

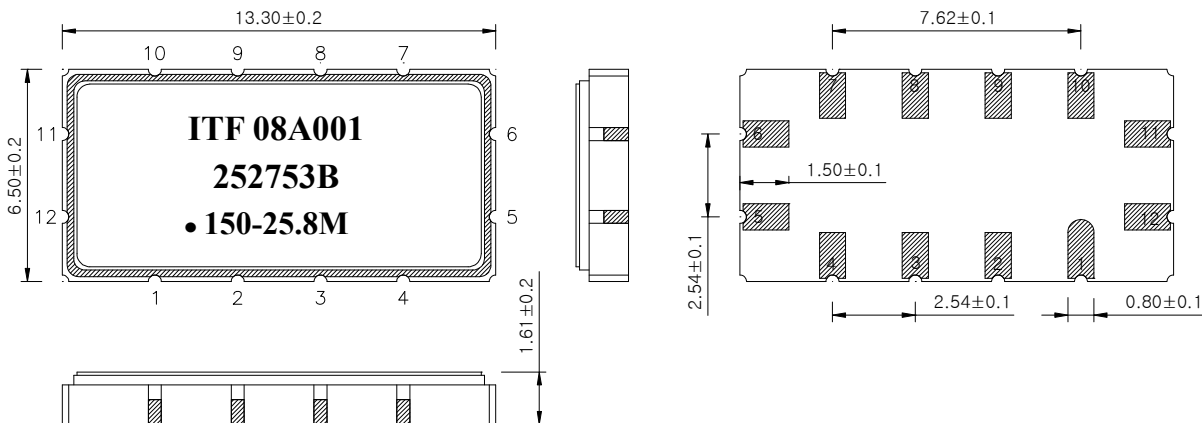
SAW Bandpass Filter 252753B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- SMD 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 |

| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 252753B | |
| | | Rev. Date | 2009-01-05 | |
| | | Rev. | NM8081-CS01 | 1/5 |

SAW Bandpass Filter 252753B



3. Specifications

Fo = 150.0 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 | - | 150.0 | - |
| Insertion Loss | dB | - | 19.5 | 21.0 |
| 1dB Bandwidth | MHz | 25.6 | 25.8 | - |
| 3dB Bandwidth | MHz | - | 27.15 | - |
| 40dB Bandwidth | MHz | - | 33.07 | 33.2 |
| Amplitude Ripple (Fo +/- 12.2 MHz) | dB | - | 0.55 | 1.0 |
| Group Delay Variation (Fo +/- 12.2 MHz) | nsec | - | 20 | 50 |
| Absolute Delay | usec | - | 0.67 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| 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

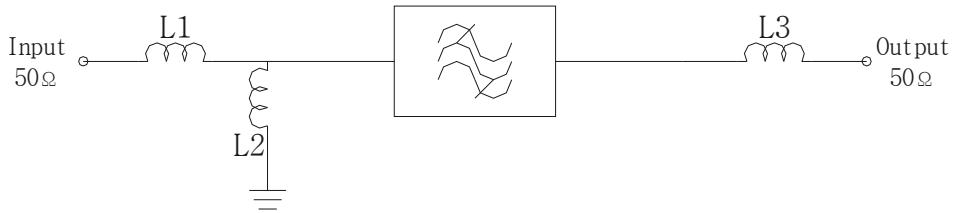
| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 252753B | |
| | | Rev. Date | 2009-01-05 | |
| | | Rev. | NM8081-CS01 | 2/5 |

SAW Bandpass Filter 252753B



4. Matching Schematic

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



L1 = 22nH, L2 = 120nH,
L3 = 82nH

5. Marking Configuration

ITF¹⁾08A001²⁾
252753B³⁾
150⁴⁾-25.8M⁵⁾
●⁶⁾

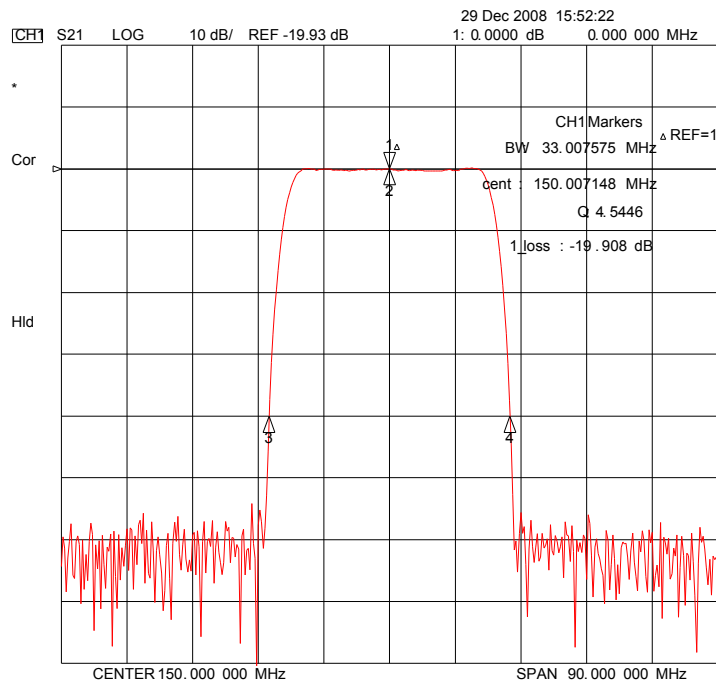
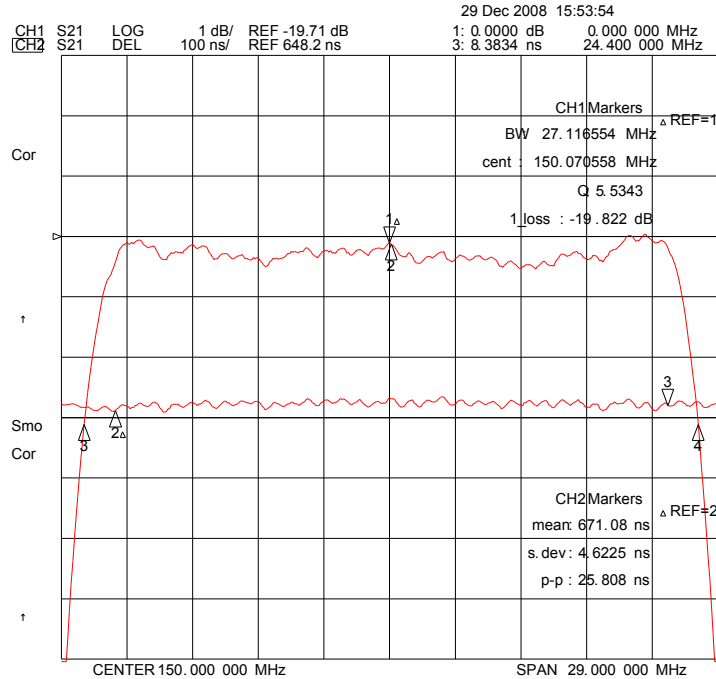
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center frequency
- 5) 1dB-Bandwidth
- 6) Pad Number 1 Index

| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 252753B | |
| | | Rev. Date | 2009-01-05 | |
| | | Rev. | NM8081-CS01 | 3/5 |

SAW Bandpass Filter 252753B

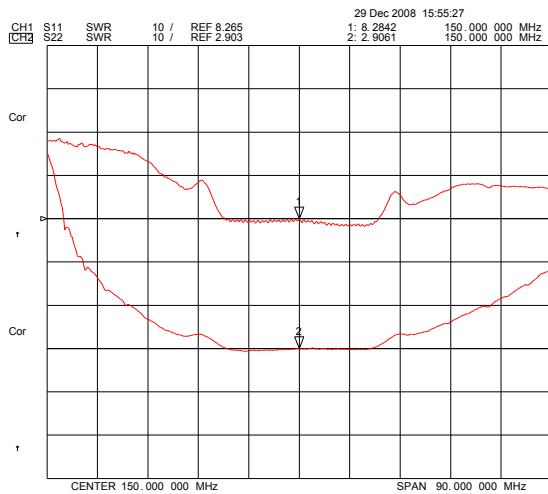
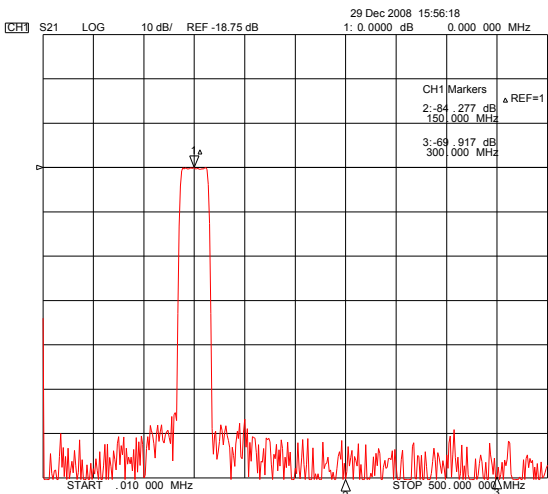
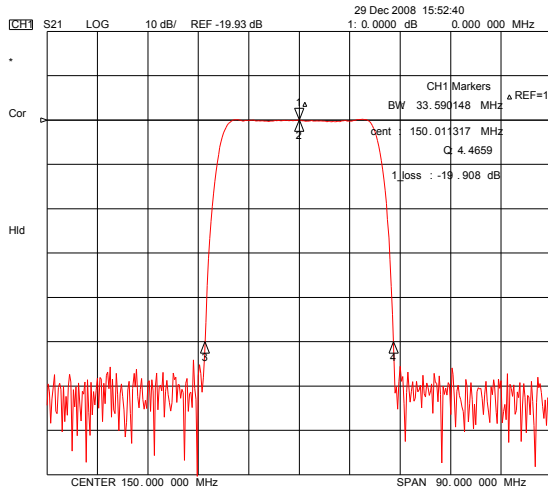
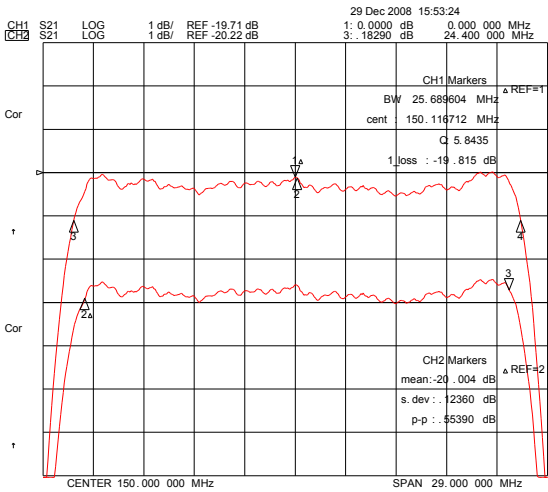


6. Typical Performance (at +25°C)



| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 252753B | |
| | | Rev. Date | 2009-01-05 | |
| | | Rev. | NM8081-CS01 | 4/5 |

SAW Bandpass Filter 252753B



ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

| | | |
|-----------|-------------|-----|
| Part No. | 252753B | |
| Rev. Date | 2009-01-05 | |
| Rev. | NM8081-CS01 | 5/5 |