

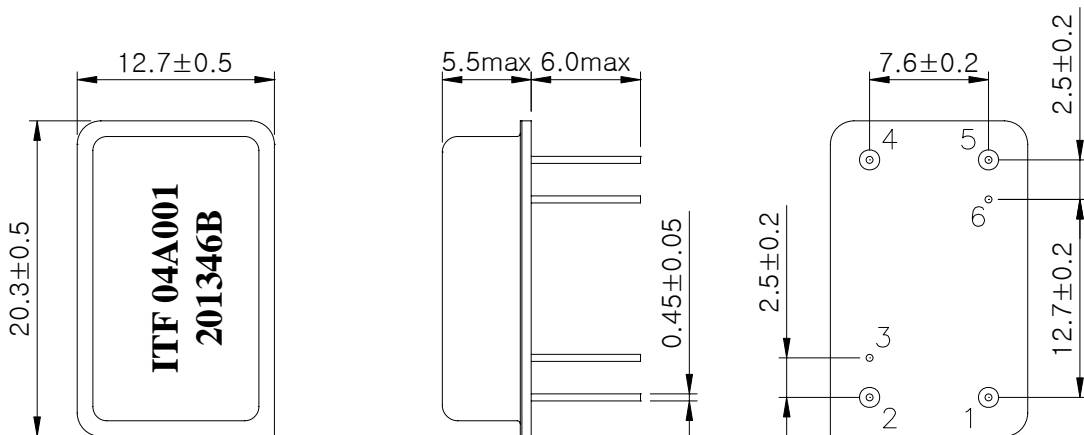
# SAW Bandpass Filter 201346B



## 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 |

|   |   |           |             |     |
|---|---|-----------|-------------|-----|
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|   |   | Rev. Date | 2004-04-30  |     |
|   |   | Rev.      | NI1030-CS02 | 1/5 |

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## 3. Specifications

Fo = 140.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

|  |        | Minimum | Typical | Maximum |
|--|--------|---------|---------|---------|
| Center Frequency                       | MHz    | 139.9   | 140.0   | 140.1   |
| Insertion Loss                         | dB     | -       | 24.0    | 26.0    |
| 1dB Bandwidth                          | MHz    | -       | 13.7    | -       |
| 3dB Bandwidth                          | MHz    | 14.0    | 14.35   | -       |
| 40dB Bandwidth                         | MHz    | -       | 17.12   | 17.3    |
| Amplitude Ripple (Fo +/- 6.5 MHz)      | dB     | -       | 0.7     | 1.0     |
| Group Delay Variation (Fo +/- 6.5 MHz) | nsec   | -       | 50      | 100     |
| Absolute Delay                         | usec   | -       | 1.91    | -       |
| Ultimate Rejection                     | dB     | 45      | 48      | -       |
| Temperature Coefficient of Frequency   | ppm/°C | -       | -94     | -       |

### 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

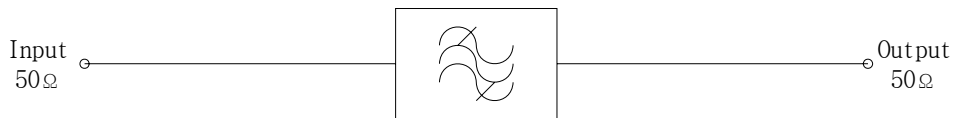
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|---|---|-----------|-------------|-----|
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## 4. Matching Schematic


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



## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
201346B<sup>3)</sup>

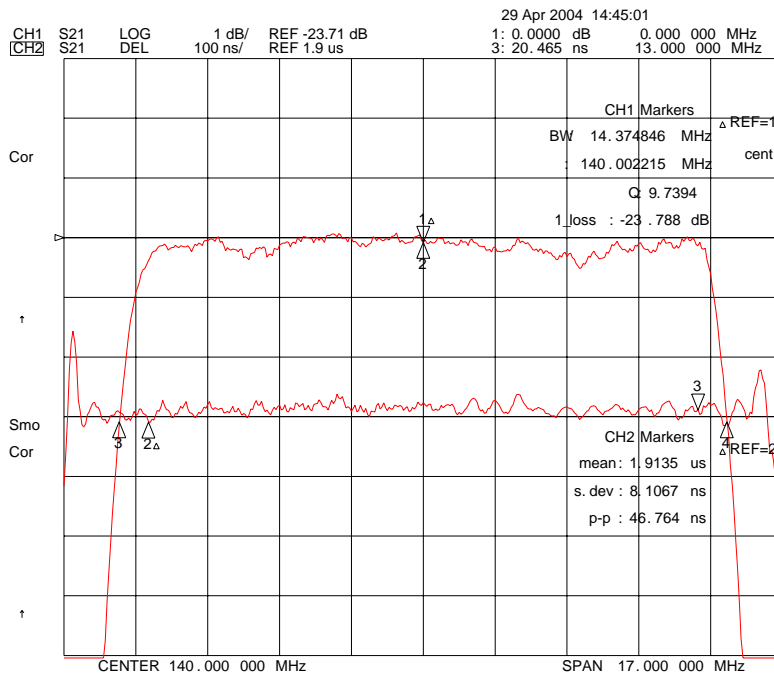
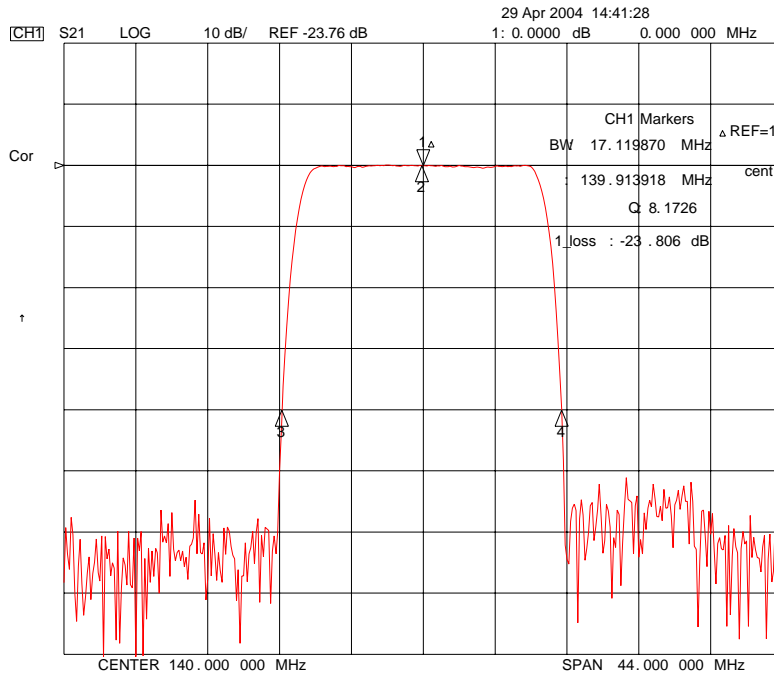
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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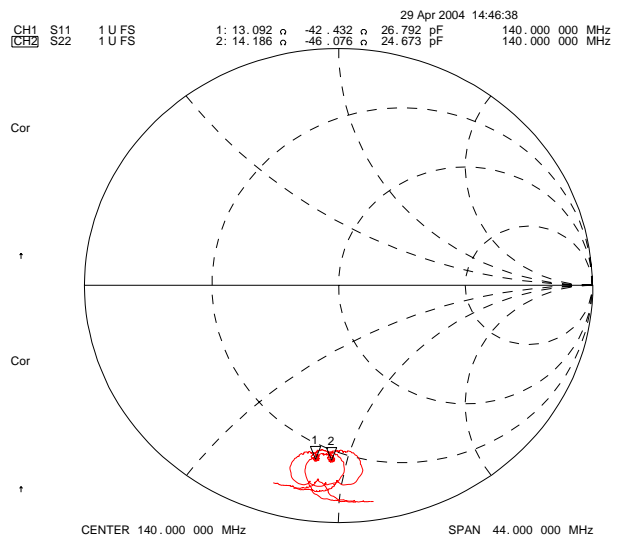
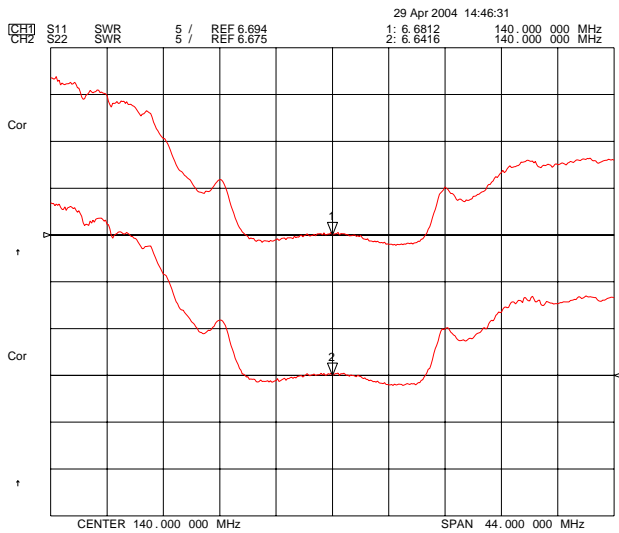
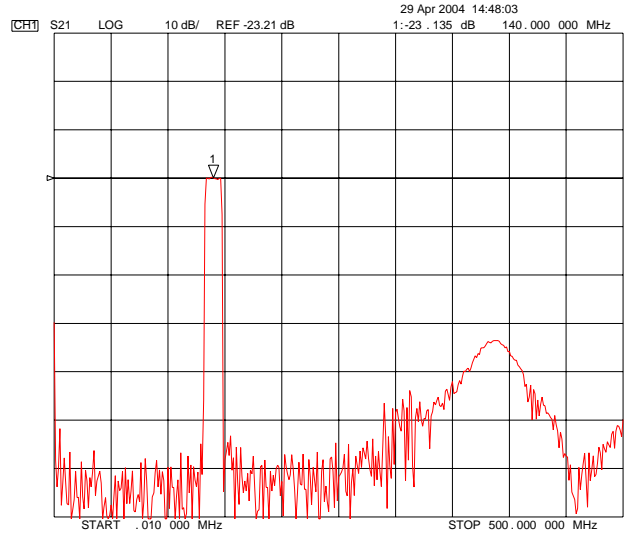
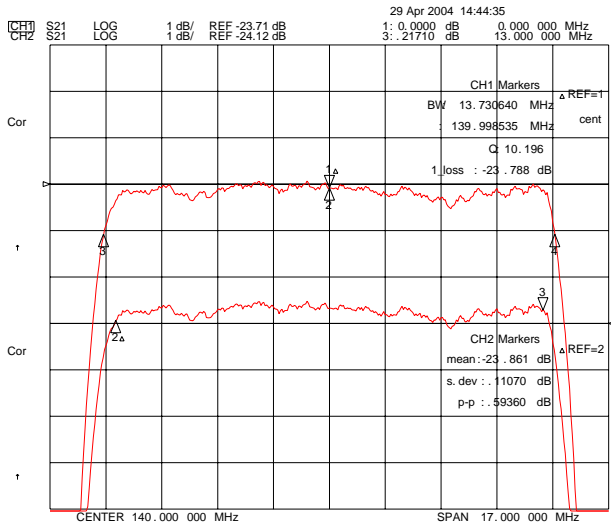
## 6. Typical Performance ( at +25°C )



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