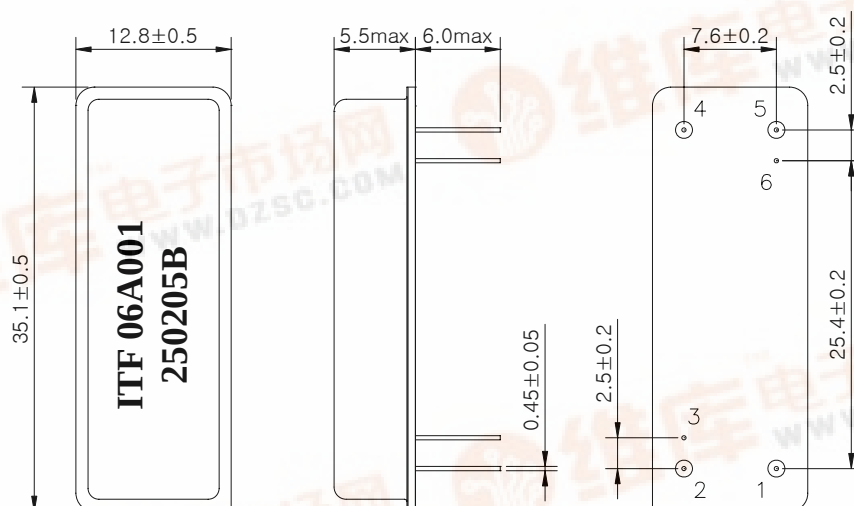


## SAW Bandpass Filter 250205B

### 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 : 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       |
| 4    | Output      |
| 2, 5 | Ground      |
| 3, 6 | Case ground |

|                                                                                     |                                                                                                                             |           |             |     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----|
|  | <b>ITF Co., Ltd.</b><br>102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No.  | 250205B     |     |
|                                                                                     |                                                                                                                             | Rev. Date | 2006-07-11  |     |
|                                                                                     |                                                                                                                             | Rev.      | NW6004-CS01 | 1/5 |

## SAW Bandpass Filter 250205B

### 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                 | 139.95  | 140.0   | 140.05  |
| Insertion Loss                          | dB                  | -       | 23.5    | 25.0    |
| 1.5dB Bandwidth                         | MHz                 | 2.0     | 2.16    | -       |
| 30dB Bandwidth                          | MHz                 | -       | 2.74    | 2.8     |
| 45dB Bandwidth                          | MHz                 | -       | 2.84    | 3.2     |
| Amplitude Ripple (Fo +/- 0.95 MHz)      | dB                  | -       | 0.3     | 1.0     |
| Group Delay Variation (Fo +/- 0.95 MHz) | nsec                | -       | 210     | -       |
| Absolute Delay                          | usec                | -       | 4.6     | 5.0     |
| Relative attenuation                    |                     |         |         |         |
| 2.0 +/- 0.4 MHz                         | dB                  | 25      | 30      |         |
| 2.0 +/- 0.6 MHz                         | dB                  | 45      | 50      |         |
| Temperature Coefficient of Frequency    | ppm/°C <sup>2</sup> | -       | -0.03   | -       |

#### 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

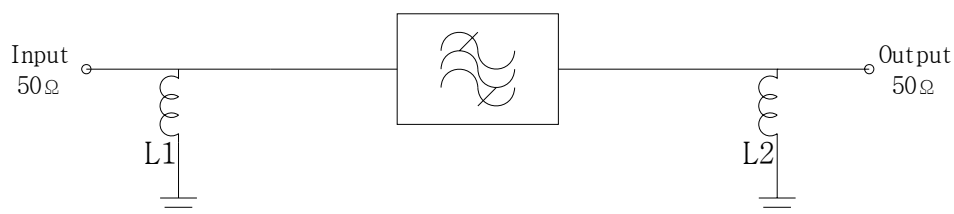
|                                                                                     |                                                                                                                                |           |             |     |
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## SAW Bandpass Filter 250205B



### 4. Matching Schematic

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



$$L1 = L2 = 39 \text{ nH}$$

### 5. Marking Configuration

ITF<sup>1)</sup> 06A001<sup>2)</sup>  
250205B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

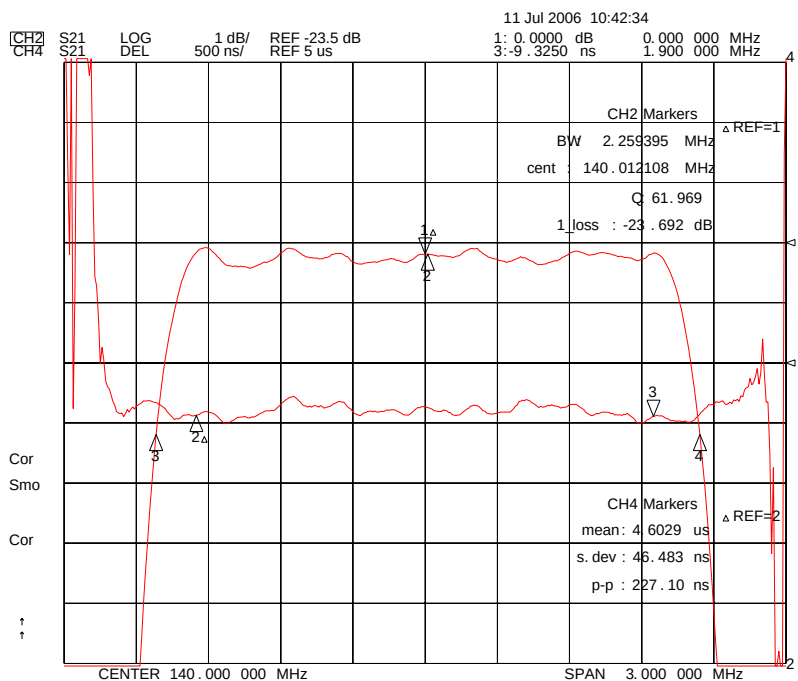
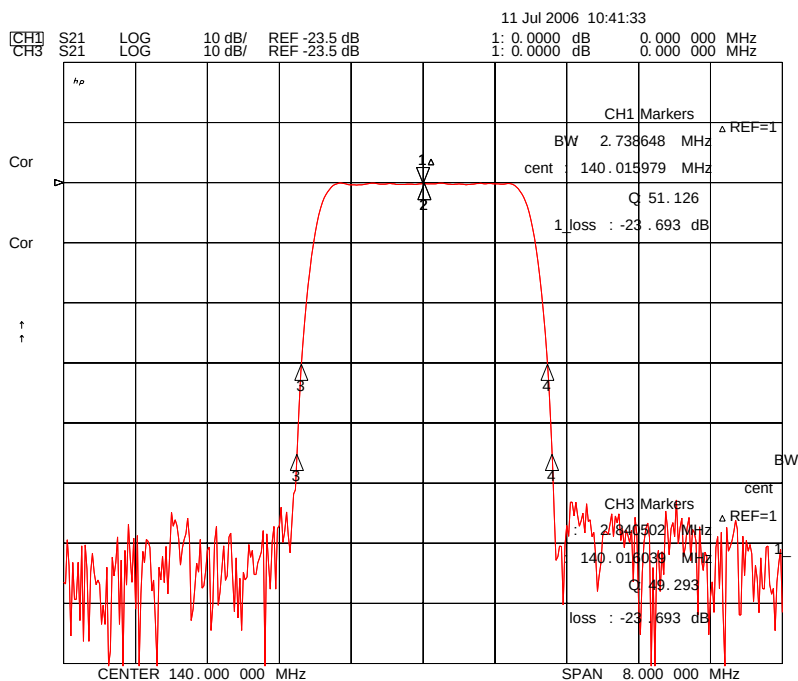
3) Part Number

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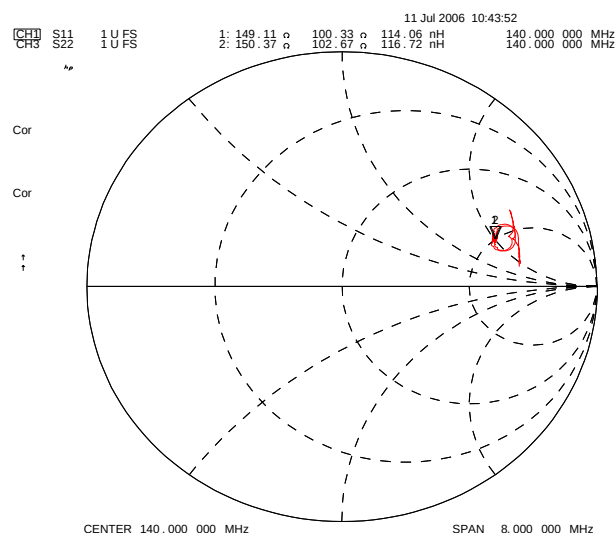
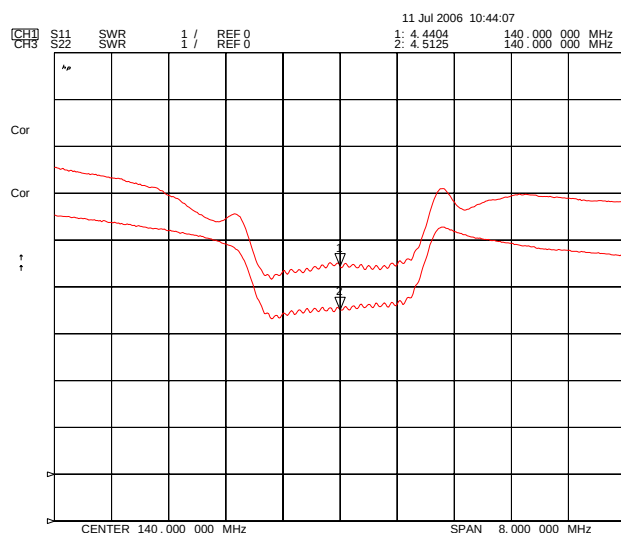
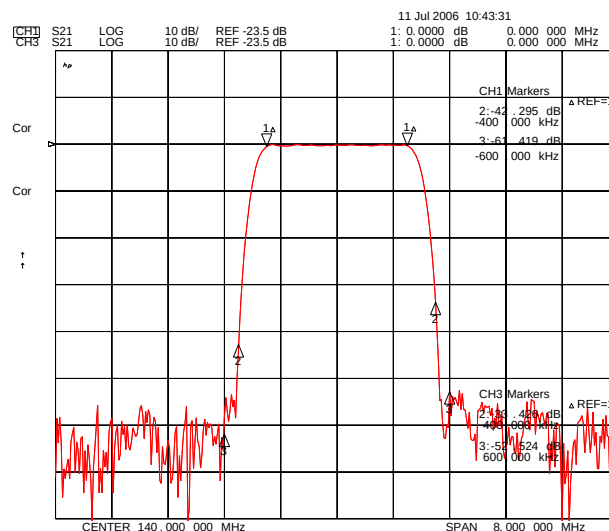
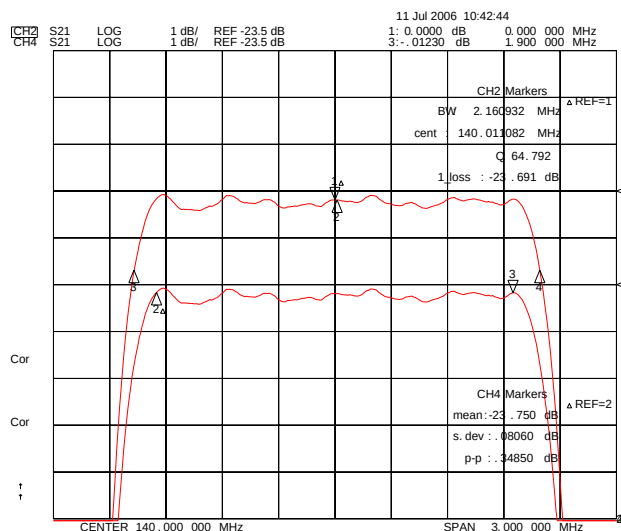


## 6. Typical Performance ( at +25℃ )



|  |                                                                                                                             |  |                      |                 |
|--|-----------------------------------------------------------------------------------------------------------------------------|--|----------------------|-----------------|
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# SAW Bandpass Filter 250205B



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

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