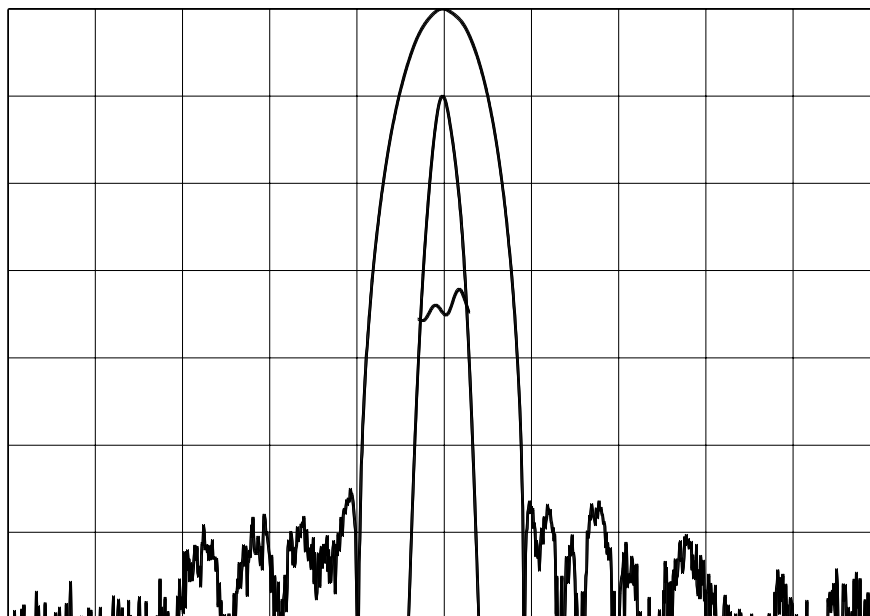




## TYPICAL PERFORMANCE



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

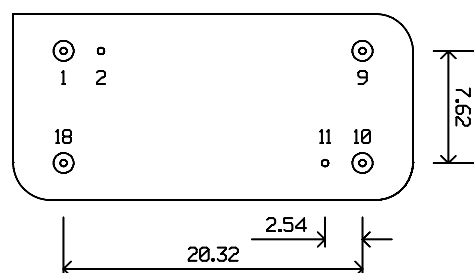
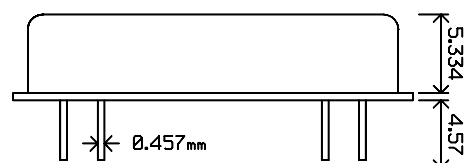
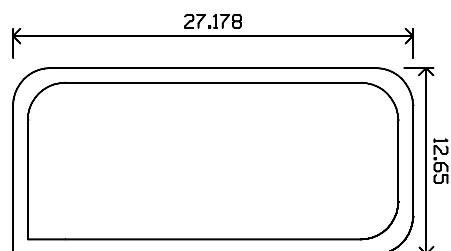
## SPECIFICATION

| Parameter                           | Min.   | Typ.  | Max.  | Units.  |
|-------------------------------------|--------|-------|-------|---------|
| Center Frequency ( Fc) <sup>1</sup> | 69.96  | 70.00 | 70.04 | MHz     |
| Insertion Loss at Fc                |        | 16    | 18    | dB      |
| 1 dB Bandwidth                      | 0.16   | 0.18  |       | MHz     |
| 3 dB Bandwidth                      | 0.25   | 0.3   |       | MHz     |
| 40 dB Bandwidth                     |        | 0.89  | 1     | MHz     |
| Passband Ripple                     |        | 0.02  | 0.1   | dB      |
| Phase Ripple                        |        | 1.4   | 3     | deg p-p |
| Group Delay Ripple                  |        | 200   | 300   | ns p-p  |
| Absolute Delay                      |        | 3.4   |       | us      |
| Ultimate Rejection                  | 50     | 60    |       | dB      |
| Substrate Material                  | Quartz |       |       |         |
| Ambient Temperature                 |        | 25    |       | ° C     |

### Notes:

1: Mean Value of 3 dB points

## PACKAGE OUTLINE

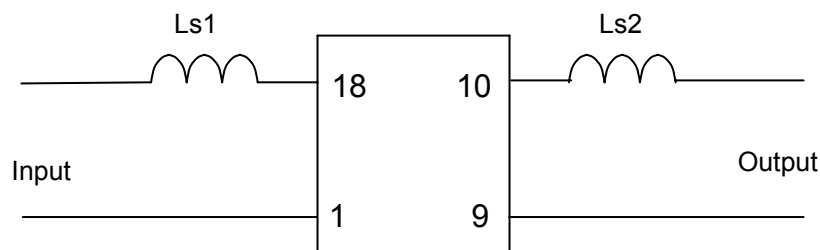


**Units:** mm

### Pin Configuration:

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

## MATCHING CIRCUIT



Component values:

Ls1 = 68 nH

Ls2 = 68 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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