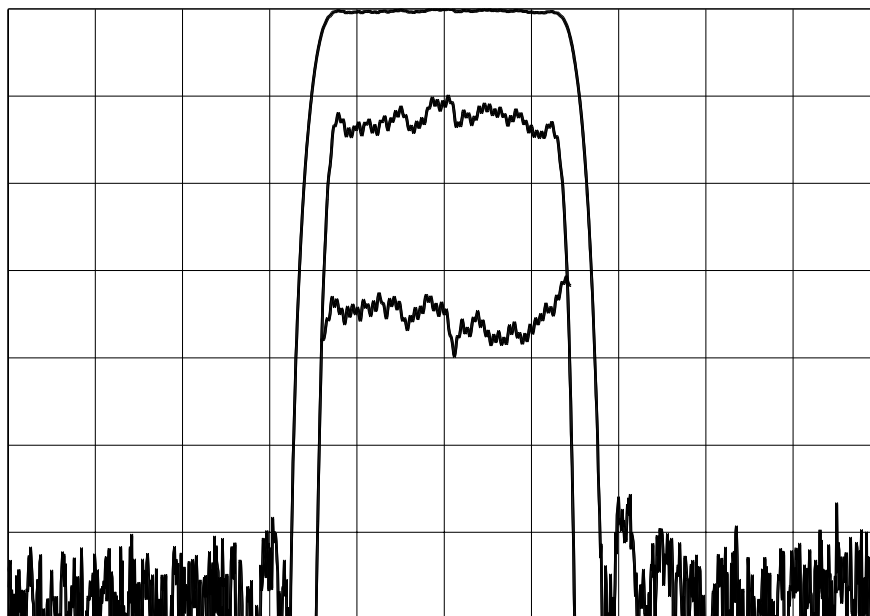




## TYPICAL PERFORMANCE



Horizontal: 5.0 MHz/div      Vertical (from top):      Magnitude      10 dB/div  
Magnitude      1 dB/div  
Phase      5 deg/div

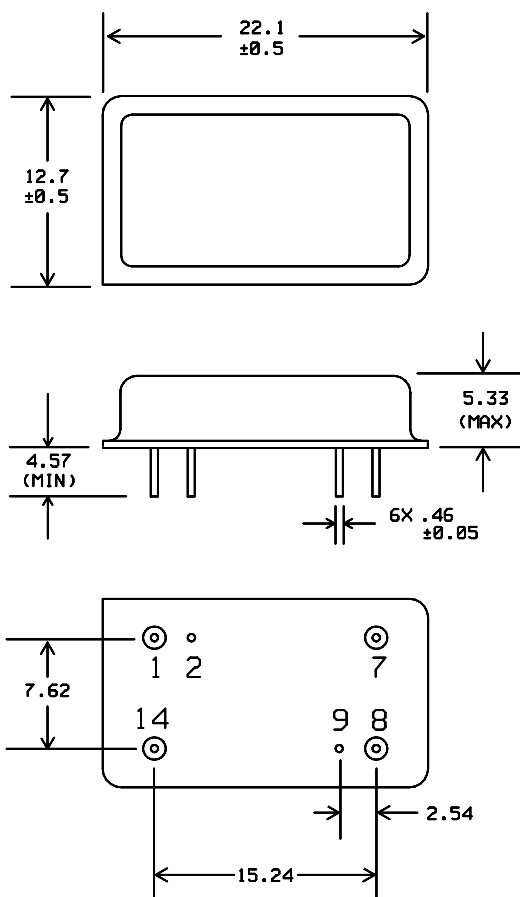
## SPECIFICATION

| Parameter                            | Min.               | Typ.  | Max.  | Units.  |
|--------------------------------------|--------------------|-------|-------|---------|
| Center Frequency ( Fc) <sup>1</sup>  | 139.8              | 140.0 | 140.2 | MHz     |
| Insertion Loss at Fc                 |                    | 21.0  | 24    | dB      |
| 1 dB Bandwidth                       | 13.2               | 13.4  |       | MHz     |
| 3 dB Bandwidth                       | 14                 | 14.2  |       | MHz     |
| 40 dB Bandwidth                      |                    | 17.1  | 17.6  | MHz     |
| Passband Ripple                      |                    | 0.5   | 0.6   | dB      |
| Phase Ripple                         |                    | 4.0   | 6     | deg p-p |
| Group Delay Ripple                   |                    | 30    | 90    | ns p-p  |
| Absolute Delay                       |                    | 1.67  |       | 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

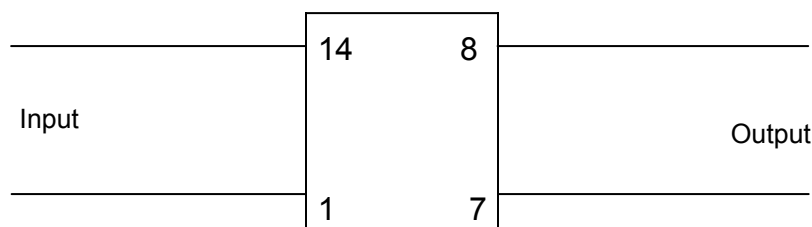


**Units:** mm

### Pin Configuration:

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

## MATCHING CIRCUIT



No Matching required

ISO 9001  
Registered