

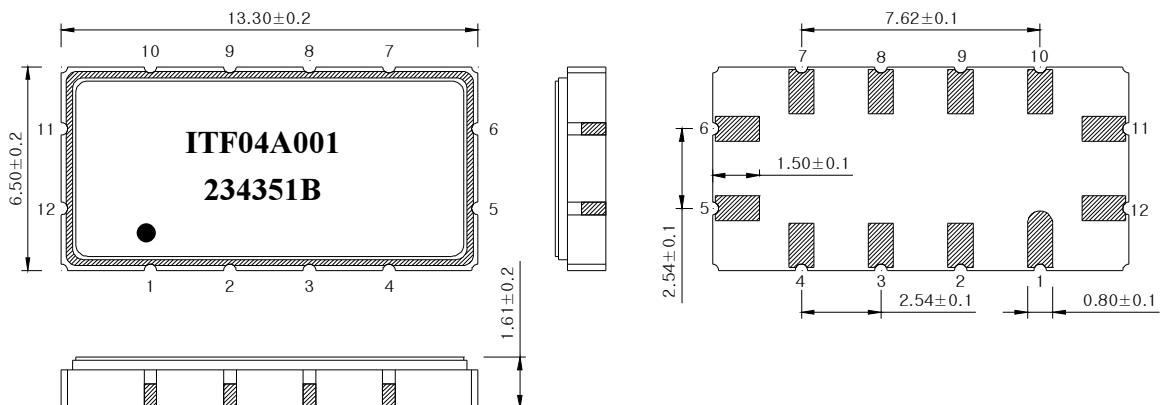
SAW Bandpass Filter 234351B



1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

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

| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 234351B | |
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3. Specifications

Fo = 76.8 MHz

| Operating temperature range : -25 to + 70 °C | | Minimum | Typical | Maximum |
|--|--------|---------|---------|---------|
| Center Frequency | MHz | 76.35 | 76.8 | 77.25 |
| Insertion Loss | dB | - | 20 | 22.0 |
| 1dB Bandwidth | MHz | 40.0 | 42.2 | - |
| 3dB Bandwidth | MHz | 43.0 | 43.6 | - |
| 40dB Bandwidth | MHz | - | 50.2 | 50.8 |
| Amplitude Ripple (Fo +/- 19.75 MHz) | dB | - | 0.7 | 1.0 |
| Group Delay Variation (Fo +/- 19.75 MHz) | nsec | - | 18 | 70 |
| Absolute Delay | usec | - | 0.88 | - |
| Relative Attenuations | | | | |
| 0 ~ 52.15 MHz | dB | 40 | 50 | - |
| 103.85 ~ 130 MHz | dB | 40 | 43 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -86 | - |

| Room temperature : + 25 °C | | Minimum | Typical | Maximum |
|---|------|---------|---------|---------|
| Center Frequency | MHz | 76.6 | 76.8 | 77.0 |
| Insertion Loss | dB | - | 20.0 | 21.5 |
| Amplitude Ripple (Fo +/- 20.0 MHz) | dB | - | 0.7 | 1.0 |
| Group Delay Variation (Fo +/- 20.0 MHz) | nsec | - | 18 | 70 |
| Relative Attenuations | | | | |
| 0 ~ 52.4 MHz | dB | 40 | 50 | - |
| 103.6 ~ 130 MHz | dB | 40 | 43 | - |

| | | | | |
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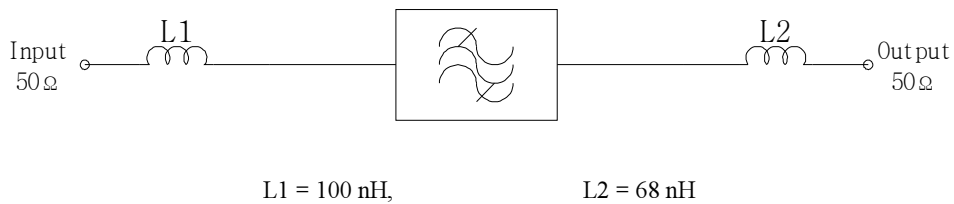


Notes :

- 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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

4. Matching Schematic

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



5. Marking Configuration

ITF¹⁾ 04A001²⁾

234351B³⁾

● ⁴⁾

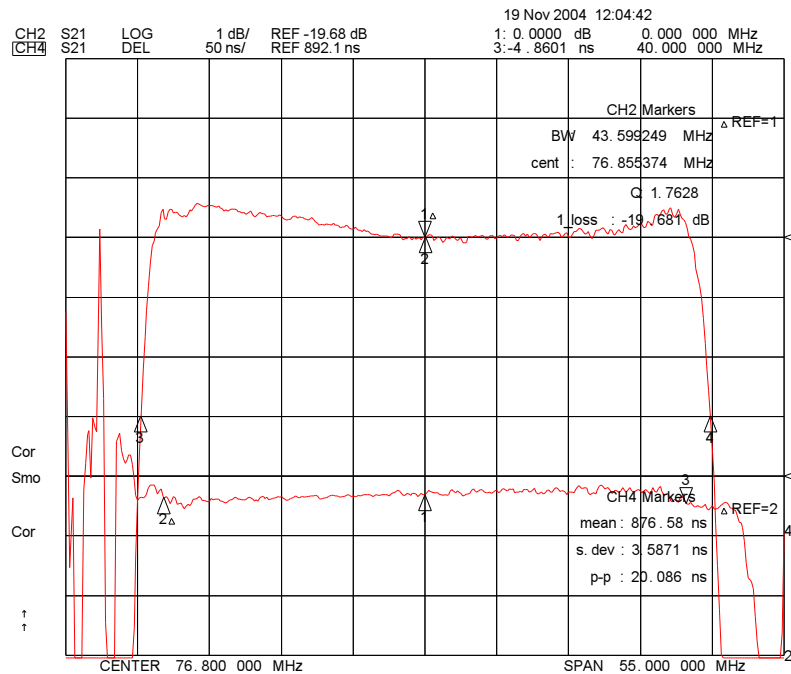
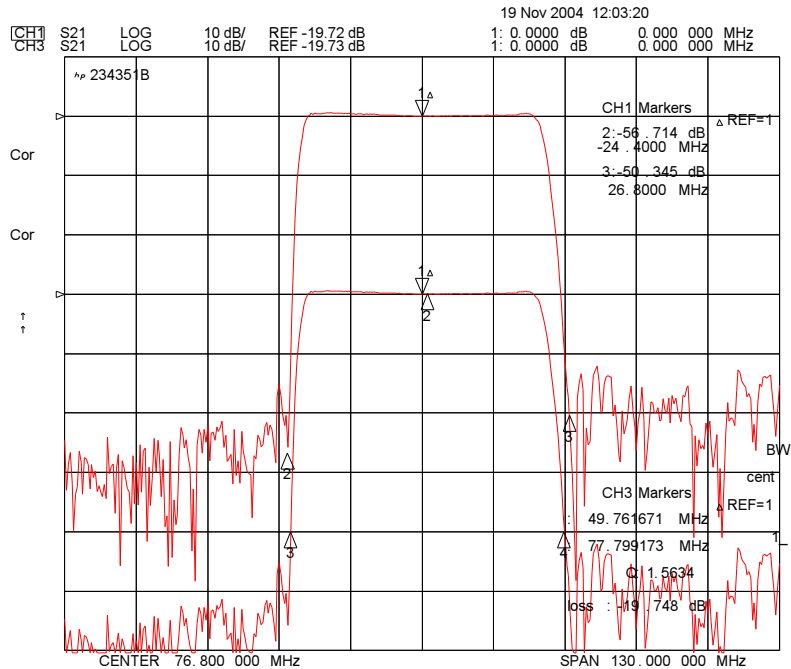
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

| | | | | |
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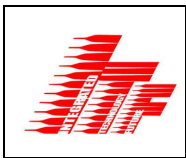
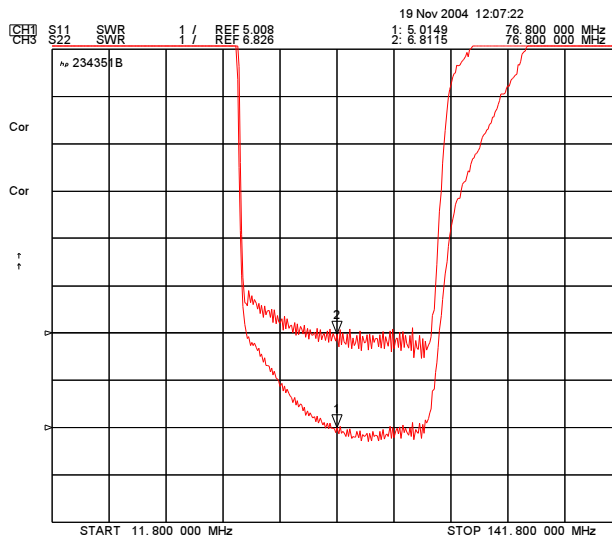
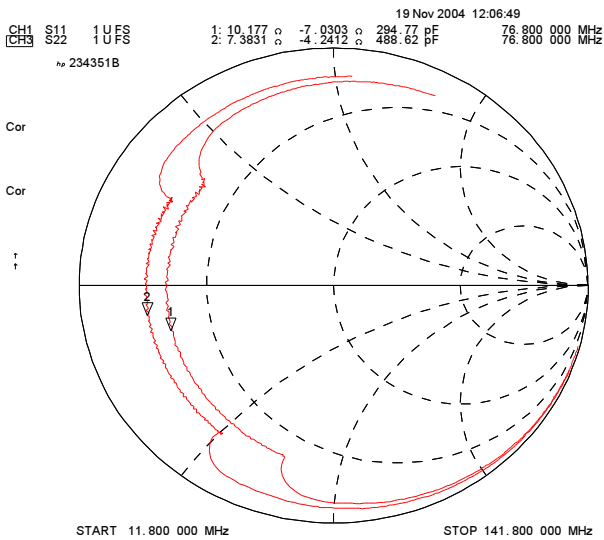
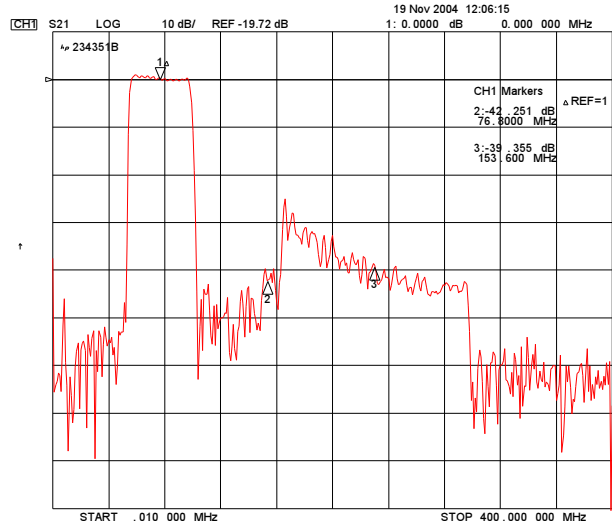
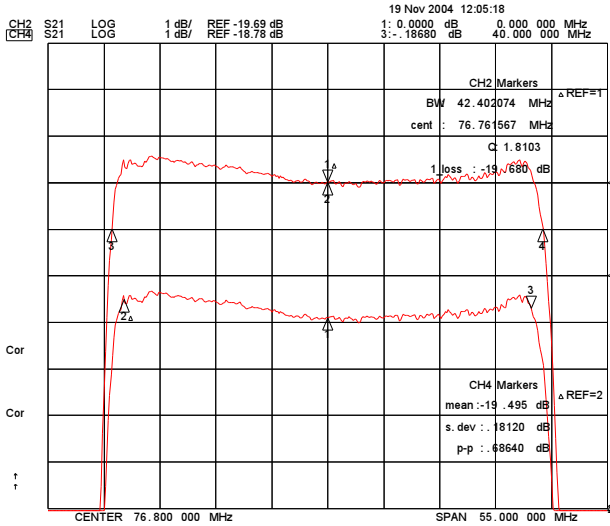


6. Typical Performance (at +25°C)



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