

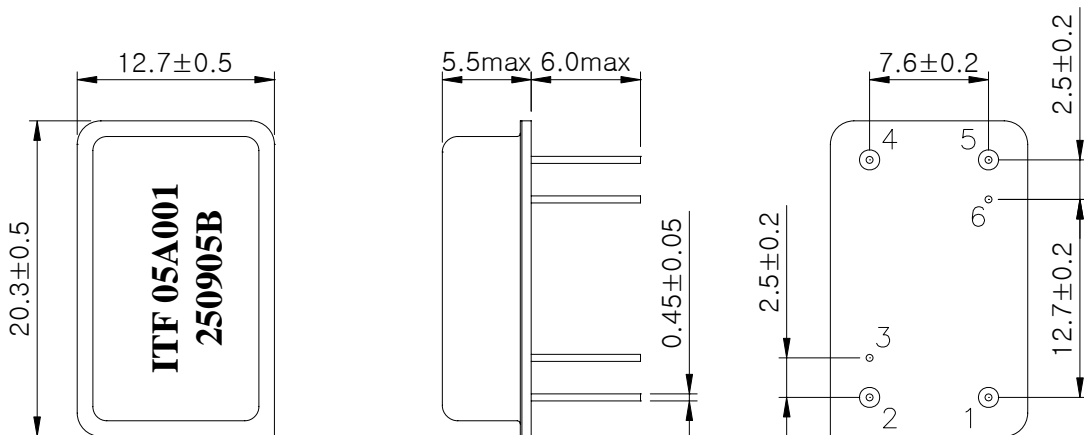
# SAW Bandpass Filter 250905B



## 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.  | 250905B     |     |
|   |   | Rev. Date | 2005-02-11  |     |
|   |   | Rev.      | NM5002-CS01 | 1/5 |

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## 3. Specifications

Fo = 160.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

|  |        | Minimum | Typical | Maximum |
|--|--------|---------|---------|---------|
| Center Frequency                         | MHz    | 159.9   | 160.0   | 160.1   |
| Insertion Loss                           | dB     | -       | 23.5    | 25.0    |
| 1dB Bandwidth                            | MHz    | 9.0     | 9.15    | -       |
| 3dB Bandwidth                            | MHz    | 9.4     | 9.45    | -       |
| 40dB Bandwidth                           | MHz    | -       | 10.85   | 10.95   |
| Amplitude Ripple (Fo +/- 4.375 MHz)      | dB     | -       | 0.7     | 1.0     |
| Group Delay Variation (Fo +/- 4.375 MHz) | nsec   | -       | 70      | 150     |
| Absolute Delay                           | usec   | -       | 2.97    | -       |
| Ultimate Rejection                       | dB     | 53      | 55      | -       |
| Temperature Coefficient of Frequency     | ppm/°C | -       | -23     | -       |

### 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

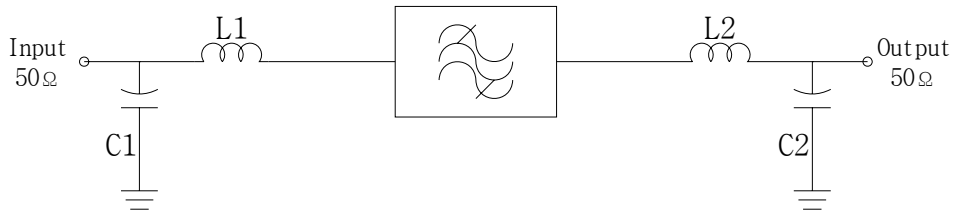
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## 4. Matching Schematic

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



L1 = 39nH , L2 = 39nH

C1 = 30pF , C2 = 47pF

## 5. Marking Configuration

ITF<sup>1)</sup> 05A001<sup>2)</sup>

250905B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

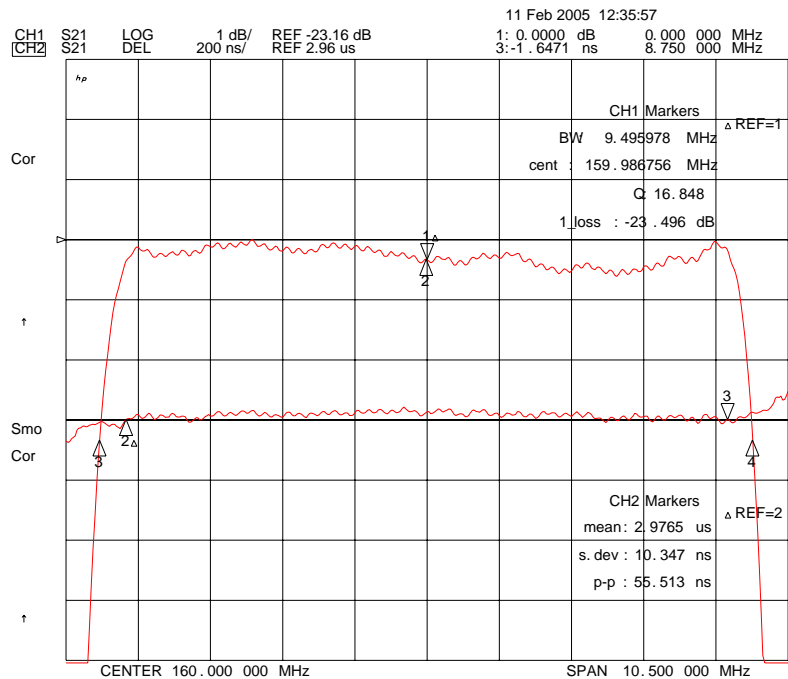
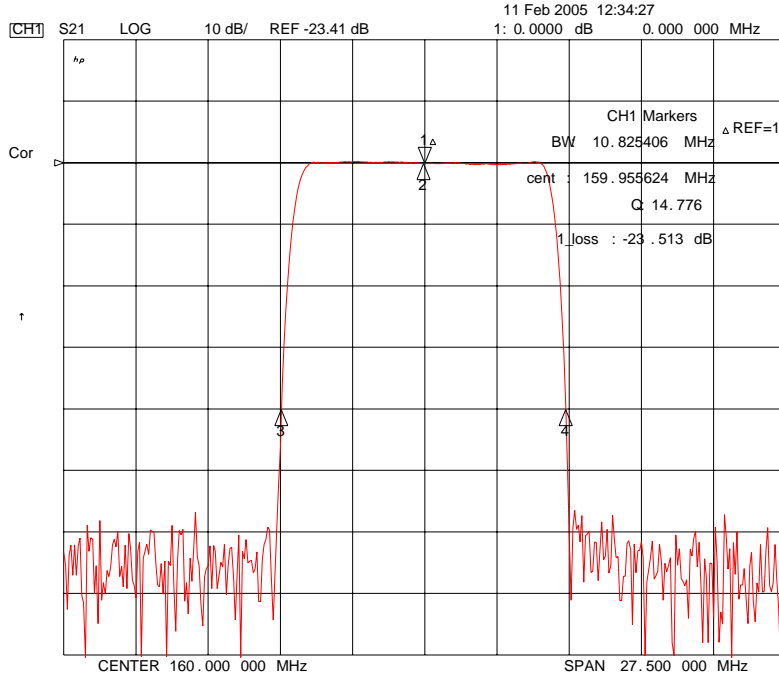
3) Part Number

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



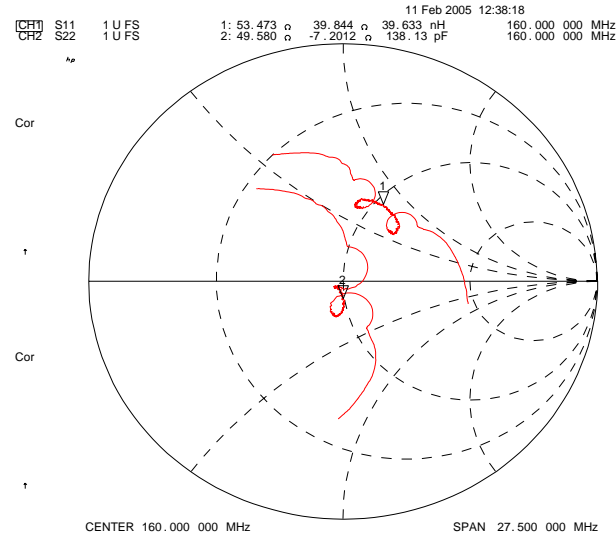
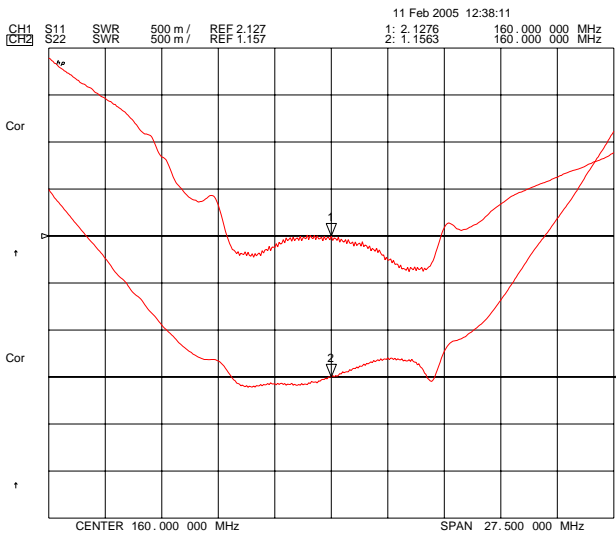
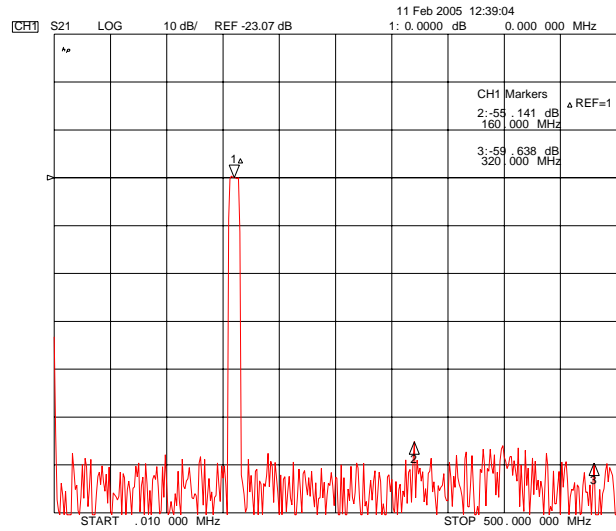
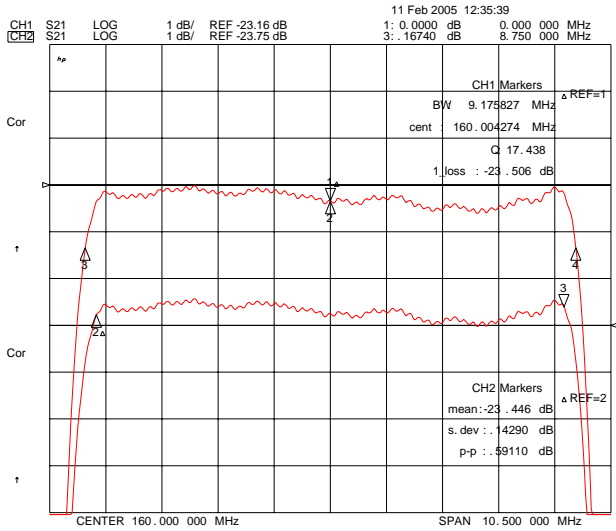
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