

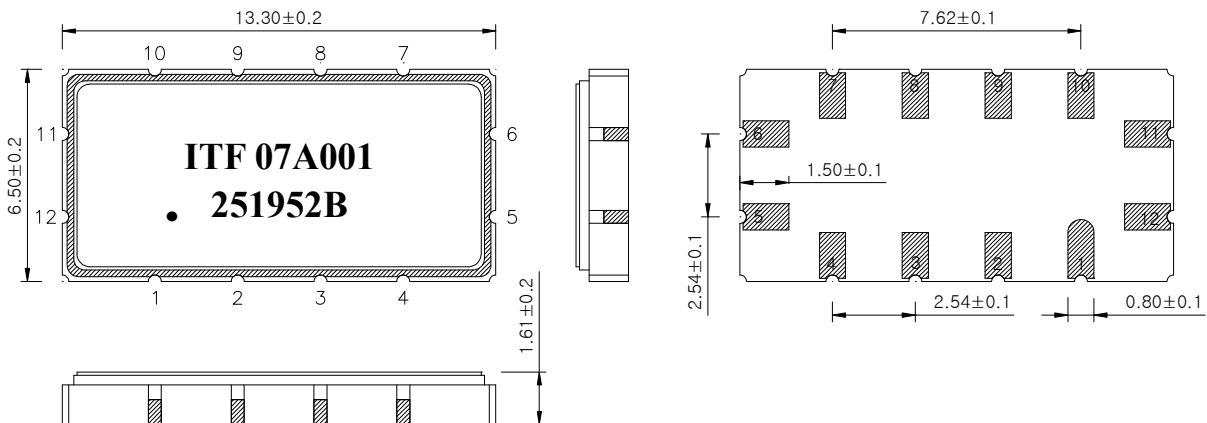
SAW Bandpass Filter 251952B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

| Pin Configuration | |
|-------------------|-------------|
| 11 | Input |
| 5 | Output |
| 6, 12 | Ground |
| Other | Case ground |

| | | | | |
|--|---|-----------|-------------|-----|
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3. Specifications

Fo = 120.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| Room temperature range : +25°C | | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency (Fc) | MHz | - | 120.0 | - |
| Insertion Loss | dB | - | 22.5 | 24.0 |
| 1dB Bandwidth | MHz | - | 19.51 | - |
| 3dB Bandwidth | MHz | 19.8 | 19.9 | - |
| 40dB Bandwidth | MHz | - | 21.7 | 22.0 |
| Amplitude Ripple (Fo +/- 9.22 MHz) | dB | - | 0.48 | 1.0 |
| Group Delay Variation (Fo +/- 9.22 MHz) | nsec | - | 30 | 60 |
| Absolute Delay | usec | - | 1.55 | - |
| Ultimate Rejection | dB | 45 | 50 | |
| Relative attenuation | | | | |
| Center of 1FA – 3.5MHz | dB | 15 | 35 | |
| Center of 4FA + 3.5MHz | dB | 15 | 35 | |
| Temperature Coefficient of Frequency | ppm/°C | - | - 72 | - |

Notes :

- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

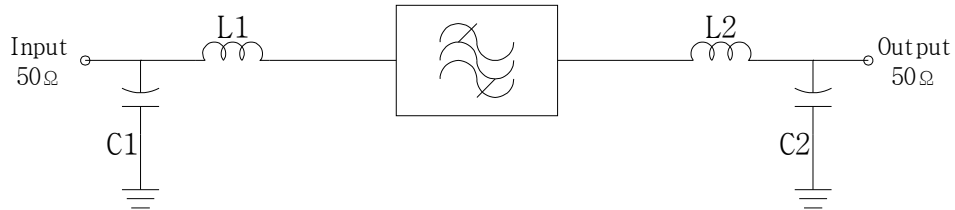
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|---|---|-----------|-------------|-----|
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4. Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



$L1 = 68\text{nH}$, $L2 = 68\text{nH}$

$C1 = 16\text{ pF}$, $C2 = 18\text{pF}$

5. Marking Configuration

ITF¹⁾ 07A001²⁾

251952B³⁾

● 4)

1) Manufacturer name

2) Lot Number

3) Part Number

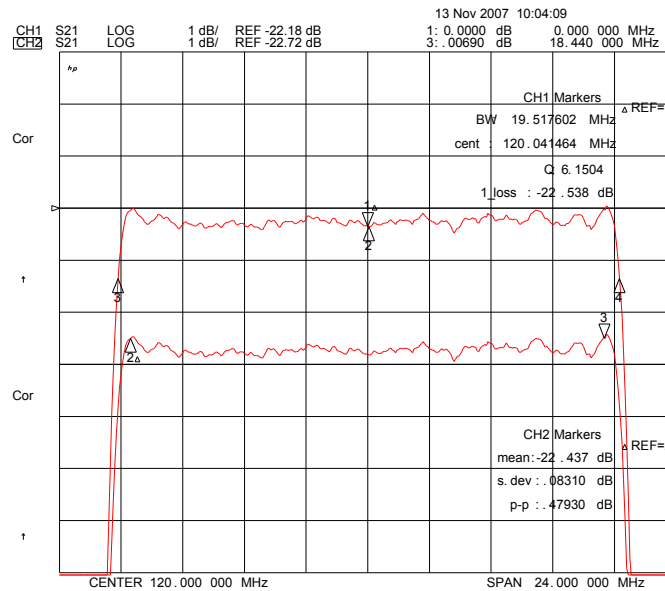
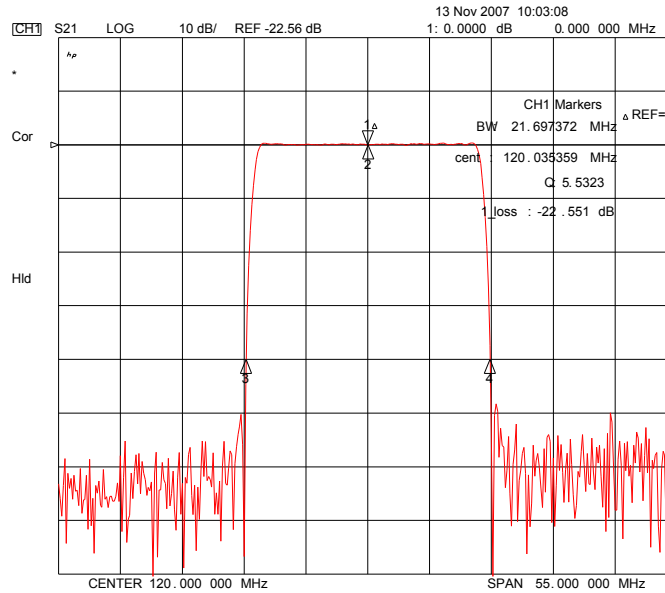
4) Pad Number 1 Index

| | | | | |
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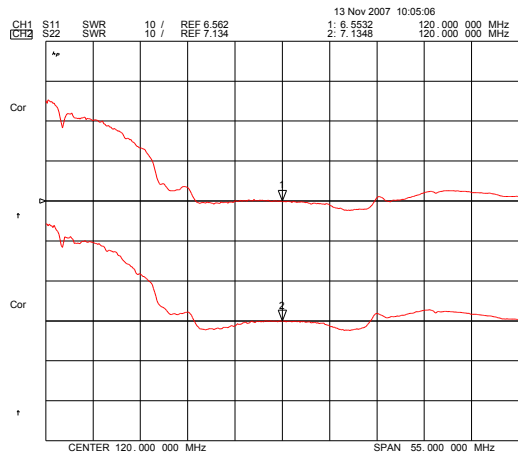
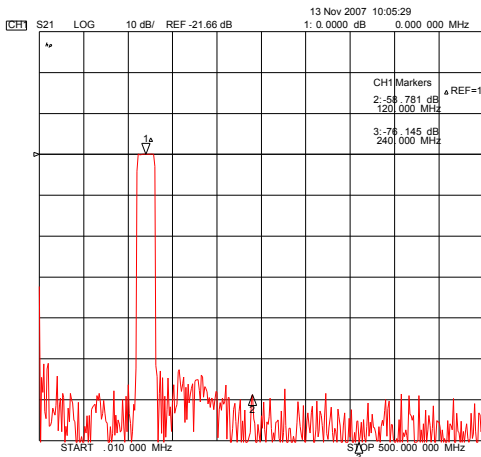
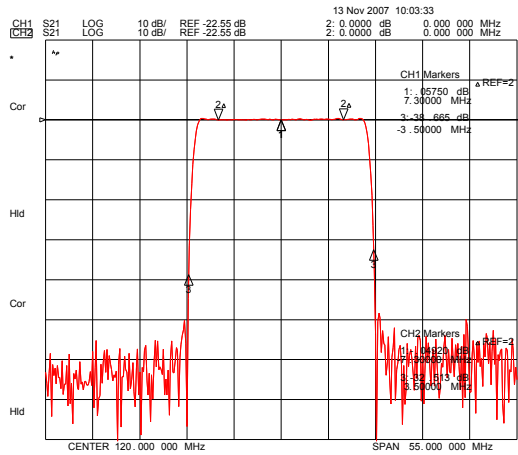
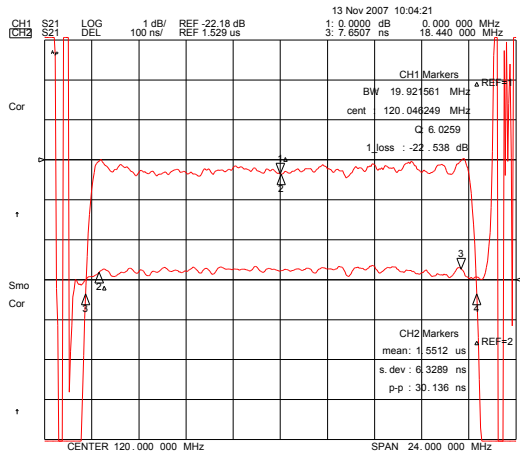


6. Typical Performance (at +25°C)



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