

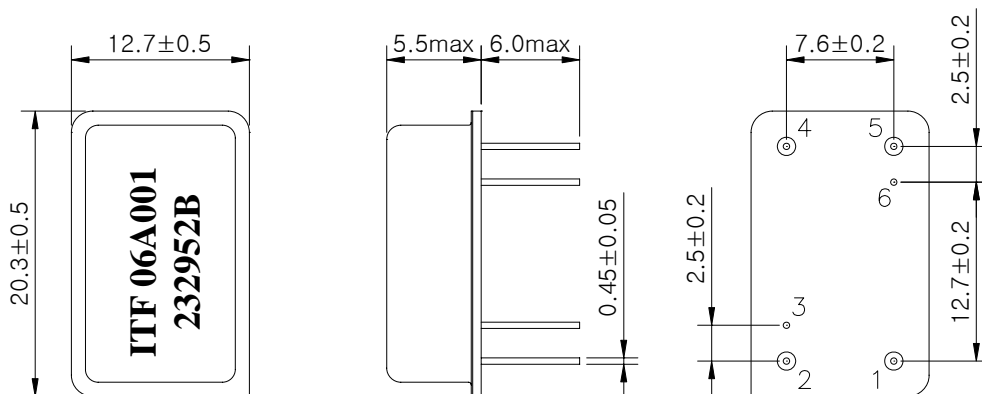
SAW Bandpass Filter 232952B



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 : 2012

Dimensions shown are nominal in millimeters


Base : Fe(SPCC), Au plating over Ni plated

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Pin Configuration

| | |
|------|-------------|
| 1 | Input |
| 5 | Output |
| 2, 4 | Ground |
| 3, 6 | Case ground |

| | | | | |
|---|---|-----------|-------------|-----|
|  | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 232952B | |
| | | Rev. Date | 2006-6-27 | |
| | | Rev. | NM6007-CS03 | 1/5 |

SAW Bandpass Filter 232952B



3. Specifications

Fo = 75.0 MHz

Terminating source impedance : 50Ω and matching network


Terminating load impedance : 50Ω and matching network

| | | Minimum | Typical | Maximum |
|--|--------|---------|---------|---------|
| Center Frequency | MHz | - | 75.0 | - |
| Insertion Loss | dB | - | 27.5 | 28.5 |
| 1dB Bandwidth | MHz | - | 28.35 | - |
| 3dB Bandwidth | MHz | 28.5 | 29.0 | - |
| 40dB Bandwidth | MHz | - | 32.2 | 32.5 |
| Amplitude Ripple (Fo +/- 13.75 MHz) | dB | - | 0.3 | 1.0 |
| Group Delay Variation (Fo +/- 13.75 MHz) | nsec | - | 13 | 50 |
| Absolute Delay | usec | - | 1.4 | - |
| 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

All attenuation measurements are measured relative to insertion loss

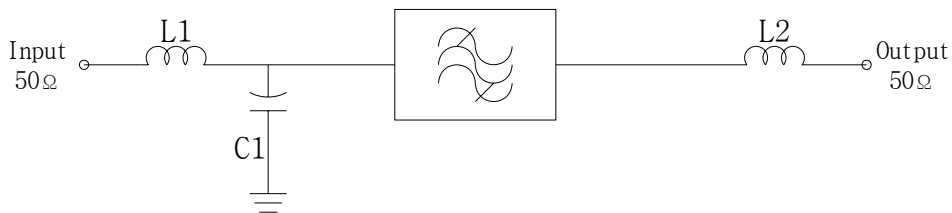
| | | | | |
|---|---|-----------|-------------|-----|
|  Integrated Technology Future | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 232952B | |
| | | Rev. Date | 2006-6-27 | |
| | | Rev. | NM6007-CS03 | 2/5 |

SAW Bandpass Filter 232952B



4. Matching Schematic

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



L1 = 150 nH , L2 = 120 nH

C1 = 11pF

5. Marking Configuration

ITF¹⁾ 06A001²⁾

232952B³⁾

● ⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

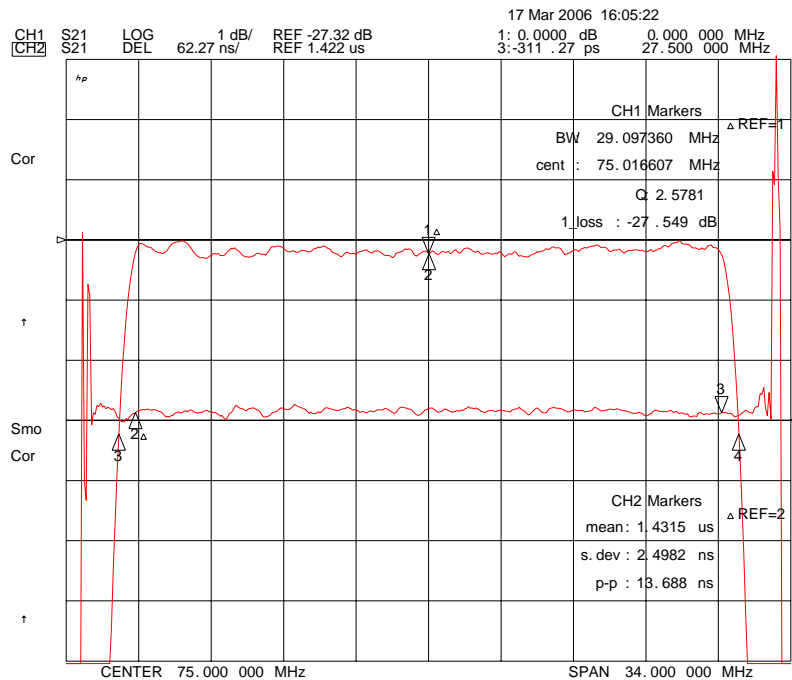
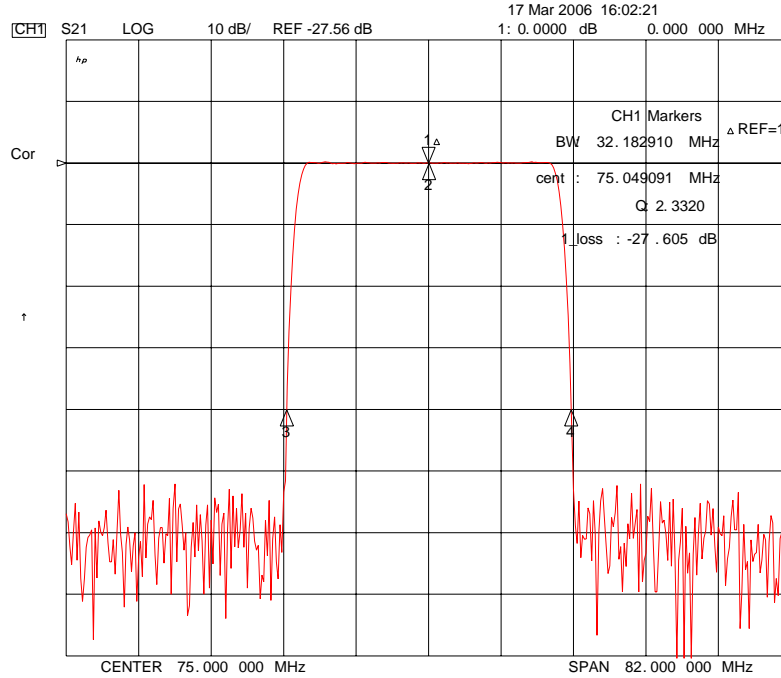
4) Pad Number 1 Index

| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 232952B | |
| | | Rev. Date | 2006-6-27 | |
| | | Rev. | NM6007-CS03 | 3/5 |

SAW Bandpass Filter 232952B

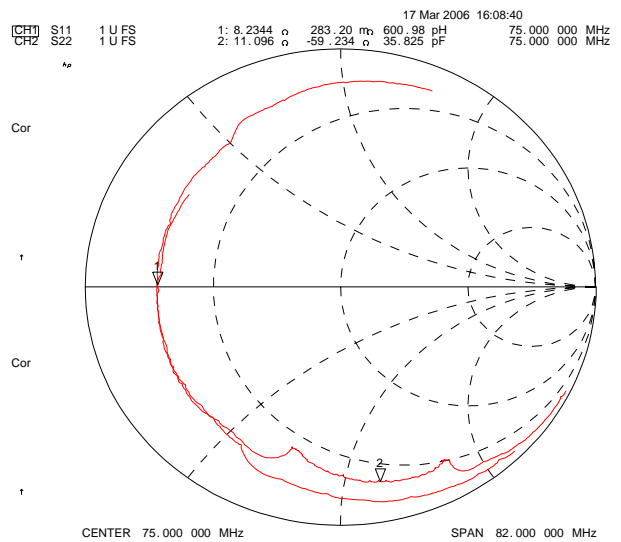
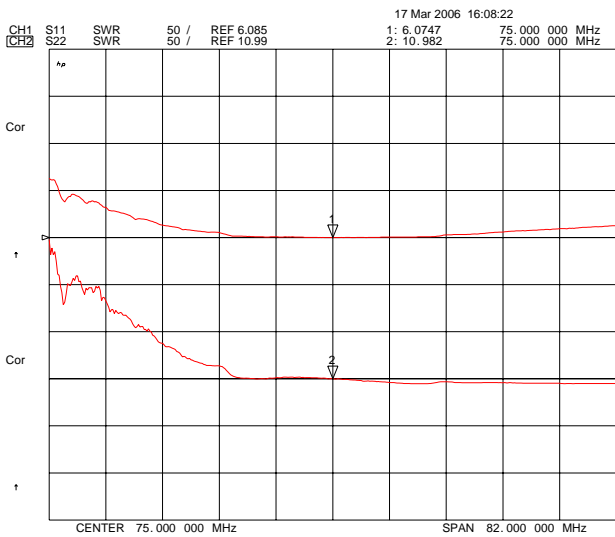
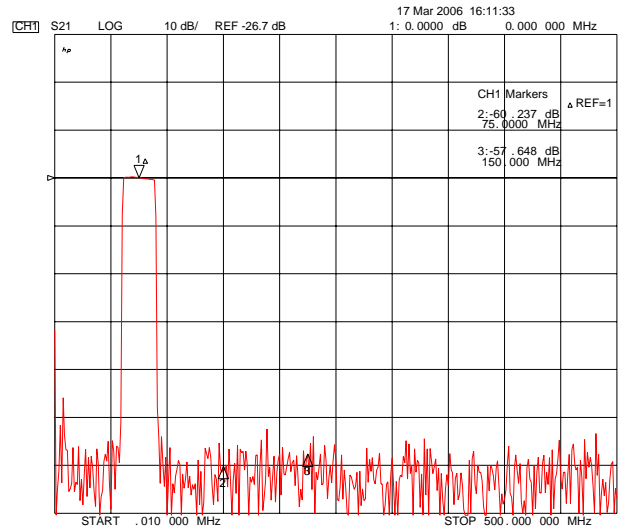
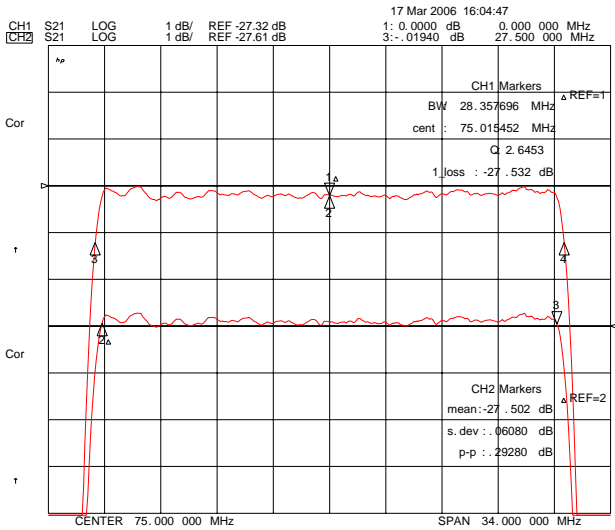


6. Typical Performance (at +25°C)



| | | | | |
|--|---|-----------|-------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 232952B | |
| | | Rev. Date | 2006-6-27 | |
| | | Rev. | NM6007-CS03 | 4/5 |

SAW Bandpass Filter 232952B



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

| | | |
|-----------|-------------|-----|
| Part No. | 232952B | |
| Rev. Date | 2006-6-27 | |
| Rev. | NM6007-CS03 | 5/5 |