

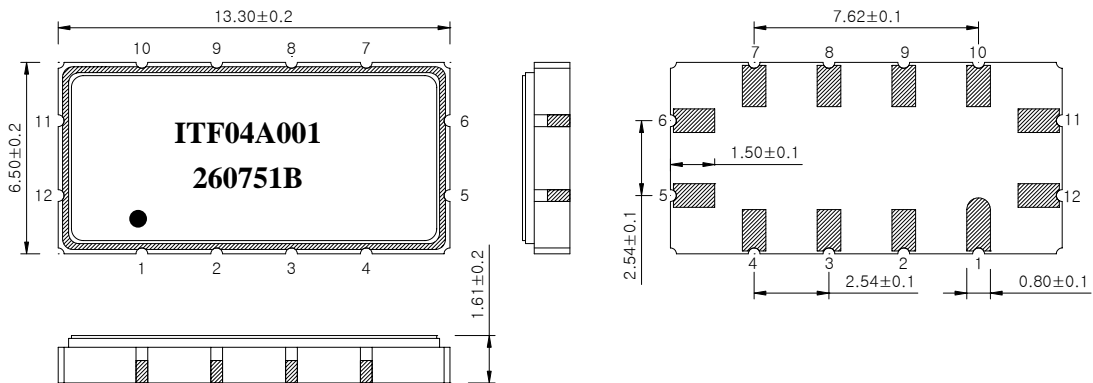
SAW Bandpass Filter 260751B



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. | 260751B | |
| | | Rev. Date | 2006-10-12 | |
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3. Specifications

Fo = 208.25 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| Operating temperature range : -10°C ~ +60°C | | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency | MHz | - | 208.25 | - |
| Insertion Loss | dB | - | 13.1 | 15.0 |
| 1dB Bandwidth | MHz | 6.6 | 7.0 | - |
| 3dB Bandwidth | MHz | 7.65 | 7.7 | - |
| 40dB Bandwidth | MHz | - | 11.1 | 12.0 |
| Amplitude Ripple (Fo +/- 2.9 MHz) | dB | - | 0.6 | 1.0 |
| Group Delay Variation (Fo +/- 2.9 MHz) | nsec | - | 40 | 100 |
| Absolute Delay | usec | - | 1.01 | - |
| Relative Attenuation | | | | |
| 199 ~ 203 MHz | dB | 35 | 45 | - |
| 215 ~ 315 MHz | dB | 40 | 45 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -13 | - |

| Room Temperature : +25°C | | Minimum | Typical | Maximum |
|--|------|---------|---------|---------|
| Insertion Loss | dB | - | 13.1 | 14.5 |
| Amplitude Ripple (Fo +/- 3.0 MHz) | dB | - | 0.6 | 1 |
| Group Delay Variation (Fo +/- 3.0 MHz) | nsec | - | 40 | 100 |
| Relative Attenuation : 199 ~ 203 MHz | dB | 40 | 45 | - |


| | | | | |
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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

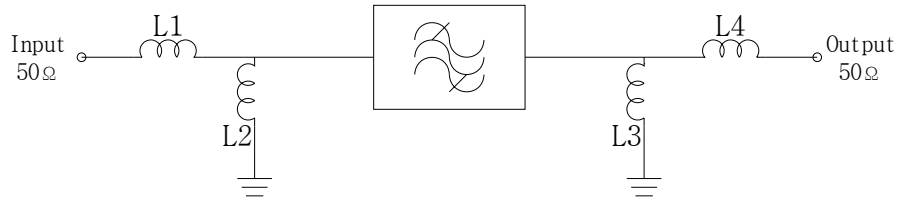
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|  Integrated Technology Future | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 260751B |
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4. Matching Schematic

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



L1 = 120 nH, L4 = 120 nH
L2 = 82 nH, L3 = 100 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾

260751B³⁾

● 4)

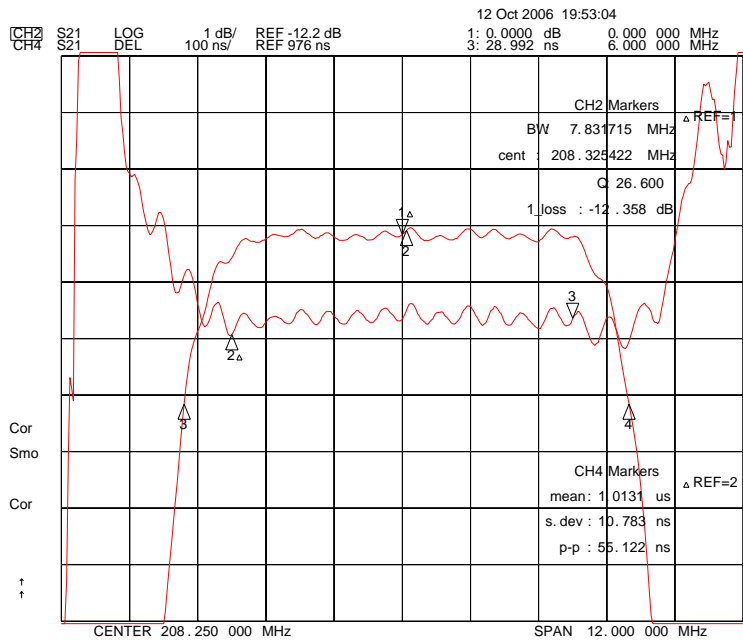
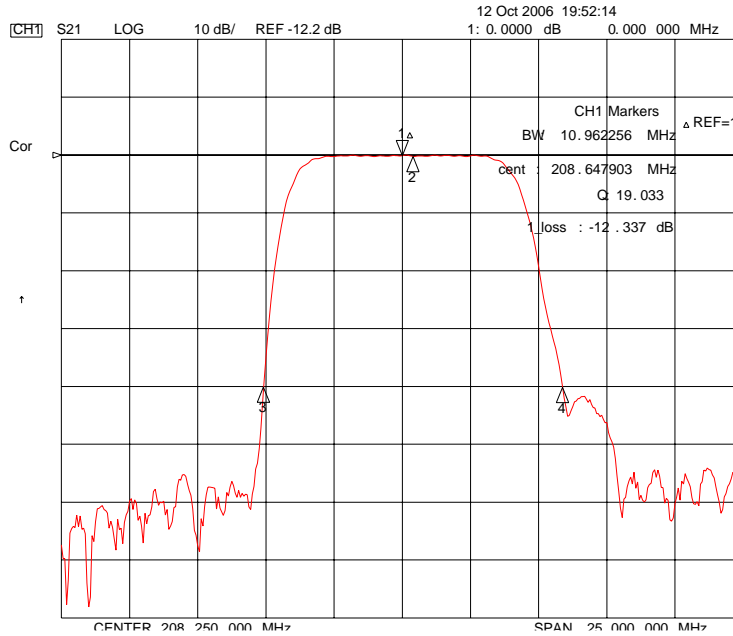
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

| | | | |
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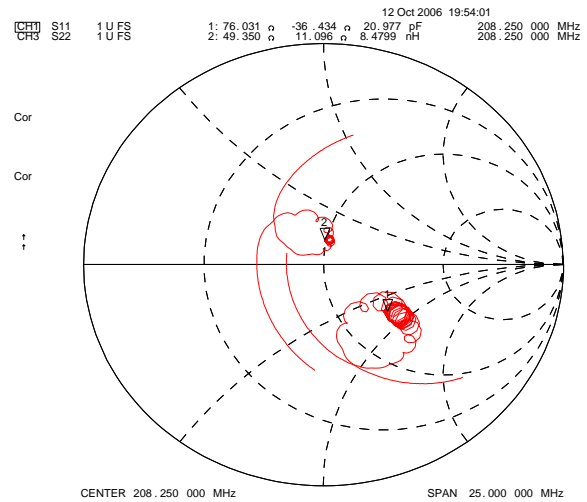
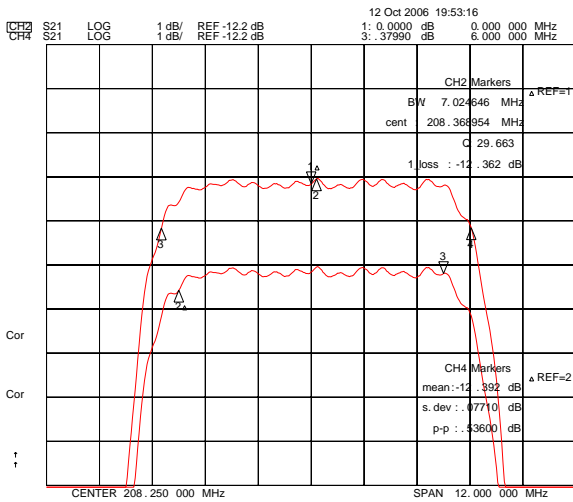
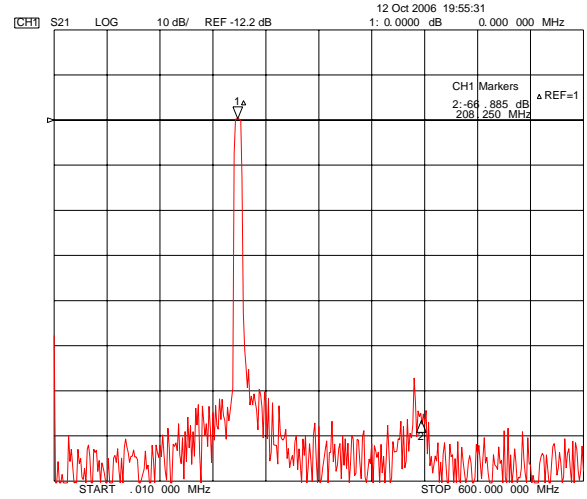
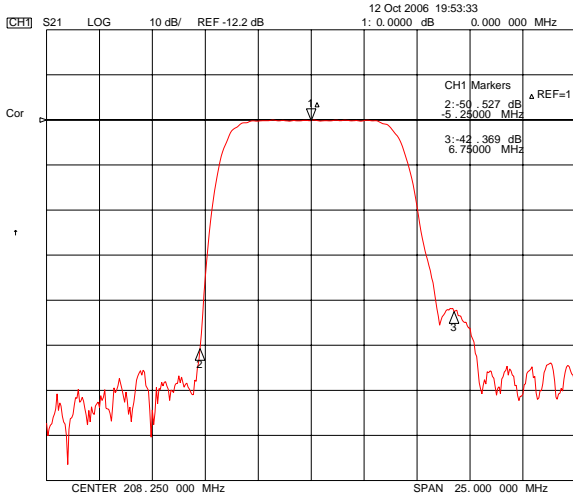


6. Typical Performance (at +25°C)



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