

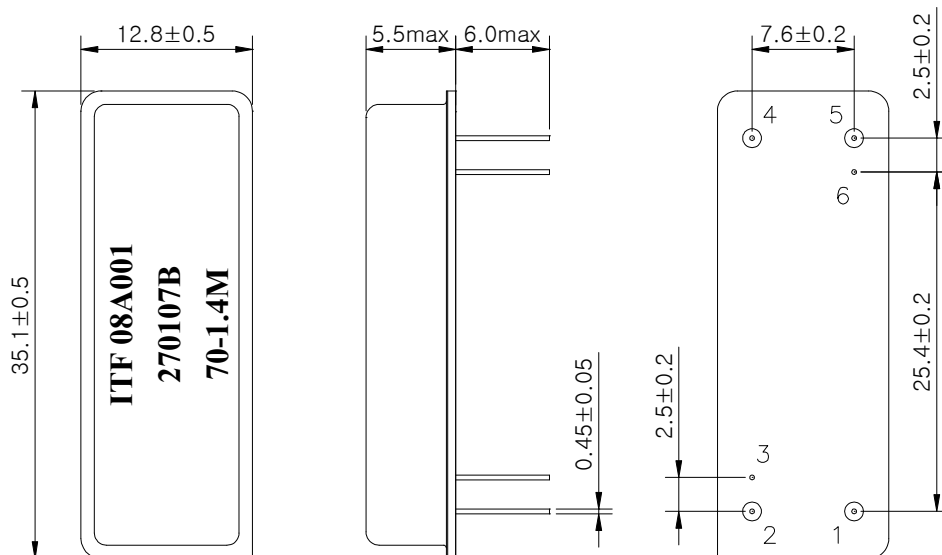
# SAW Bandpass Filter 270107B



## 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 |

|                                                                                     |                                                                                                                                   |           |             |     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|
|  | <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.  | 270107B     |     |
|                                                                                     |                                                                                                                                   | Rev. Date | 2008-08-17  |     |
|                                                                                     |                                                                                                                                   | Rev.      | NW8022-CS01 | 5/5 |

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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                  | -       | 20.7    | 22.5    |
| 2dB Bandwidth                          | MHz                 | 1.4     | 1.44    | 1.5     |
| 3dB Bandwidth                          | MHz                 | -       | 1.52    | -       |
| 25dB Bandwidth                         | MHz                 | -       | 2.12    | 2.3     |
| 40dB Bandwidth                         | MHz                 | -       | 2.3     | -       |
| Amplitude Ripple (Fo +/- 0.5 MHz)      | dB                  | -       | 0.4     | 1.0     |
| Group Delay Variation (Fo +/- 0.5 MHz) | nsec                | -       | 170     | 250     |
| Absolute Delay                         | usec                | -       | 3.6     | -       |
| Ultimate Rejection                     | dB                  | 50      | 55      | -       |
| Temperature Coefficient of Frequency   | ppm/°C <sup>2</sup> | -       | -0.03   | -       |

### 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

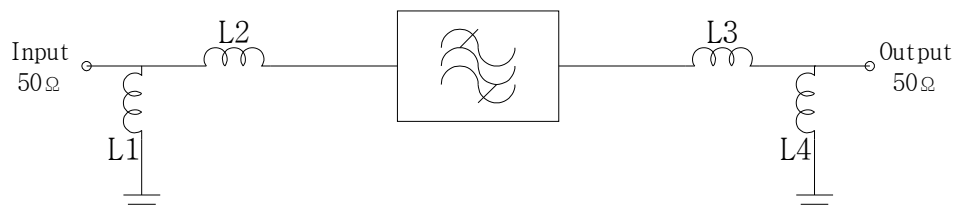
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## 4. Matching Schematic

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



$$L1 = L2 = L3 = L4 = 100\text{nH}$$

## 5. Marking Configuration

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

270107B<sup>3)</sup>

70<sup>4)</sup>-1.4M<sup>5)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

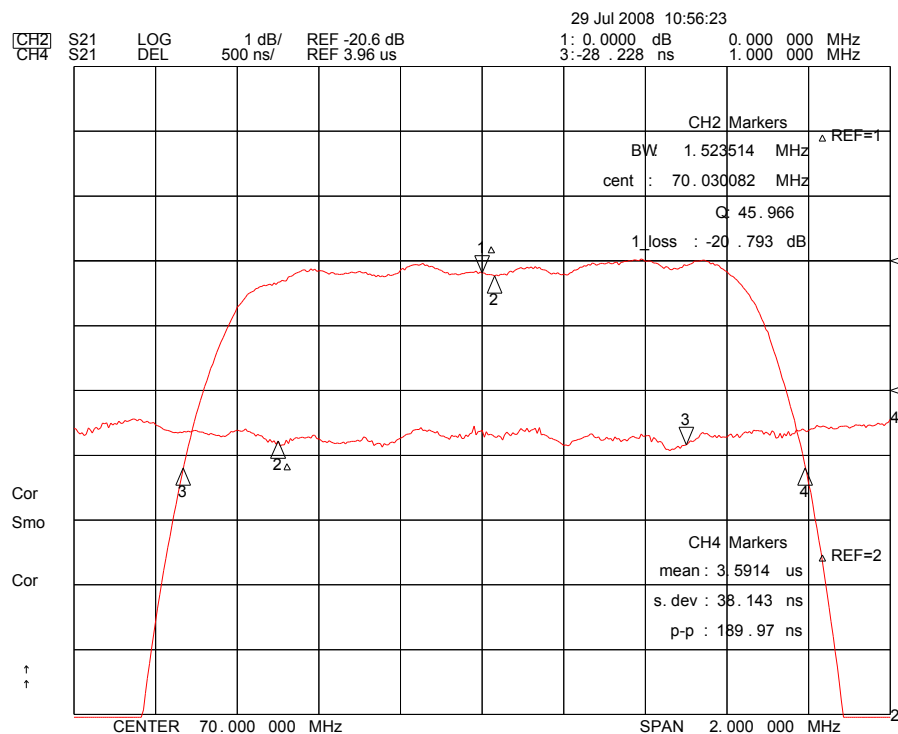
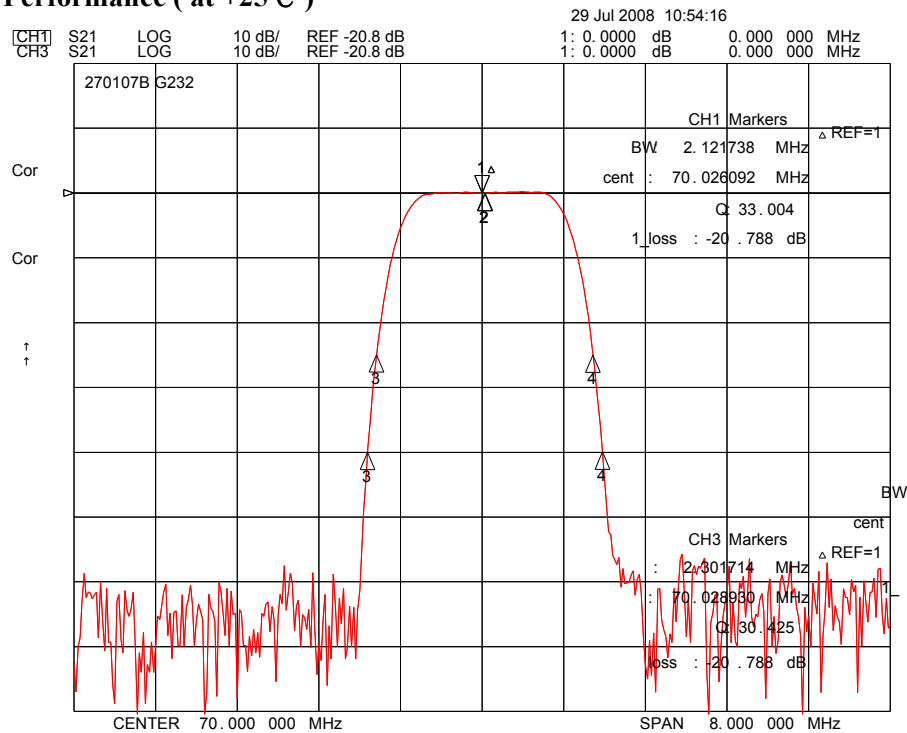
5) 2dB-Bandwidth

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



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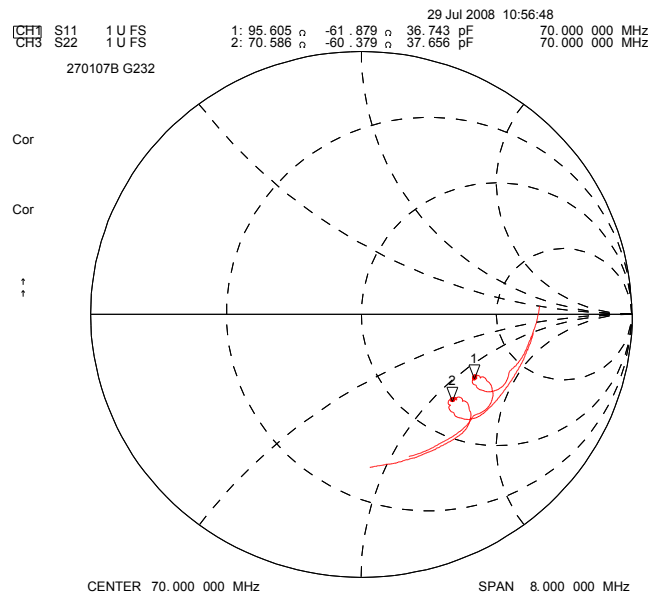
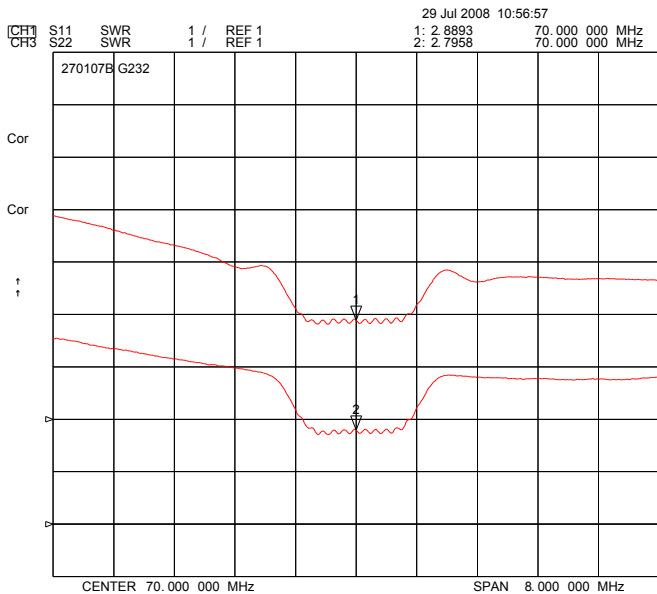
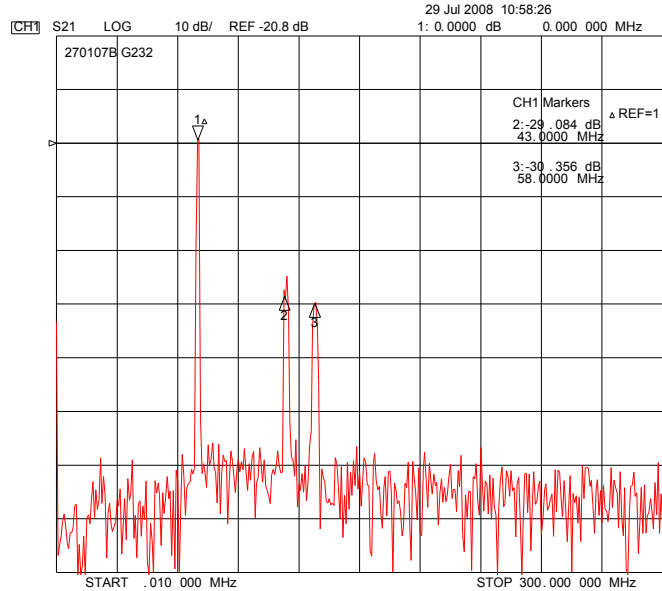
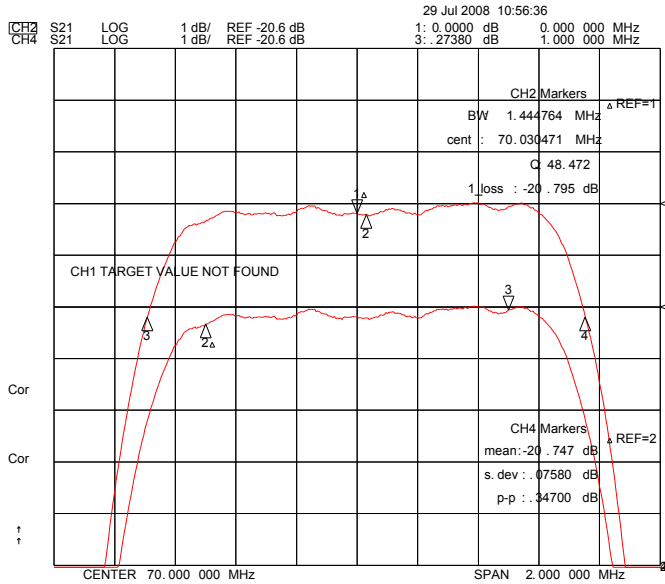
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