

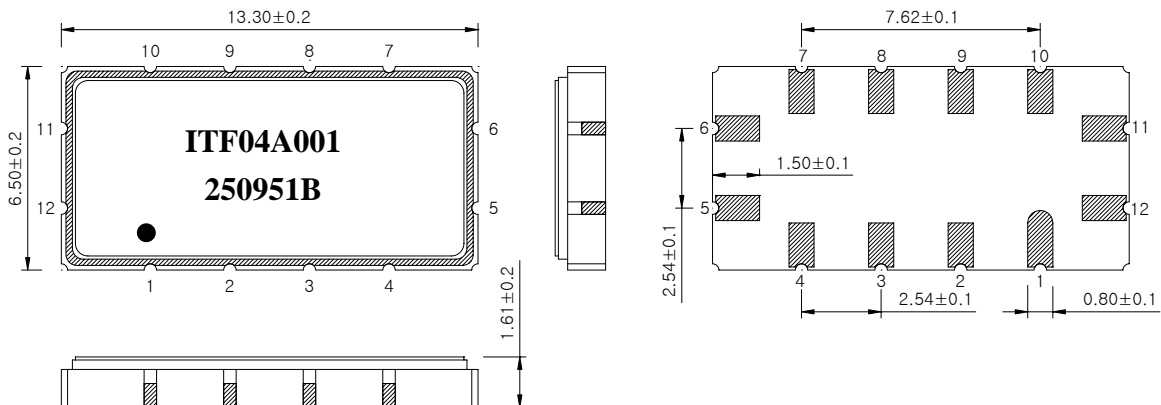
# SAW Bandpass Filter 250951B



## 1. Features

- IF Bandpass Filter
- High-Attenuation
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimensions



**Package : S1365**

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub> Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

| Pad Configuration |             |
|-------------------|-------------|
| 11                | Input       |
| 5                 | Output      |
| 6, 12             | Ground      |
| Other             | Case ground |



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 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
 Gyeonggi-Do, Korea 421-809

|           |             |     |
|-----------|-------------|-----|
| Part No.  | 250951B     |     |
| Rev. Date | 2005-02-24  |     |
| Rev.      | NW4003-CS03 | 1/5 |

# SAW Bandpass Filter 250951B



## 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    | -       | 160.0   | -       |
| Insertion Loss                           | dB     | -       | 23.0    | 25.0    |
| 1dB Bandwidth                            | MHz    | 8.8     | 9.0     | -       |
| 3dB Bandwidth                            | MHz    | -       | 9.35    | -       |
| 40dB Bandwidth                           | MHz    | -       | 10.9    | 10.95   |
| Amplitude Ripple (Fo +/- 4.375 MHz)      | dB     | -       | 0.8     | 1.0     |
| Group Delay Variation (Fo +/- 4.375 MHz) | nsec   | -       | 100     | -       |
| Absolute Delay                           | usec   | -       | 1.8     | -       |
| Ultimate Rejection                       | dB     | 45      | 50      | -       |
| Temperature Coefficient of Frequency     | ppm/°C | -       | -23.0   | -       |

### 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

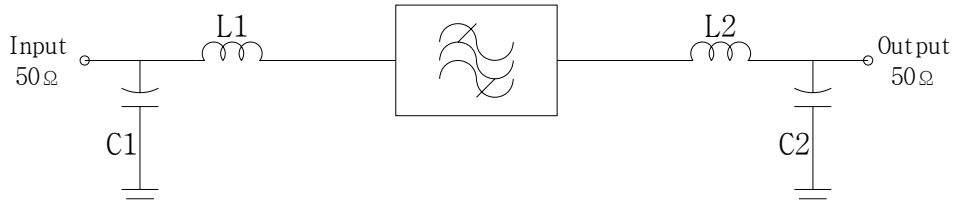
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|---|---|-----------|-------------|-----|
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|   |   | Rev.      | NW4003-CS03 | 2/5 |

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## 4. Matching Schematic

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



L1 = 15 nH,      L2 = 27 nH  
C1 = 27 pF,      C2 = 47 pF


## 5. Marking Configuration

ITF<sup>1)</sup> 04A001<sup>2)</sup>

250951B<sup>3)</sup>

● 4)

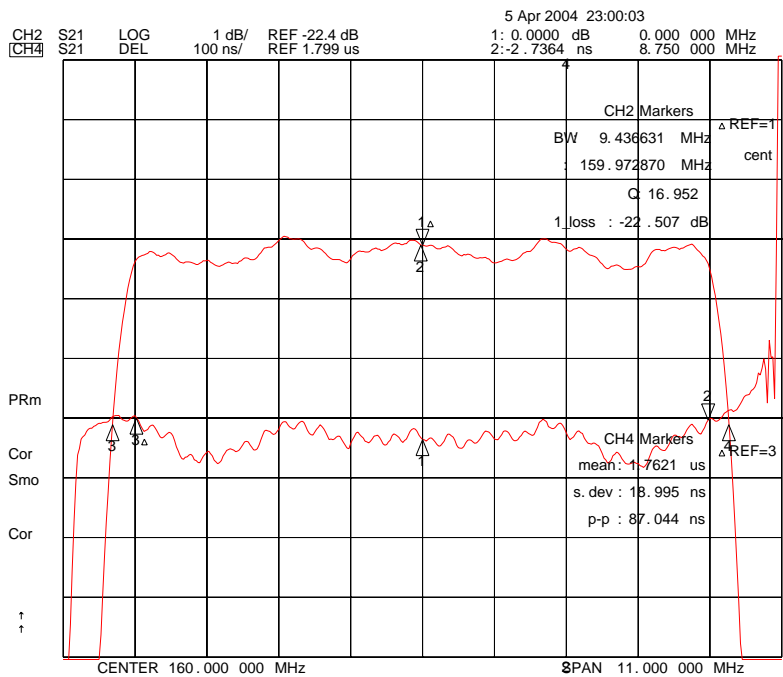
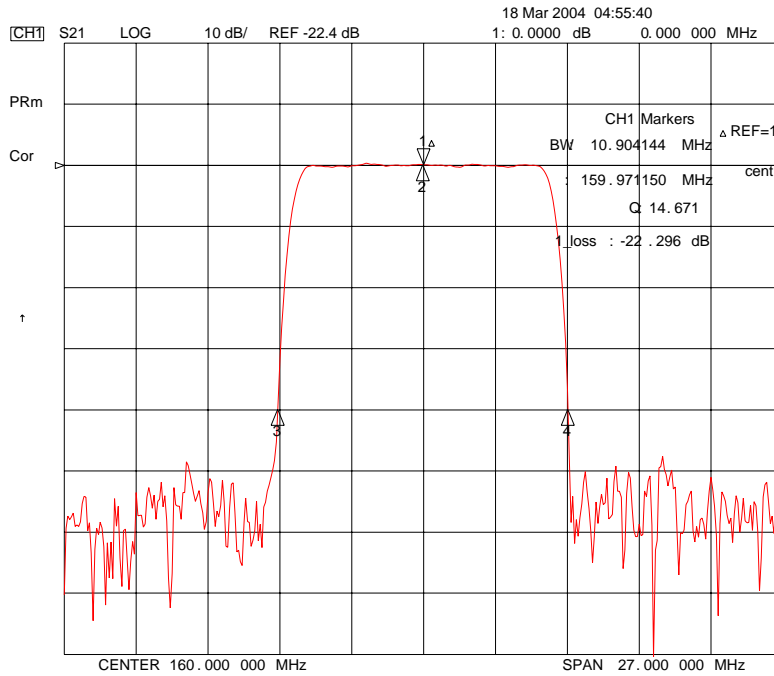
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

|   |   |           |             |     |
|---|---|-----------|-------------|-----|
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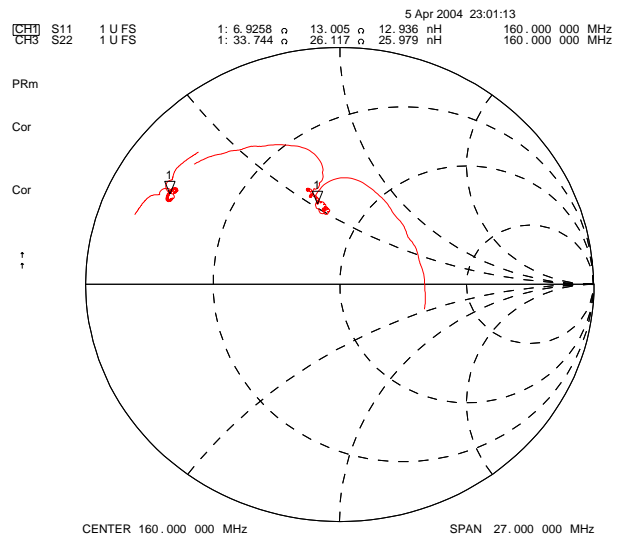
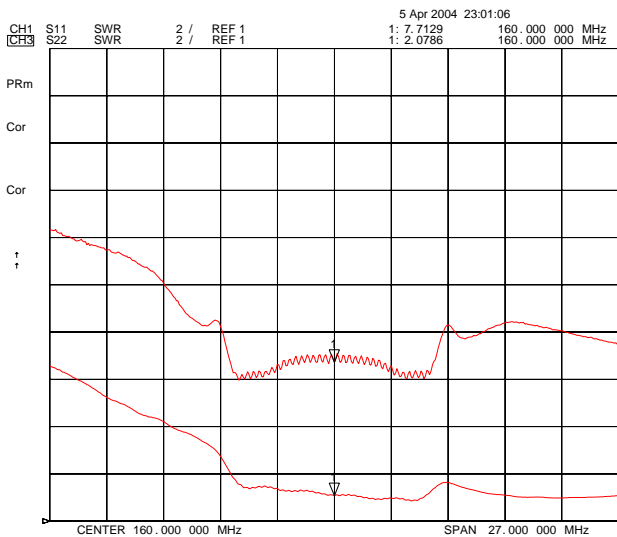
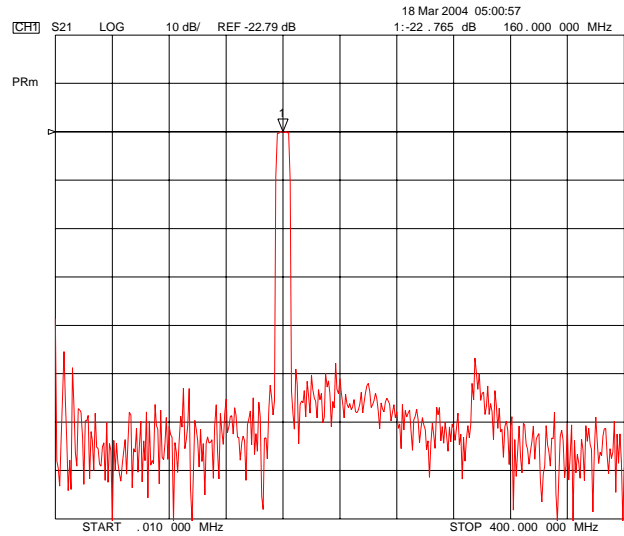
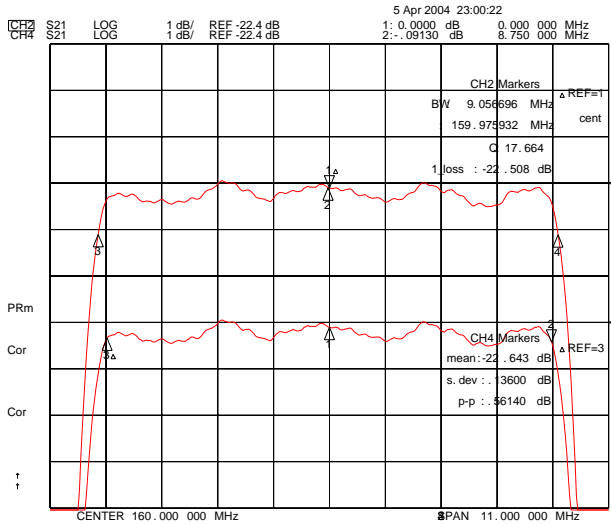


## 6. Typical Performance ( at +25°C )



|  |   |           |             |     |
|--|---|-----------|-------------|-----|
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Rev. NW4003-CS03 5/5