

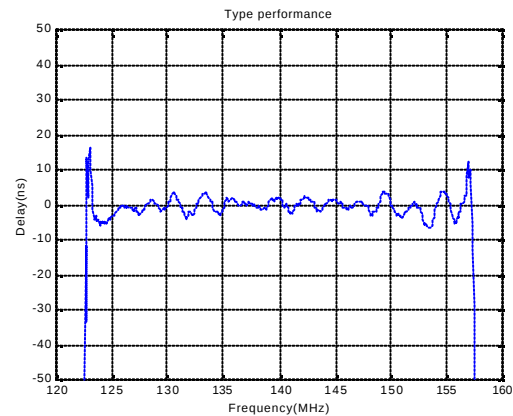
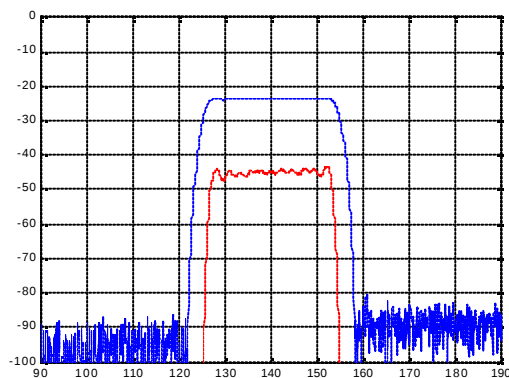
## 140 MHz Bandpass SAW Filter

28 MHz Bandwidth

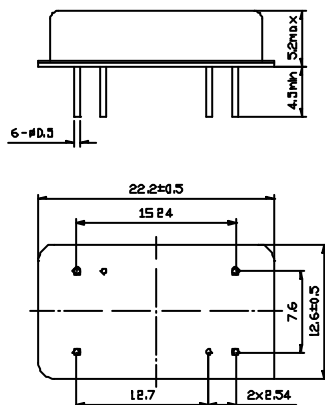
LBN14010

| Specifications              |                  |         |                        |         |      |
|-----------------------------|------------------|---------|------------------------|---------|------|
| Parameter                   | Sym              | Minimum | Typical                | Maximum | Unit |
| Center Frequency at 25°C    | fc               | 139.80  | 140                    | 140.20  | MHz  |
| Insertion Loss at fc        | IL               | -       | 23.5                   | 25      | dB   |
| 1 dB Bandwidth              | BW <sub>1</sub>  | 26.4    | 26.75                  | -       | MHz  |
| 3 dB Bandwidth              | BW <sub>3</sub>  | 28.0    | 28.63                  | -       | MHz  |
| 40dB Bandwidth              | BW <sub>40</sub> | -       | 34.7                   | 36.0    | MHz  |
| Passband Variation          | -                | -       | 0.4                    | 0.7     | dB   |
| Phase Linearity             | -                | -       | 3                      | 6       | Deg  |
| Group Delay Variation       | -                | -       | 15                     | 50      | nsec |
| Absolute Delay              | -                | -       | 1.044                  | -       | μsec |
| Ultimate Rejection          | -                | 50      | 60                     | -       | dB   |
| Substrate Material          | -                | -       | 128-LiNbO <sub>3</sub> | -       | -    |
| Ambient Temperature         | Ta               | -       | 25                     | -       | °C   |
| Operating Temperature Range | To               | -55     | 25                     | 85      | °C   |

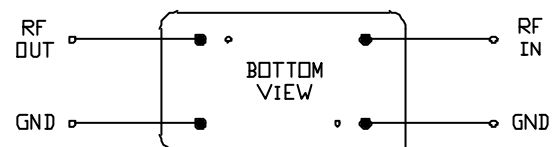
## Typical Performance



## Package Outline



## Matching Configuration



No Matching Required

Nominal Source/Load Impedance : 50 Ω