

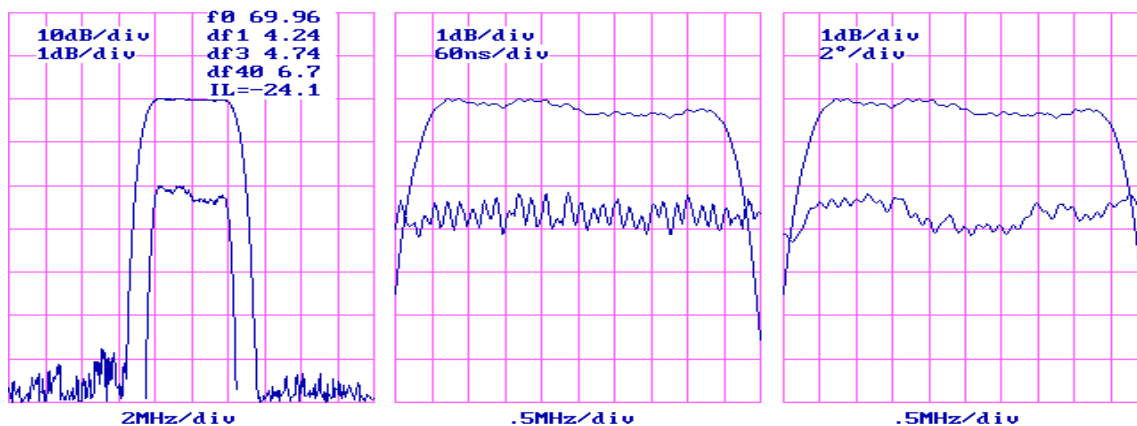
# 70 MHz Bandpass SAW Filter

## 4.5 MHz Bandwidth

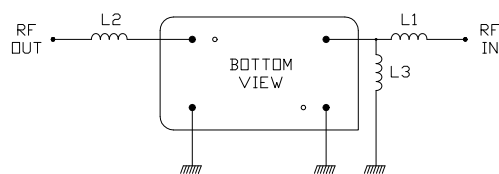
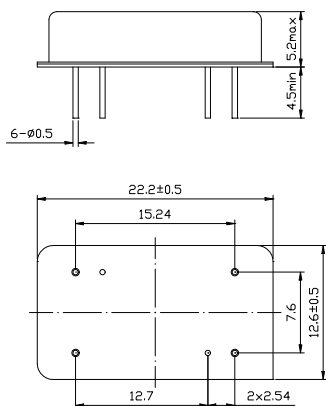
# BP60300

| Specifications           |                  |         |                        |         |      |
|--------------------------|------------------|---------|------------------------|---------|------|
| Parameter                | Sym              | Minimum | Typical                | Maximum | Unit |
| Center Frequency at 25°C | fc               | 69.91   | 70                     | 70.09   | MHz  |
| Insertion Loss at fc     | IL               | -       | 24.1                   | 26.0    | dB   |
| 1 dB Bandwidth           | BW <sub>1</sub>  | 4.0     | 4.2                    | -       | MHz  |
| 3 dB Bandwidth           | BW <sub>3</sub>  | 4.5     | 4.7                    | -       | MHz  |
| 40dB Bandwidth           | BW <sub>40</sub> | -       | 6.7                    | 6.9     | MHz  |
| Passband Variation       | -                | -       | 0.3                    | 0.8     | dB   |
| Phase Linearity          | -                | -       | 2.0                    | 4.0     | Deg  |
| Group Delay Variation    | -                | -       | 60                     | 90      | nsec |
| Absolute Delay           | -                | -       | 3.0                    | -       | μsec |
| Ultimate Rejection       | -                | 50      | 60                     | -       | dB   |
| Substrate Material       | -                | -       | 112-LiTaO <sub>3</sub> | -       | -    |
| Ambient Temperature      | Ta               | -       | 25                     | -       | °C   |

### Typical Performance



Package Outline
Matching Configuration



L1 : 230 nH   L2 : 110 nH  
 L3 : 270 nH  
 Nominal Source/Load Impedance : 50 Ω