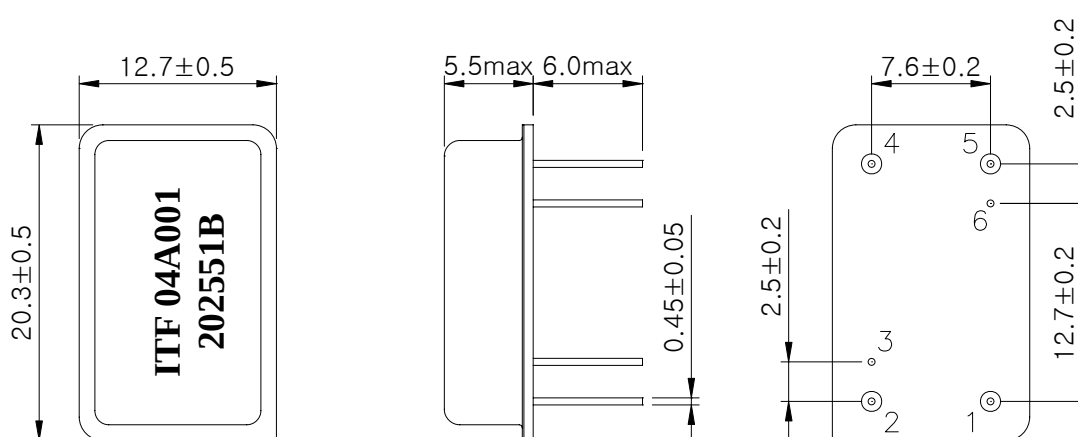


## SAW Bandpass Filter 202551B

### 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 : 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 |

|                                                                                                                     |                                                                                                                                   |           |             |     |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|
| <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.  | 202551B     |     |
|                                                                                                                     |                                                                                                                                   | Rev. Date | 2004-04-12  |     |
|                                                                                                                     |                                                                                                                                   | Rev.      | NM3002-CS02 | 1/5 |

## SAW Bandpass Filter 202551B

### 3. Specifications

Fo = 160.075 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

|                                             |        | Minimum | Typical | Maximum |
|---------------------------------------------|--------|---------|---------|---------|
| Center Frequency                            | MHz    | 160.0   | 160.075 | 160.15  |
| Insertion Loss                              | dB     | -       | 24.5    | 25.5    |
| 1dB Bandwidth                               | MHz    | 19.0    | 19.1    | -       |
| 3dB Bandwidth                               | MHz    | 19.5    | 19.55   | -       |
| 40dB Bandwidth                              | MHz    | -       | 21.3    | 21.5    |
| Amplitude Ripple (150.7 to 169.45 MHz)      | dB     | -       | 0.7     | 1.0     |
| Group Delay Variation (150.7 to 169.45 MHz) | nsec   | -       | 40      | 100     |
| Absolute Delay                              | usec   | -       | 1.79    | -       |
| 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

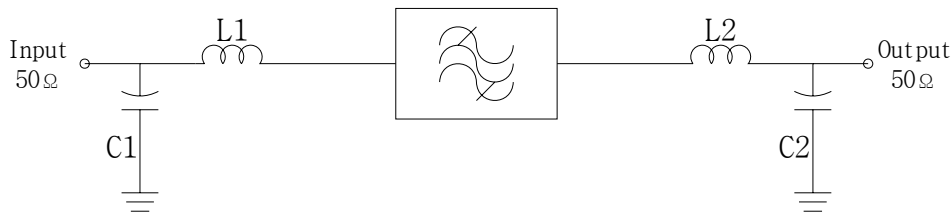
|                                                                                     |                                                                                                                                   |           |             |     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|
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# SAW Bandpass Filter 202551B



## 4. Matching Schematic

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



$L1 = 18\text{ nH}, \quad L2 = 22\text{ nH}$   
 $C1 = C2 = 27\text{ pF}$

## 5. Marking Configuration

ITF<sup>1)</sup> 04A001<sup>2)</sup>  
202551B<sup>3)</sup>

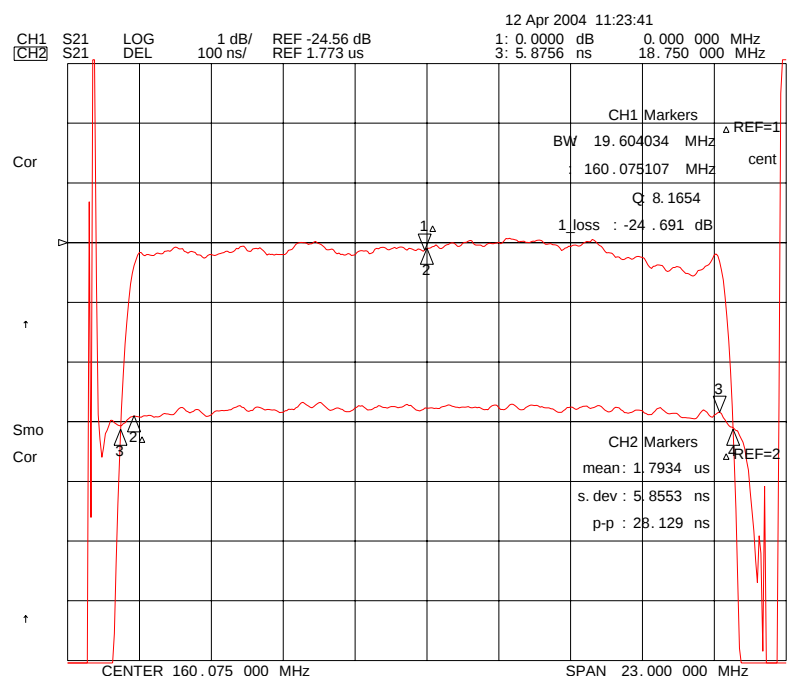
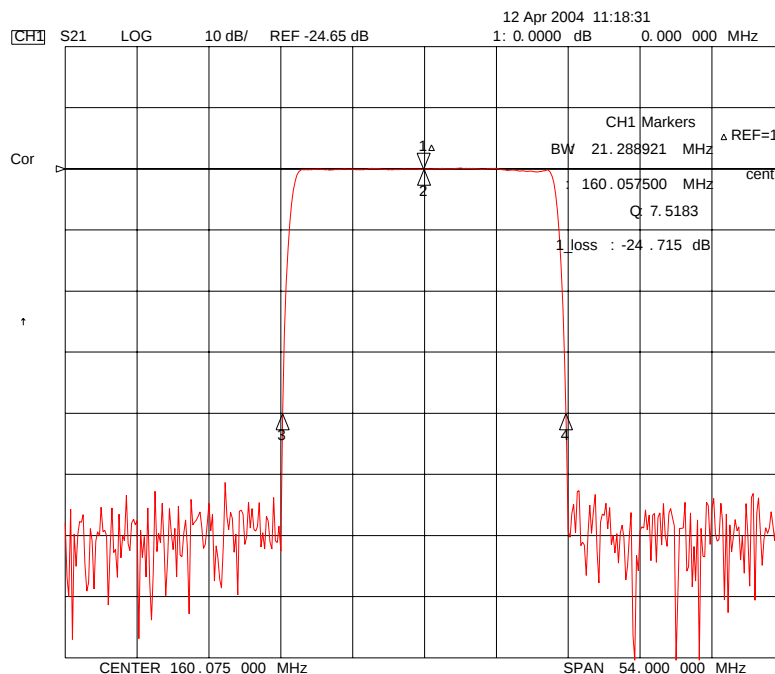
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

|                                                                                     |                                                                                                                                   |           |             |     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|
|  | <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.  | 202551B     |     |
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|                                                                                     |                                                                                                                                   | Rev.      | NM3002-CS02 | 3/5 |

# SAW Bandpass Filter 202551B

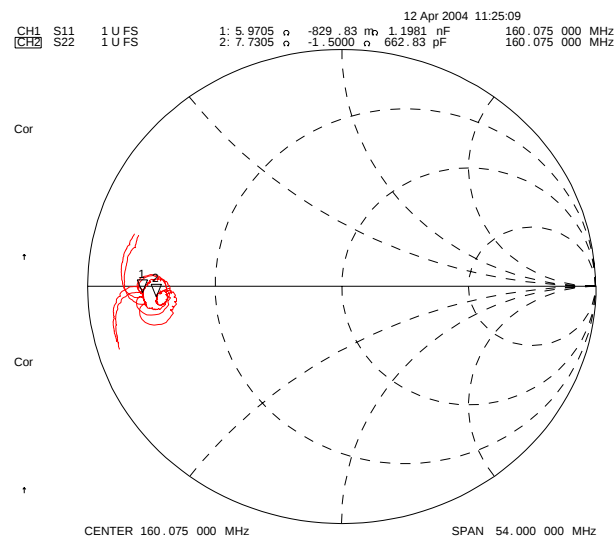
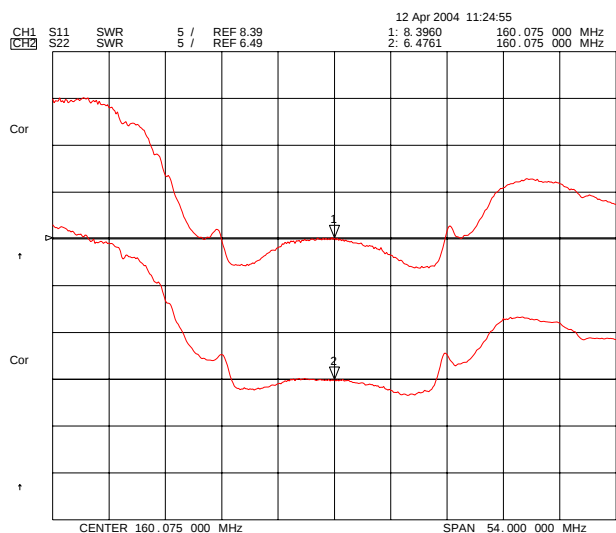
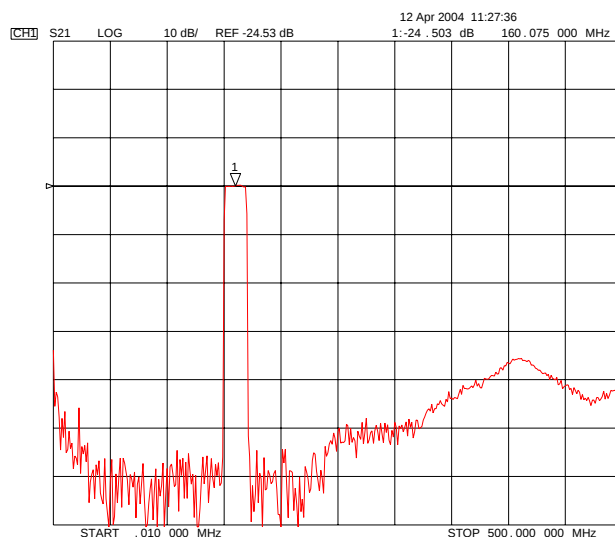
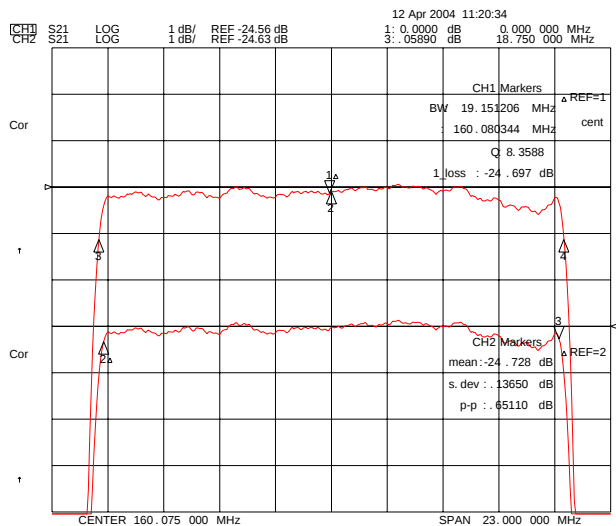


## 6. Typical Performance ( at +25℃ )



|                                                                                     |                                                                                                                                   |  |                      |     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--|----------------------|-----|
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|                                                                                     |                                                                                                                                   |  | Rev. Date 2004-04-12 |     |
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# SAW Bandpass Filter 202551B



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

Part No.

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Rev. Date

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NM3002-CS02

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