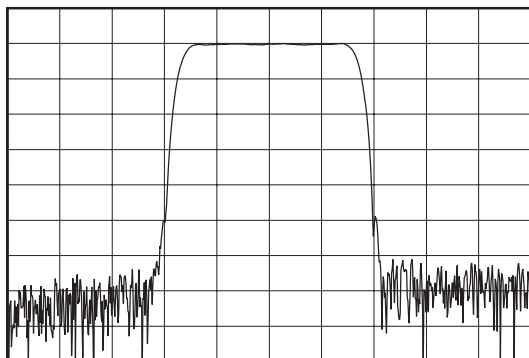
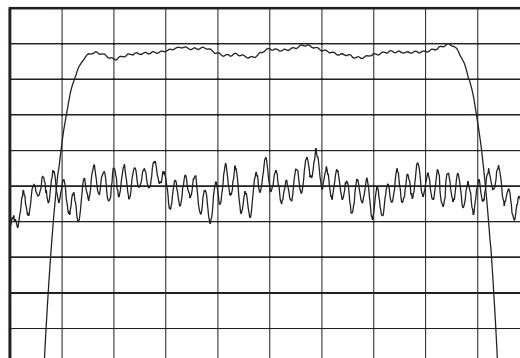


#### Typical Performance



Horizontal: 5 MHz/Div  
Vertical: 14.5 dB/Div

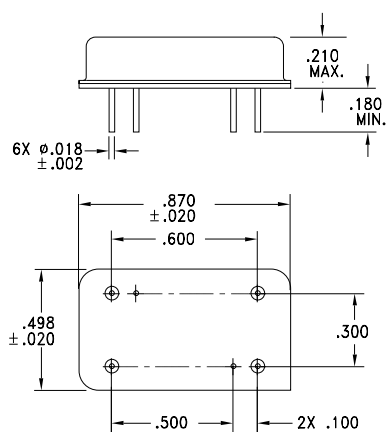


Horizontal: 2 MHz/Div  
Vertical: 1 dB/Div  
Vertical: 10 nsec/Div

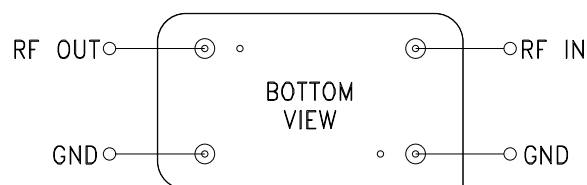
#### Specifications

| Parameter             | Unit | Minimum | Typical               | Maximum |
|-----------------------|------|---------|-----------------------|---------|
| Center Frequency      | MHz  | 139.8   | 140                   | 140.2   |
| Insertion Loss        | dB   | -       | 22.8                  | 25      |
| 1 dB Bandwidth        | MHz  | 15      | 15.18                 | -       |
| 3 dB Bandwidth        | MHz  | 16      | 16.19                 | -       |
| 40 dB Bandwidth       | MHz  | -       | 19.5                  | 20.2    |
| Passband Variation    | dB   | -       | 0.4                   | 0.7     |
| Phase Linearity       | deg  | -       | 2.8                   | 6       |
| Group Delay Variation | nsec | -       | 20                    | 60      |
| Absolute Delay        | μsec | -       | 1.586                 | -       |
| Ultimate Rejection    | dB   | 50      | 63                    | -       |
| Substrate Material    | -    | -       | YZ LiNbO <sub>3</sub> | -       |
| Ambient Temperature   | °C   | -       | 25                    | -       |

#### Package Outline



#### Matching Configuration



No Matching Required  
Nominal Source/Load Impedance = 50Ω  
Package Style I

11/24/99