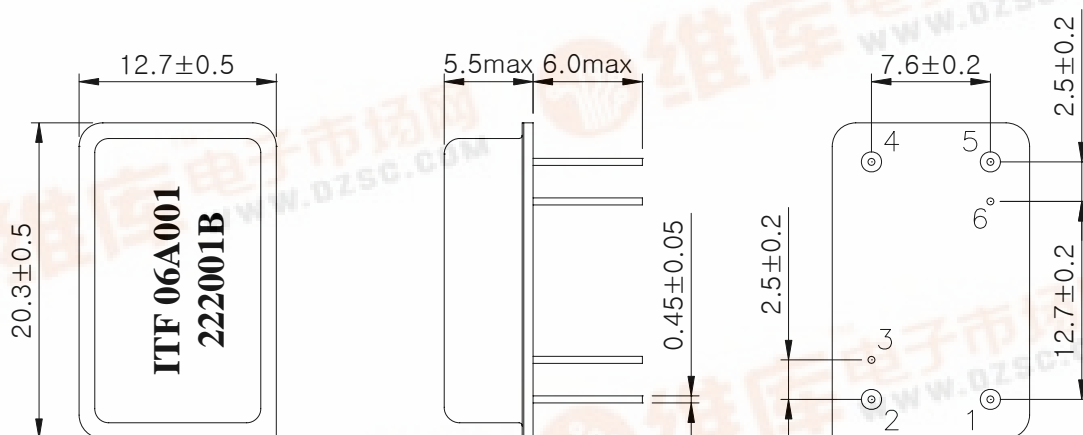


# SAW Bandpass Filter 222001B

## 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 : D2012

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.  | 222001B     |     |
|  |   | Rev. Date | 2006-05-22  |     |
|  |   | Rev.      | NM4004-CS03 | 1/5 |

## SAW Bandpass Filter 222001B

### 3. Specifications

Fo = 62.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

|   |        | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency                        | MHz    | 62.45   | 62.5    | 62.55   |
| Insertion Loss                          | dB     | -       | 25.5    | 26.5    |
| 1dB Bandwidth                           | MHz    | -       | 20.1    | -       |
| 3dB Bandwidth                           | MHz    | 20.4    | 20.5    | -       |
| 40dB Bandwidth                          | MHz    | -       | 22.4    | 22.5    |
| Amplitude Ripple (Fo +/- 9.75 MHz)      | dB     | -       | 0.6     | 1.0     |
| Group Delay Variation (Fo +/- 9.75 MHz) | nsec   | -       | 30      | 100     |
| Absolute Delay                          | usec   | -       | 1.83    | -       |
| Ultimate Rejection                      | dB     | 50      | 55      | -       |
| Temperature Coefficient of Frequency    | ppm/°C | -       | -72     | -       |

#### Notes :

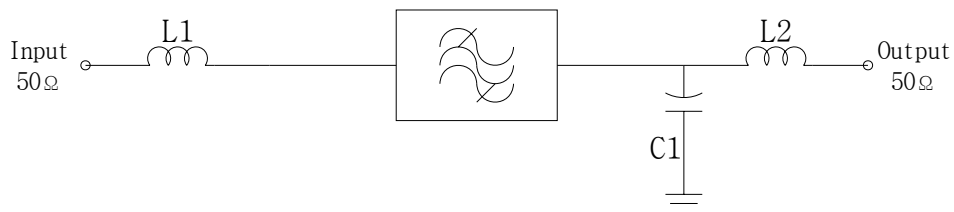
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

|   |   |           |             |     |
|---|---|-----------|-------------|-----|
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## SAW Bandpass Filter 222001B

### 4. Matching Schematic

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




$L1 = L2 = 120 \text{ nH}$ ,  
 $C1 = 14 \text{ pF}$

### 5. Marking Configuration

ITF<sup>1)</sup> 06A001<sup>2)</sup>  
222001B<sup>3)</sup>

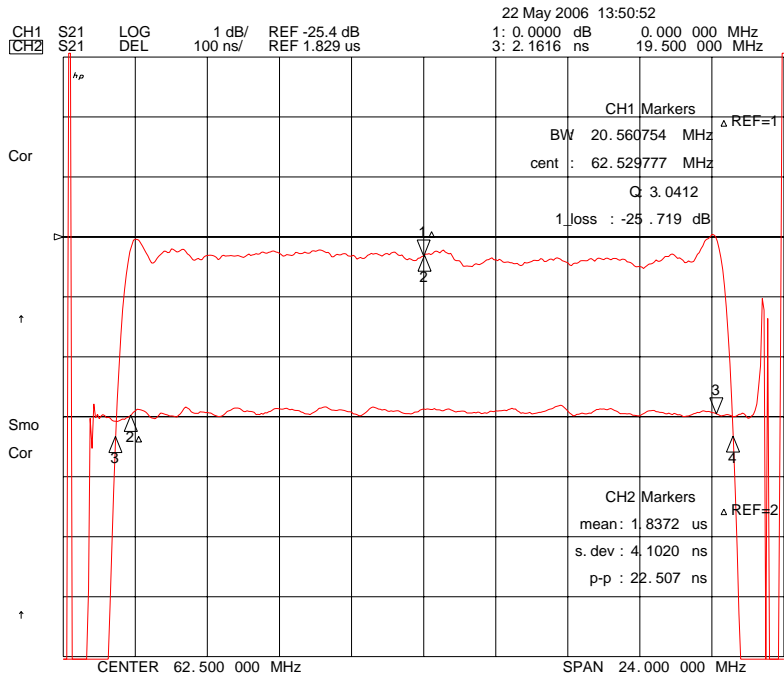
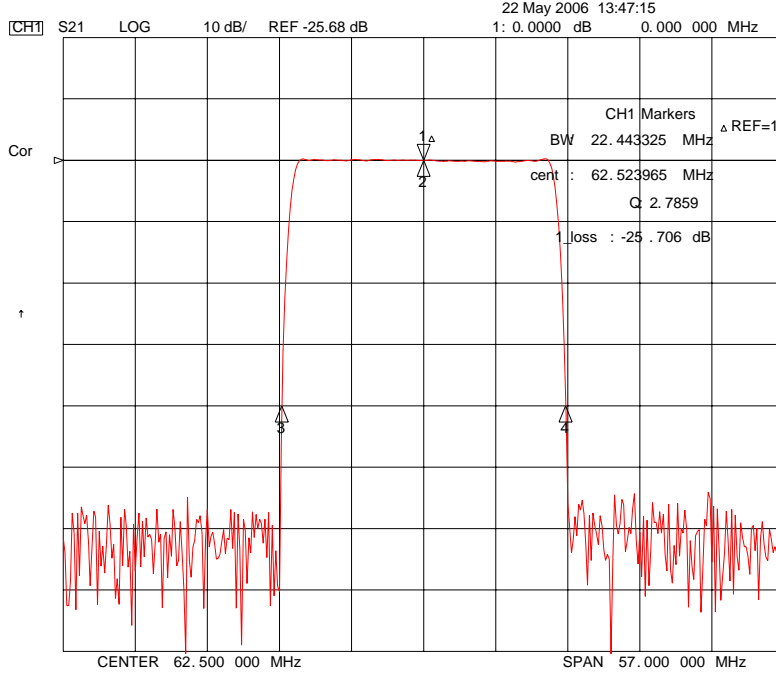
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

|   |   |           |             |     |
|---|---|-----------|-------------|-----|
| <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.  | 222001B     |     |
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# SAW Bandpass Filter 222001B

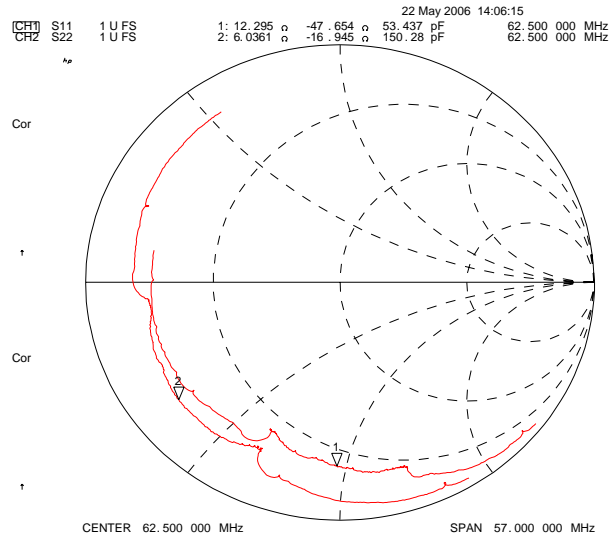
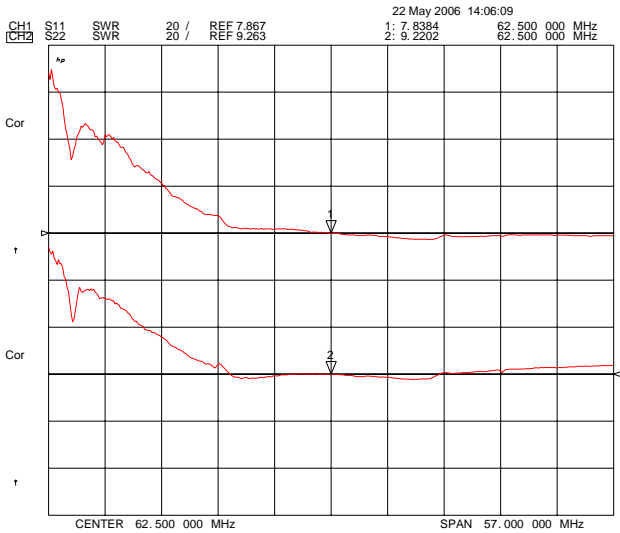
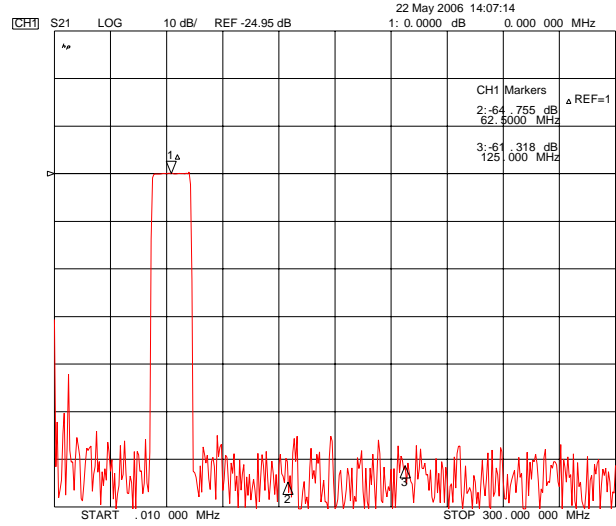
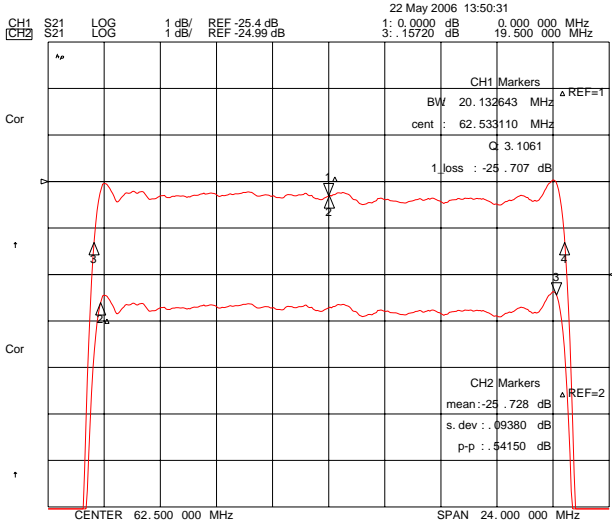


## 6. Typical Performance ( at +25°C )



|  |   |           |             |     |
|--|---|-----------|-------------|-----|
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# SAW Bandpass Filter 222001B



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