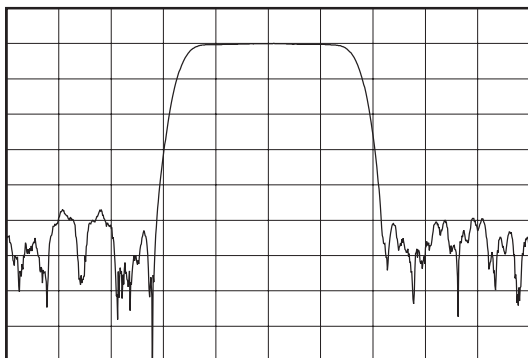
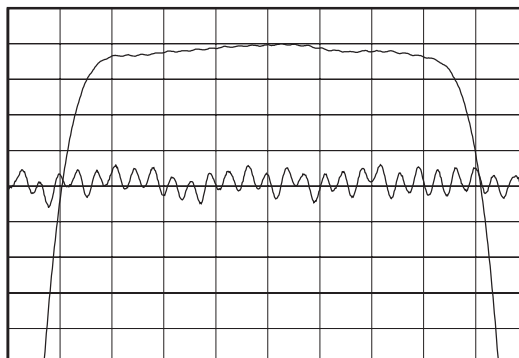


# Data Sheet

## Typical Performance



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

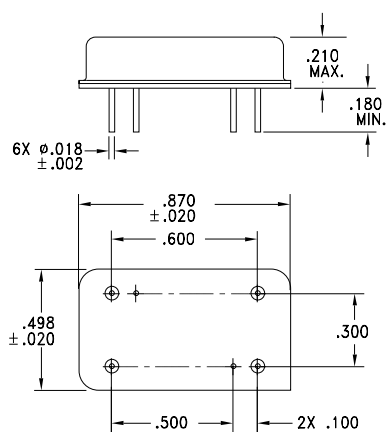


Horizontal: 800 kHz/Div  
 Vertical: 1 dB/Div  
 Vertical: 50 nsec/Div

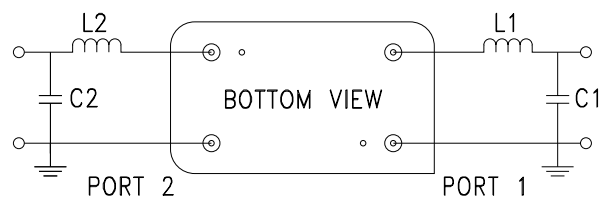
## Specifications

| Parameter               | Unit | Minimum | Typical | Maximum |
|-------------------------|------|---------|---------|---------|
| Center Frequency        | MHz  | 139.8   | 140     | 140.2   |
| Insertion Loss at $F_0$ | dB   | -       | 26.5    | 28      |
| 1 dB Bandwidth          | MHz  | 5.6     | 5.75    | -       |
| 3 dB Bandwidth          | MHz  | 6       | 6.3     | -       |
| 40 dB Bandwidth         | MHz  | -       | 8.22    | 8.4     |
| Passband Variation      | dB   | -       | 0.35    | 0.7     |
| Phase Linearity         | deg  | -       | 1.8     | 4       |
| Group Delay Variation   | nsec | -       | 44      | 110     |
| Absolute Delay          | μsec | -       | 2.35    | -       |
| Ultimate Rejection      | dB   | 50      | 60      | -       |
| Substrate Material      | -    | -       | Quartz  | -       |
| Ambient Temperature     | °C   | -       | 25      | -       |

## Package Outline



## Matching Configuration



L1 = 135 nH, L2 = 140 nH  
 C1 = 52 pf, C2 = 109 pf  
 Nominal Source/Load Impedance = 50Ω  
 Package Style I

11/24/99