

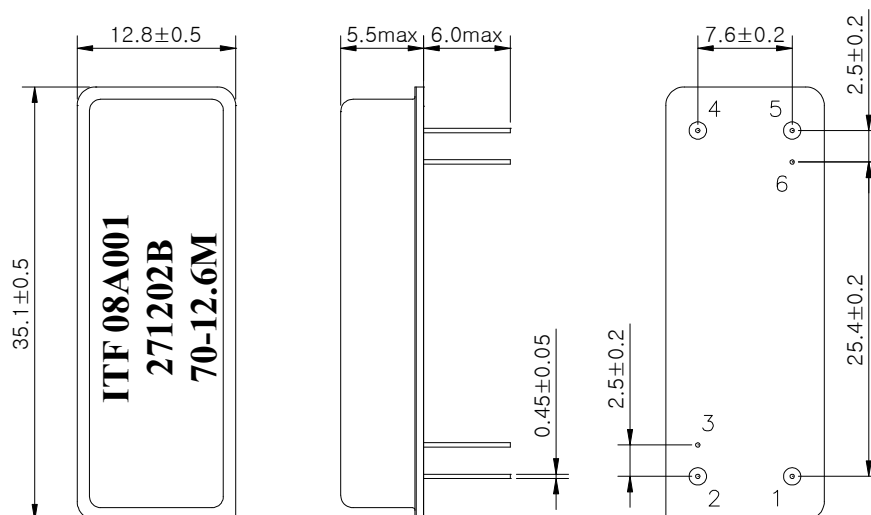
# SAW Bandpass Filter 271202B



## 1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- 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 |

|                                                                                                                     |                                                                                                                                   |           |             |     |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|
| <br>Integrated Technology Future | <b>ITF Co., Ltd.</b><br>102-901, Bucheon Technopark 364,<br>Samjeong-Dong, Ojeong-Gu, Bucheon-City,<br>Gyeonggi-Do, Korea 421-809 | Part No.  | 271202B     |     |
|                                                                                                                     |                                                                                                                                   | Rev. Date | 2008-11-04  |     |
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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     | -       | 23.5    | 25.0    |
| 2dB Bandwidth                        | MHz    | 12.5    | 12.58   |         |
| 25dB Bandwidth                       | MHz    | -       | 13.18   | 13.3    |
| 40dB Bandwidth                       | MHz    | -       | 13.33   | -       |
| Amplitude Ripple (fo± 6.075MHz)      | dB     | -       | 0.65    | 1.0     |
| Group Delay Variation (fo± 6.075MHz) | nsec   | -       | 60      | 120     |
| Absolute Delay                       | usec   | -       | 3.72    | -       |
| Ultimate Rejection                   | dB     | 50      | 52      | -       |
| 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

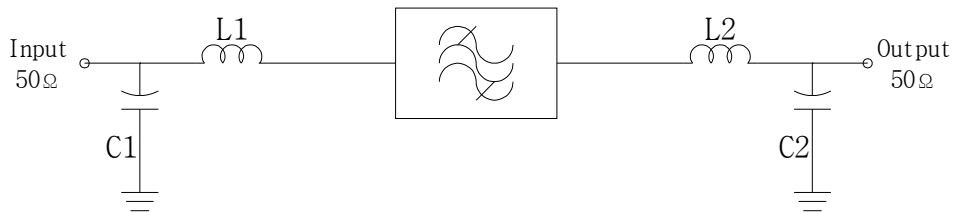
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## 4. Matching Schematic

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



**L1 = 100nH, L2 = 82nH**

**C1 = 22pF, C2 = 22pF**

## 5. Marking Configuration

ITF<sup>1)</sup> 08A001<sup>2)</sup>

271202B<sup>3)</sup>

70<sup>4)</sup> -12.6M<sup>5)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

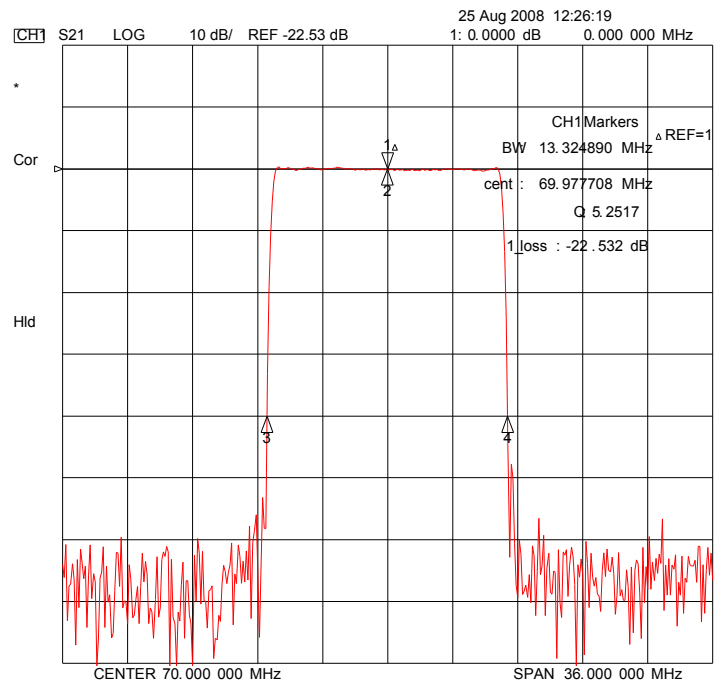
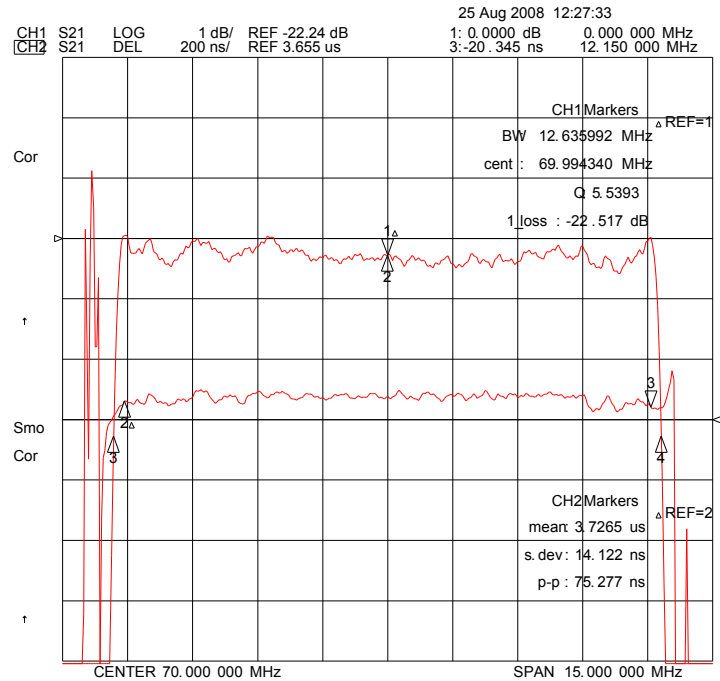
5) 2dB-Bandwidth

|                                                                                                                     |                                                                                                                                   |           |             |     |
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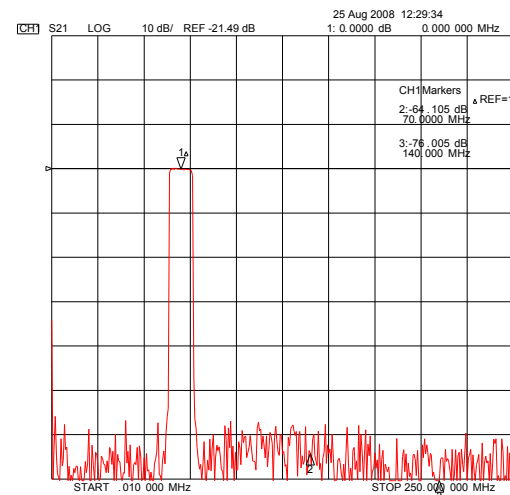
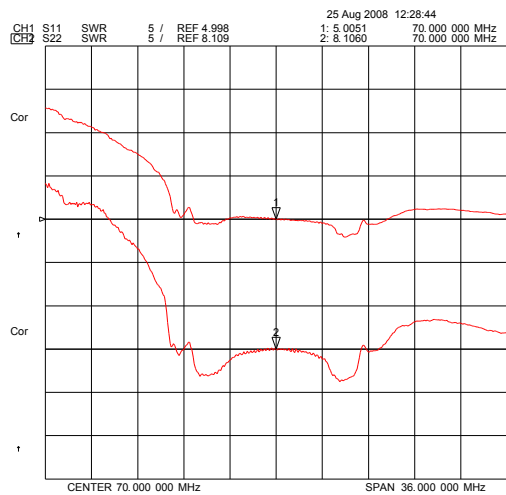
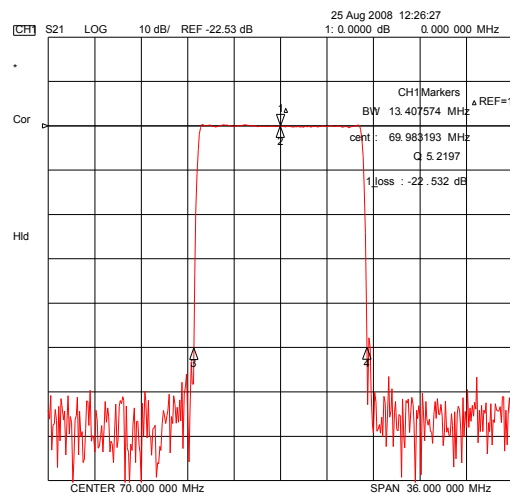
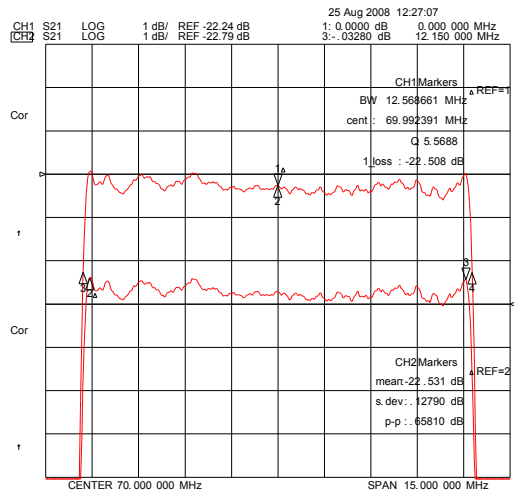
## 6. Typical Performance ( at +25°C )



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