

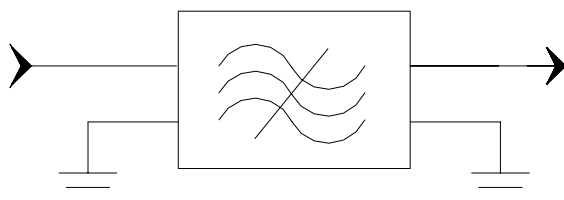
Specifications

| Parameter | Unit | Minimum | Typical | Maximum |
|----------------------------|------|---|---------|---------|
| Center Frequency | MHz | - | 70 | - |
| Insertion Loss | dB | - | 22 | 23 |
| 3 dB Bandwidth | MHz | 7.45 | 7.5 | 7.55 |
| $F0 \pm (7.5/2 + 0.4)$ MHz | dB | 35 | 36 | - |
| $F0 \pm (7.5/2 + 0.6)$ MHz | dB | 45 | 46.5 | - |
| $F0 \pm (7.5/2 + 1)$ MHz | dB | 50 | 52 | - |
| $F0 \pm (7.5/2 + 5)$ MHz | dB | 55 | 57 | - |
| Absolute delay | usec | - | 3.824 | 4.5 |
| Passband Variation | dB | - | 0.8 | 1 |
| Ultimate Rejection | dB | 55 | 57 | - |
| Substrate Material | | YZ LiNbO ₃ | | |
| Ambient Temperature | °C | 25 | | |
| Package Size | | DIP3512 (35.2x12.7x5.2mm ³) | | |

Notes:


1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance shown

Matching Configuration

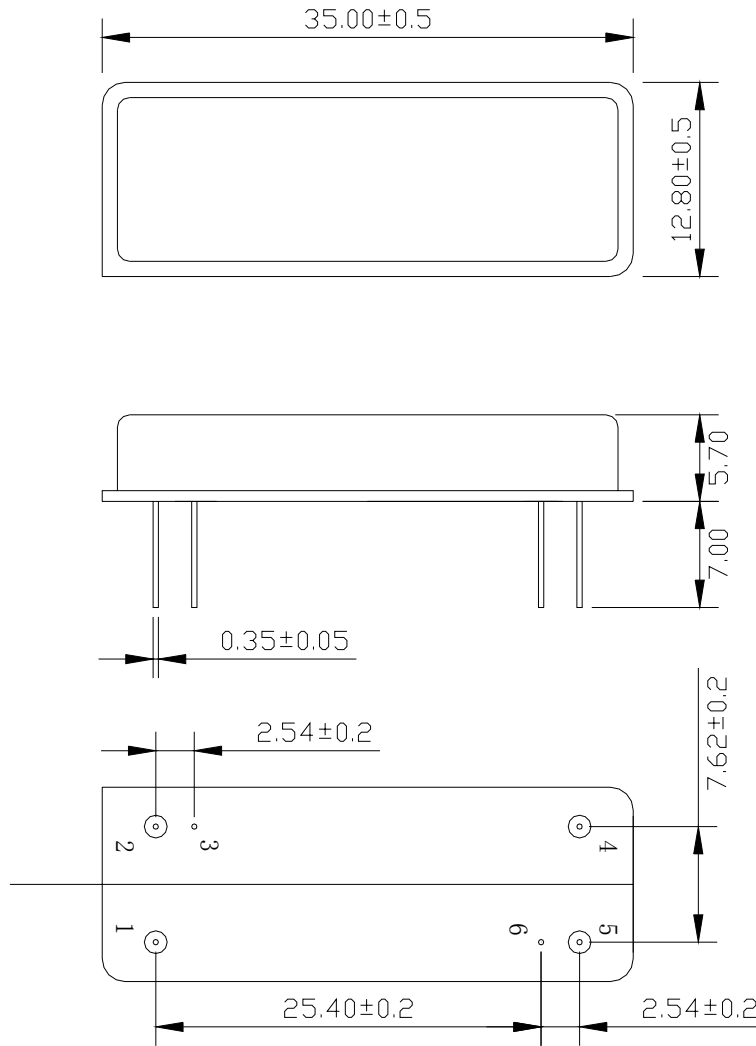


Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

| | | | | |
|--|---|-------------|------------|------|
|  | SIPAT Co., Ltd. (CETC No. 26 Research Institute) Nanping Huayuan Road No. 14 Chongqing, China, 400060 | Part Number | LBN07084 | |
| | | Rev. Date | 2004-11-19 | |
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Package Dimension

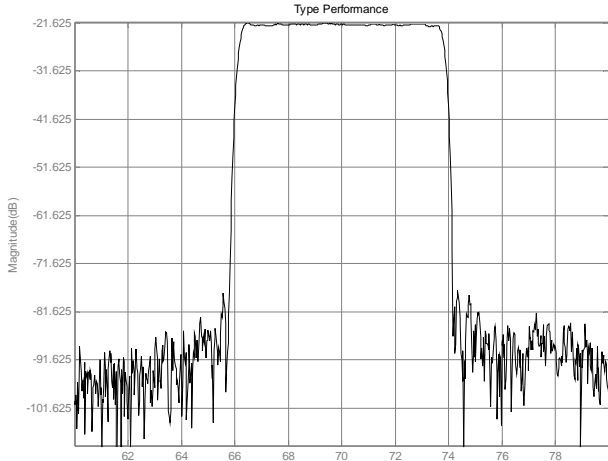


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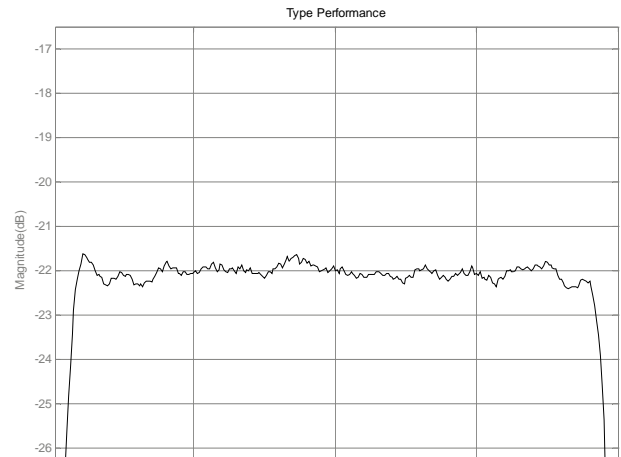
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Typical Performance

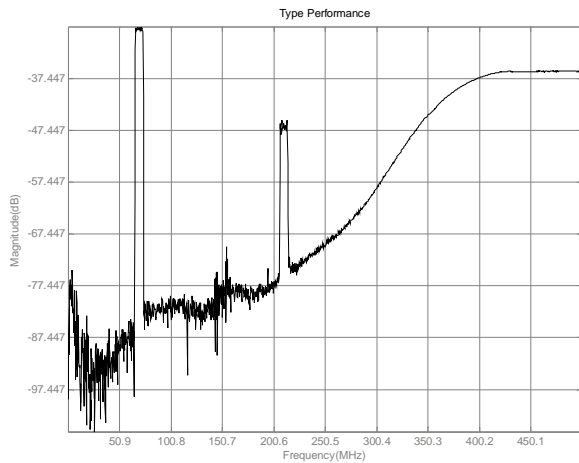
Frequency Respond



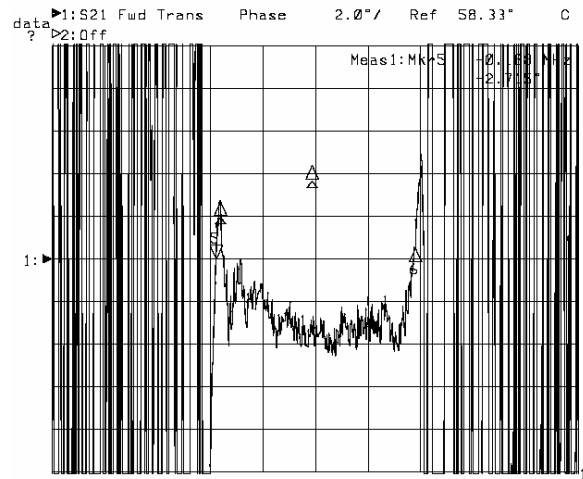
Passband Respond



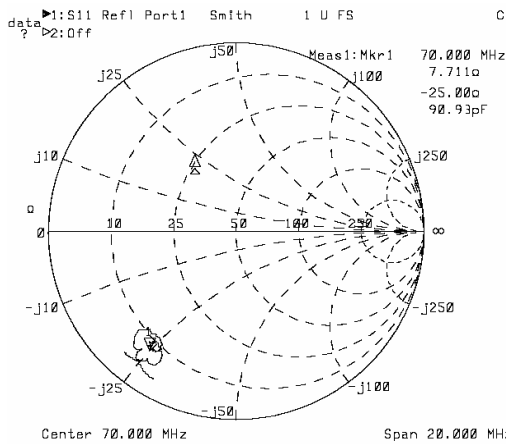
Passband Respond



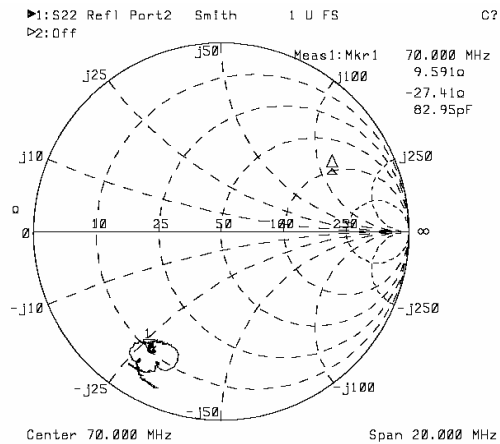
Phase Linearity




Smith Chart S11



Smith Chart S22



| | | | | |
|--|---|-------------|------------|------|
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