

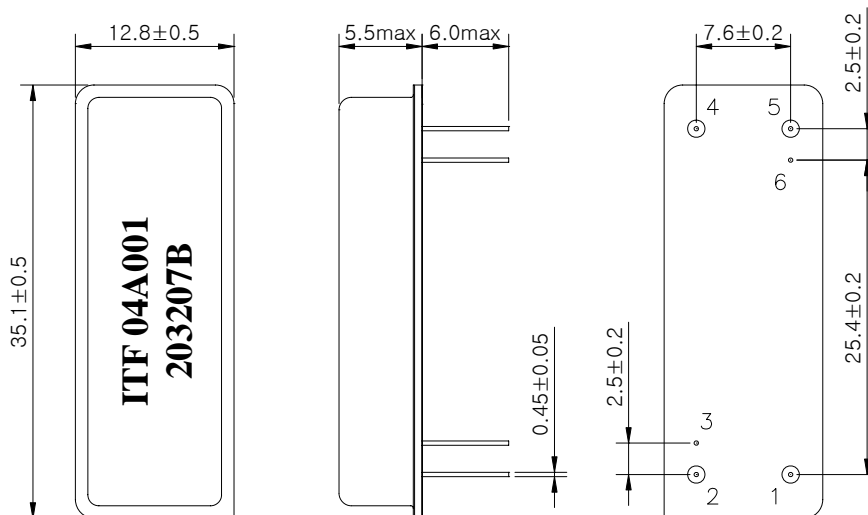
# SAW Bandpass Filter 203207B



## 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 : 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 |

|   |   |           |             |     |
|---|---|-----------|-------------|-----|
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|   |   | Rev. Date | 2004-04-26  |     |
|   |   | Rev.      | NI0024-CS02 | 1/5 |

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## 3. Specifications

Fo = 63.29 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

|   |        | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency                        | MHz    | 63.26   | 63.29   | 63.32   |
| Insertion Loss                          | dB     | -       | 21.9    | 23.9    |
| 1.5dB Bandwidth                         | MHz    | -       | 3.62    | -       |
| 3dB Bandwidth                           | MHz    | 3.75    | 3.85    | -       |
| 40dB Bandwidth                          | MHz    | -       | 5.0     | 5.5     |
| Amplitude Ripple (Fo +/- 1.55 MHz)      | dB     | -       | 1.5     | 2.0     |
| Group Delay Variation (Fo +/- 1.55 MHz) | nsec   | -       | 150     | 200     |
| Absolute Delay                          | usec   | -       | 2.99    | -       |
| 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

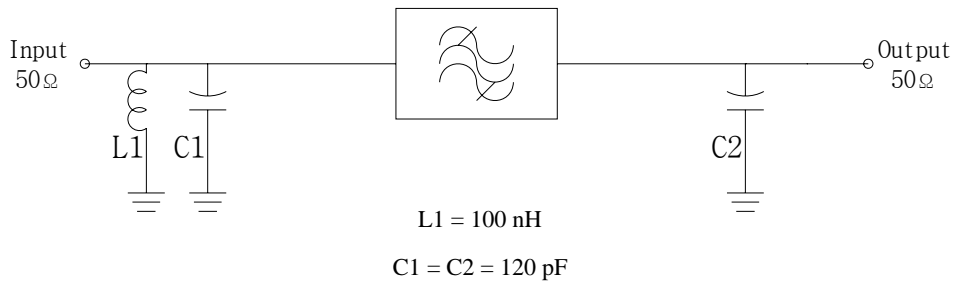
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|---|---|-----------|-------------|-----|
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## 4. Matching Schematic


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



## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
203207B<sup>3)</sup>

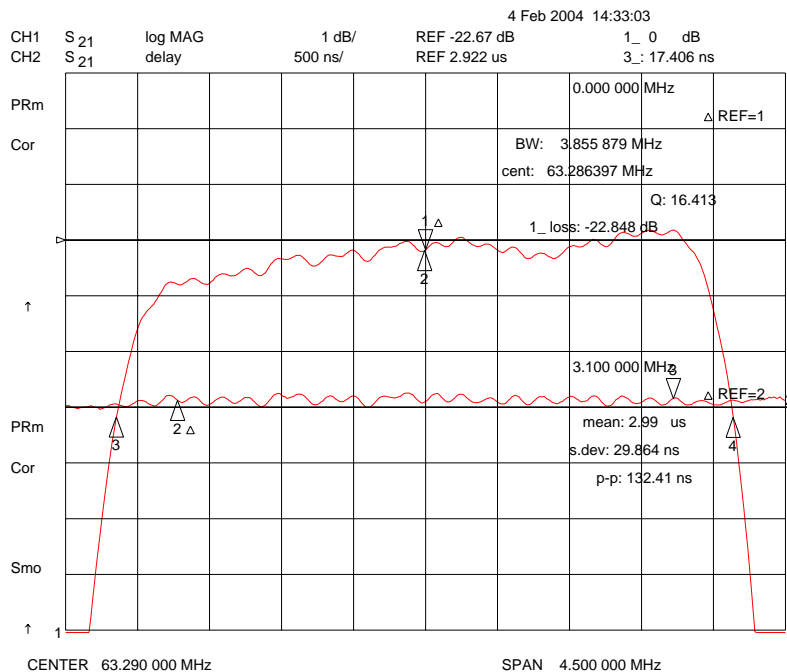
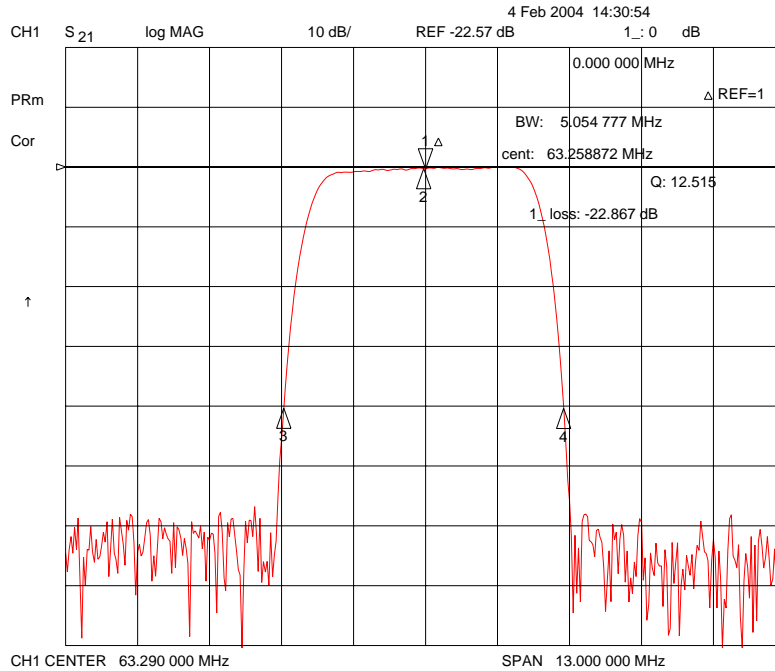
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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



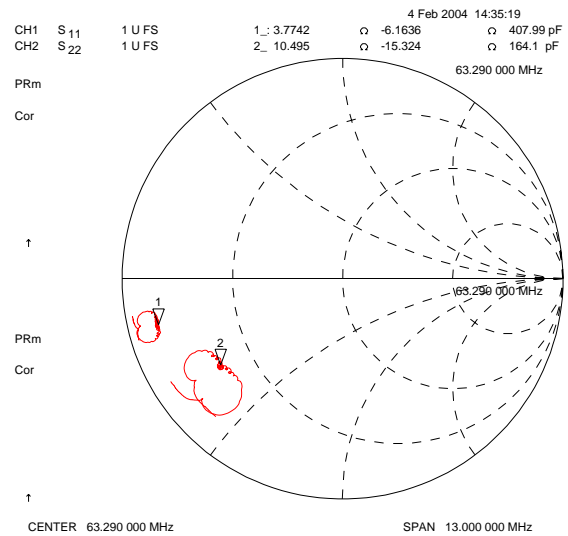
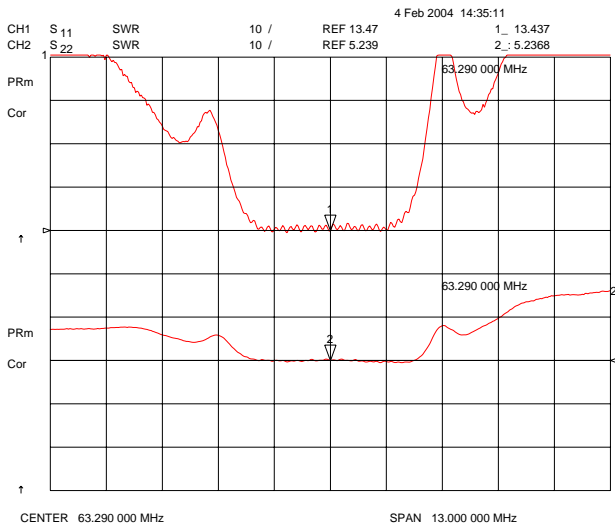
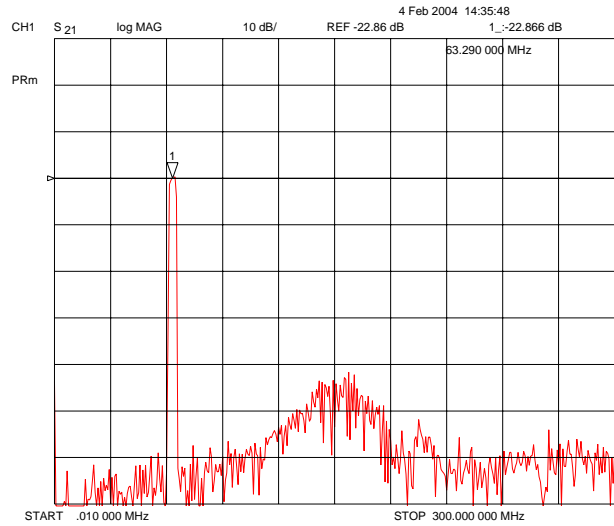
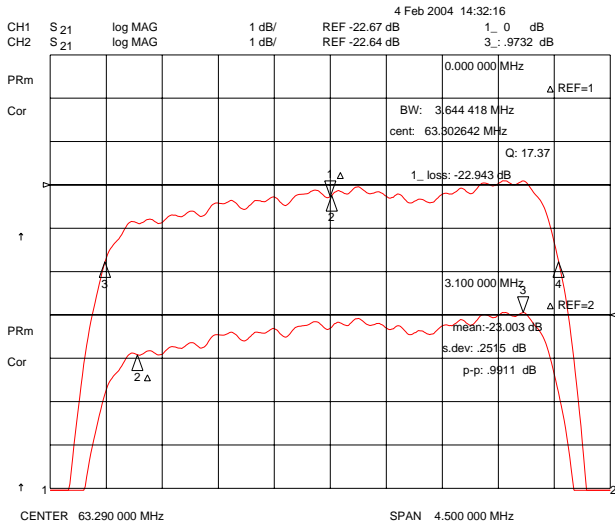
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