

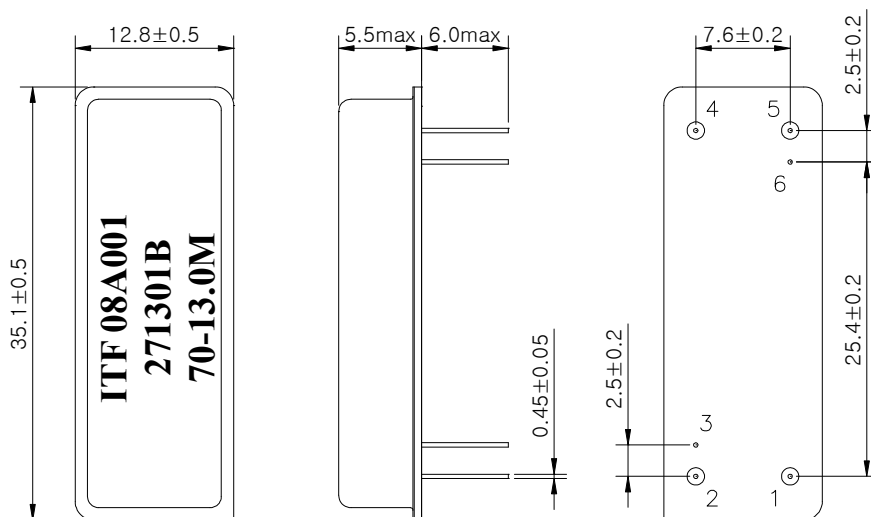
SAW Bandpass Filter 271301B



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 : D3512

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 |

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

Fo = 70.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| | | Minimum | Typical | Maximum |
|--------------------------------------|--------|---------|---------|---------|
| Center Frequency | MHz | - | 70.0 | - |
| Insertion Loss | dB | - | 25.5 | 27.0 |
| 1dB Bandwidth | MHz | 12.9 | 12.96 | - |
| 3dB Bandwidth | MHz | - | 13,14 | - |
| 40dB Bandwidth | MHz | - | 13.92 | - |
| Amplitude Ripple (fo ± 6.3 MHz) | dB | - | 0.6 | 1.0 |
| Group Delay Variation (fo ± 6.3 MHz) | nsec | - | 50 | 100 |
| Absolute Delay | usec | - | 3.24 | - |
| Ultimate Rejection | dB | 45 | 50 | - |
| Out of band gain | | | | |
| Fo±6.5MHz ± 400 kHz | dB | 20 | 27 | |
| Fo±6.5MHz ± 600 kHz | dB | 25 | 50 | |
| Fo±6.5MHz ± 1MHz | dB | 28 | 55 | |
| Fo±6.5MHz ± 5MHz | dB | 40 | 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

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

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




Un-matching required

5. Marking Configuration

ITF¹⁾ 08A001²⁾
271301B³⁾
70⁴⁾ -13.0M⁵⁾

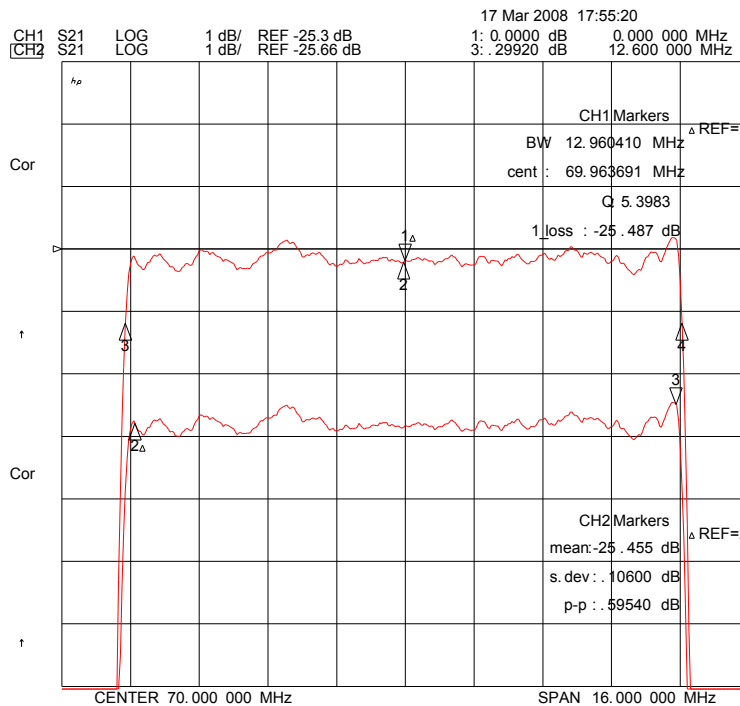
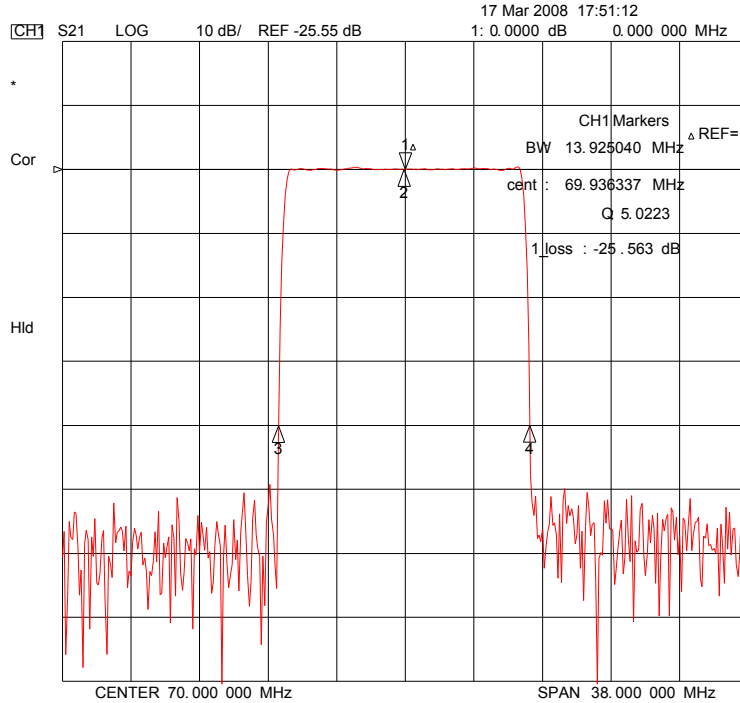
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

| | | | | |
|---|---|-----------|-------------|-----|
|  Integrated Technology Future | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 271301B | |
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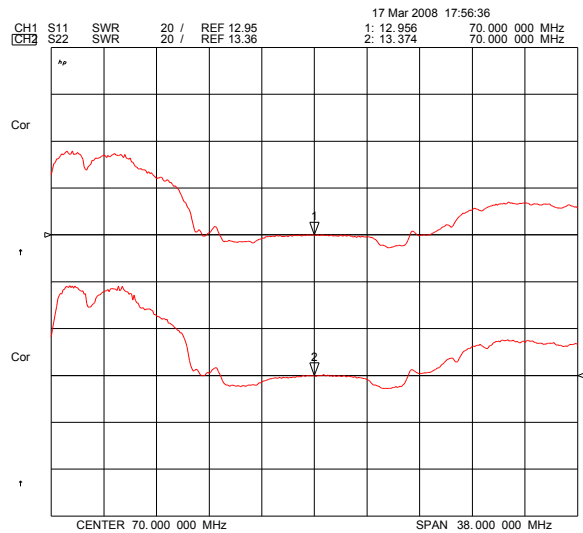
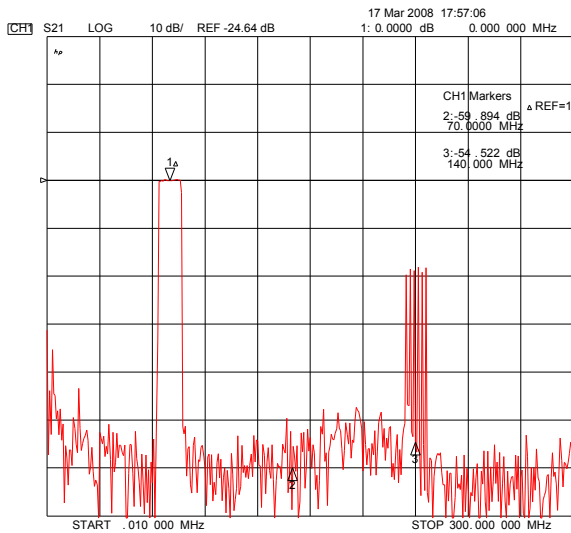
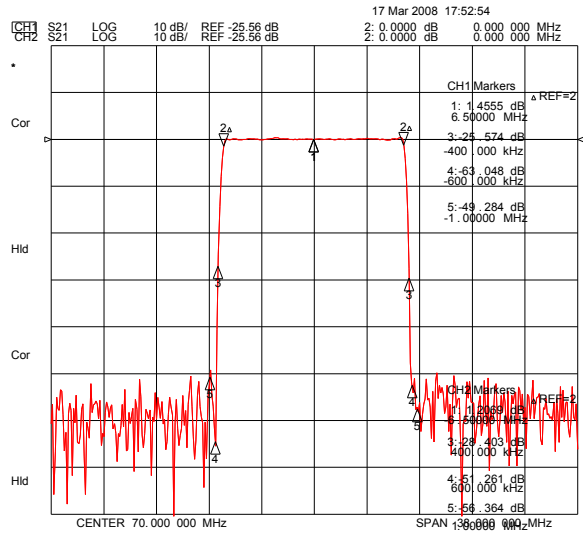
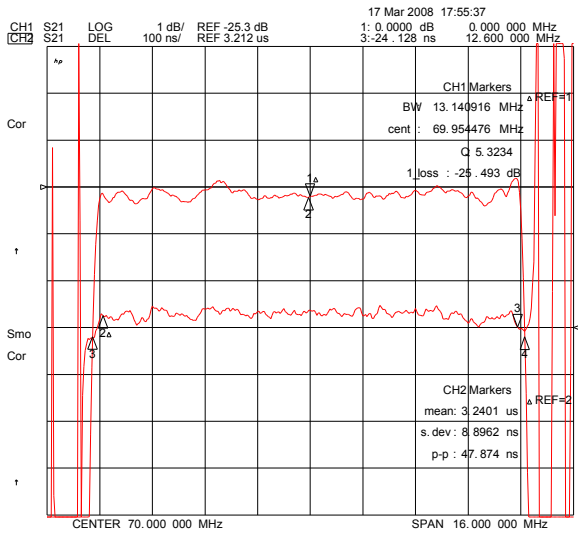
6. Typical Performance (at +25°C)



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