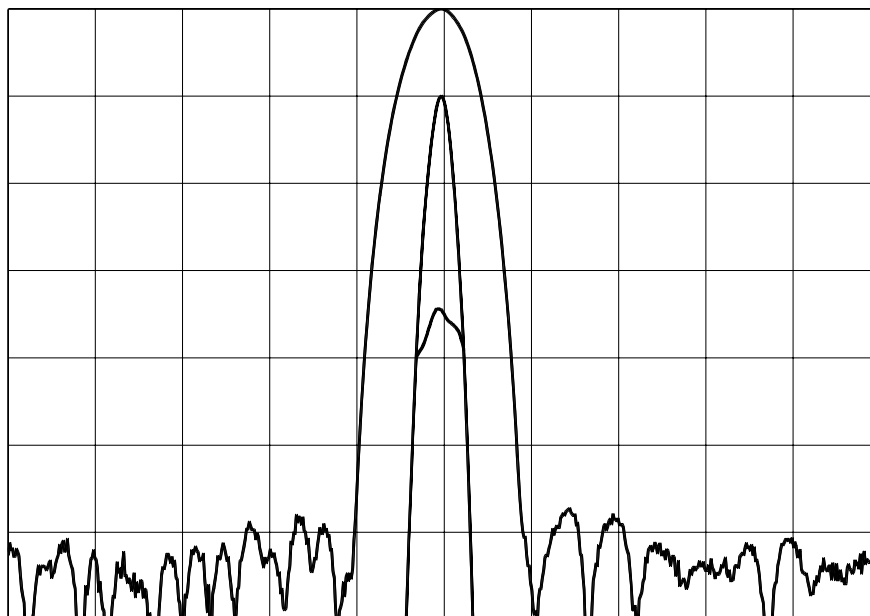


## TYPICAL PERFORMANCE



Horizontal: 0.5 MHz/div    Vertical (from top):  
 Magnitude    10 dB/div  
 Magnitude    1 dB/div  
 Phase    5 deg/div

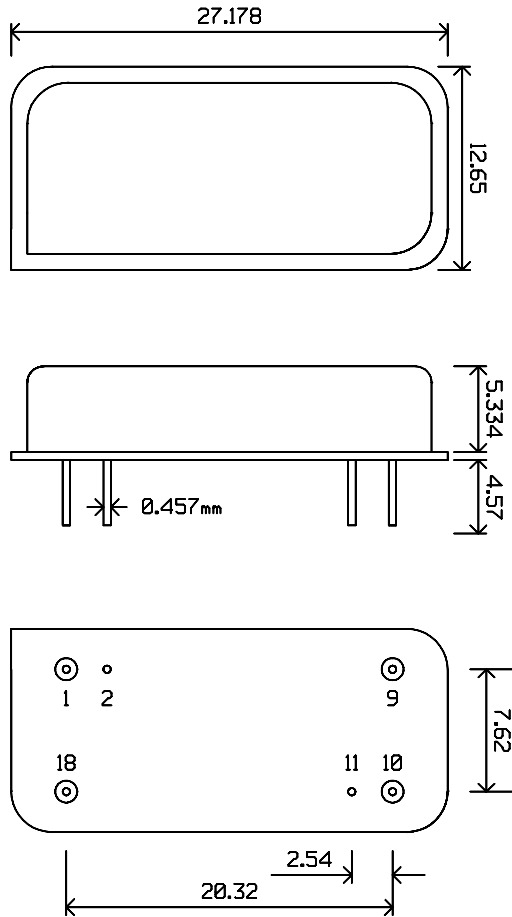
## SPECIFICATION

| Parameter                            | Min.   | Typ.  | Max.   | Units.  |
|--------------------------------------|--------|-------|--------|---------|
| Center Frequency ( Fc ) <sup>1</sup> | 139.95 | 140.0 | 140.05 | MHz     |
| Insertion Loss at Fc                 |        | 19.5  | 22     | dB      |
| 1 dB Bandwidth                       | 0.14   | 0.16  |        | MHz     |
| 3 dB Bandwidth                       | 0.25   | 0.27  |        | MHz     |
| 40 dB Bandwidth                      |        | 0.84  | 0.95   | MHz     |
| Passband Ripple                      |        | 0.01  | 0.1    | dB      |
| Phase Ripple                         |        | 3.0   | 5      | deg p-p |
| Group Delay Ripple                   |        | 150   | 300    | ns p-p  |
| Absolute Delay                       |        | 3.62  |        | us      |
| Ultimate Rejection                   | 50     | 60    |        | dB      |
| Substrate Material                   | Quartz |       |        |         |
| Source and Load Impedance            | 50     |       |        | Ω       |
| Ambient Temperature                  |        | 25    |        | ° C     |

### Notes:

1: Mean Value of 3 dB band edges.

## PACKAGE OUTLINE

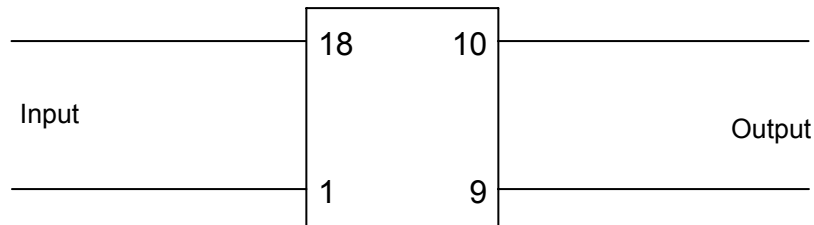


Units: mm

### Pin Configuration:

Input: 18  
 Input Return: 1  
 Output: 10  
 Output Return: 9  
 Ground: 2, 11

## MATCHING CIRCUIT



No matching required

ISO 9001  
Registered