

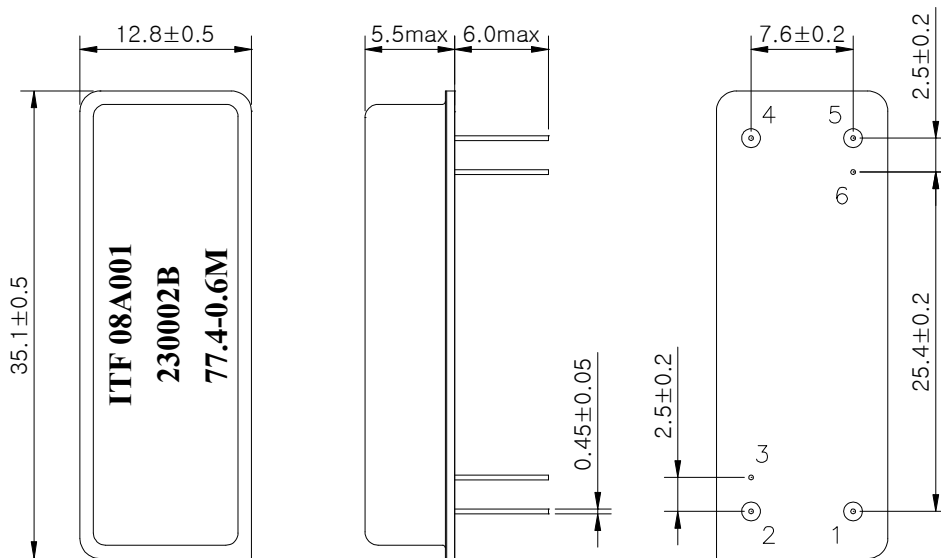
SAW Bandpass Filter 230002B



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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| Part No. | 230002B | |
| Rev. Date | 2008-11-12 | |
| Rev. | NW8030-CS01 | 1/5 |

SAW Bandpass Filter 230002B



3. Specifications

Fo = 77.4 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| | | Minimum | Typical | Maximum |
|--|---------------------|---------|---------|---------|
| Center Frequency | MHz | - | 77.4 | - |
| Insertion Loss | dB | - | 19.5 | 22.0 |
| 1dB Bandwidth | MHz | 0.5 | 0.62 | - |
| 3dB Bandwidth | MHz | - | 0.8 | - |
| 20dB Bandwidth | MHz | - | 1.3 | 1.4 |
| 40dB Bandwidth | MHz | - | 1.54 | 1.62 |
| Amplitude Ripple (Fo +/- 0.225 MHz) | dB | - | 0.6 | 1.0 |
| Group Delay Variation (Fo +/- 0.225 MHz) | nsec | - | 180 | 350 |
| Absolute Delay | usec | - | 3.53 | - |
| Ultimate Rejection | dB | 50 | 58 | - |
| Temperature Coefficient of Frequency | ppm/°C ² | - | -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

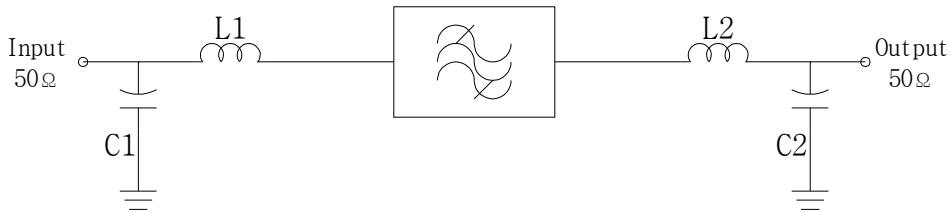
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| | | Rev. Date | 2008-11-12 | |
| | | Rev. | NW8030-CS01 | 2/5 |

SAW Bandpass Filter 230002B



4. Matching Schematic

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



$L1 = 120 \text{ nH}, L2 = 100 \text{ nH}$

$C1 = C2 = 51 \text{ pF}$


5. Marking Configuration

ITF¹⁾08A001²⁾

230002B³⁾

77.4⁴⁾-0.6M⁵⁾

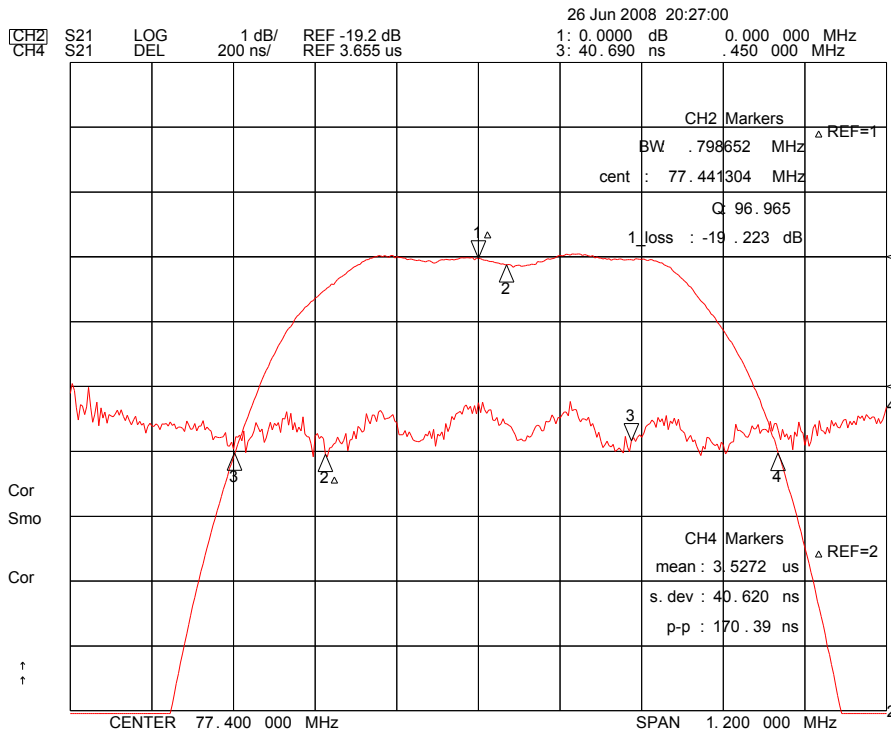
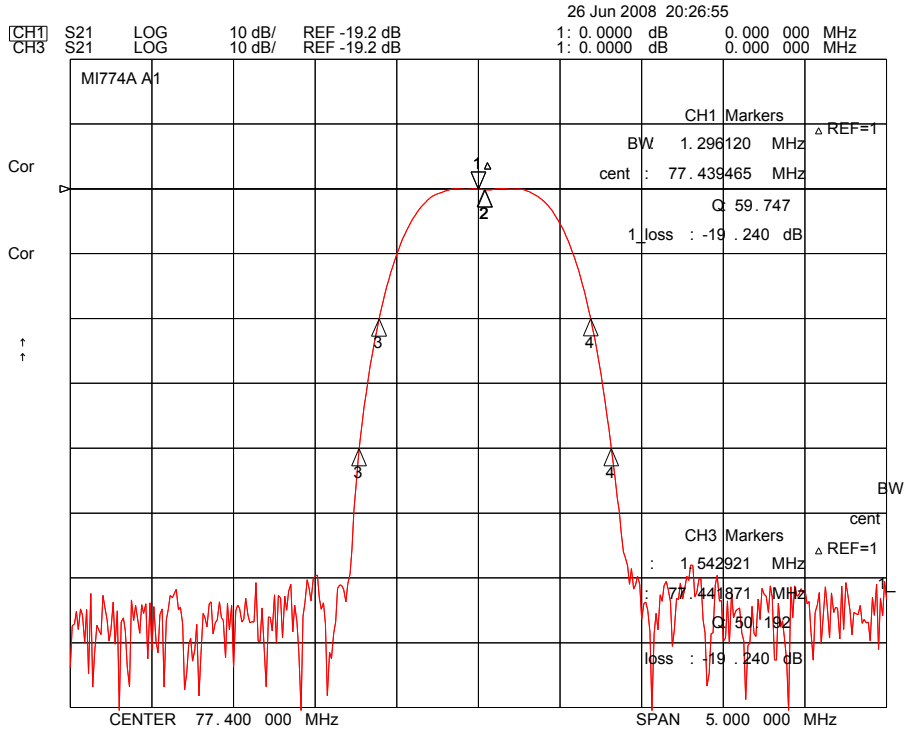
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

| | | | | |
|---|---|-----------|-------------|-----|
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| | | Rev. | NW8030-CS01 | 3/5 |

SAW Bandpass Filter 230002B



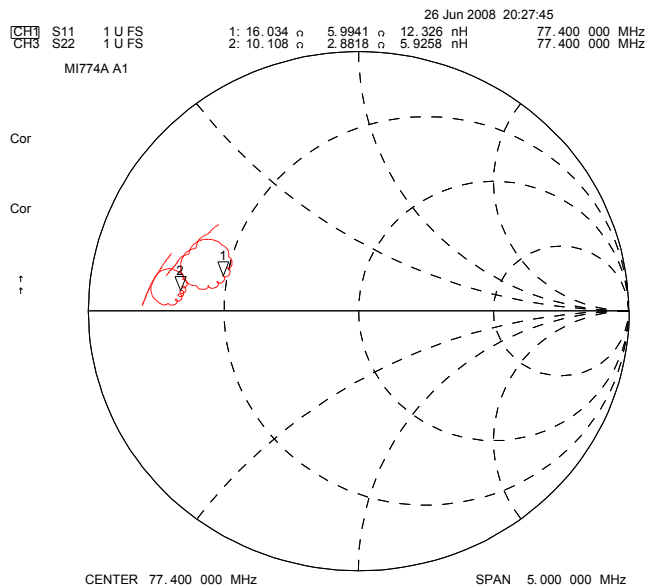
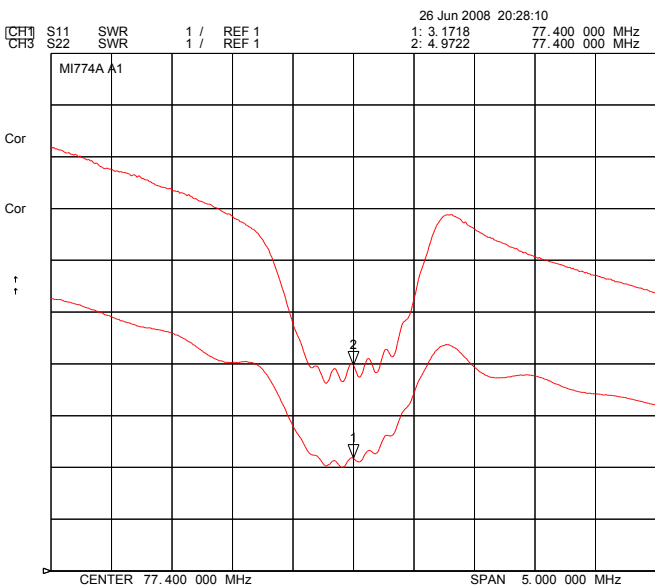
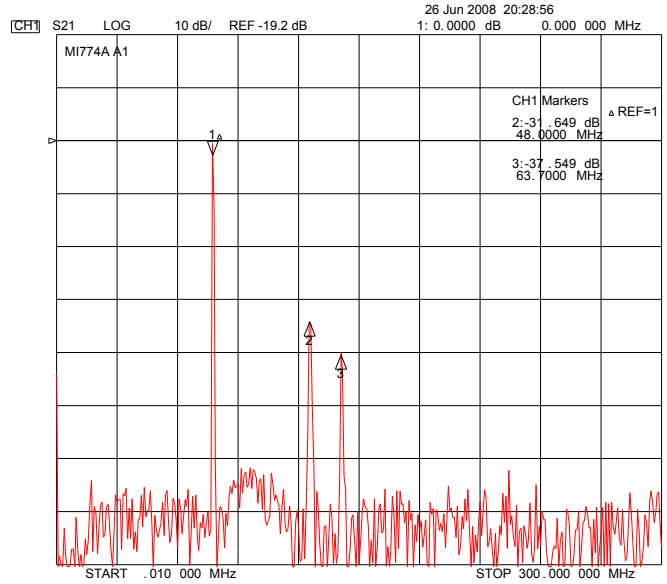
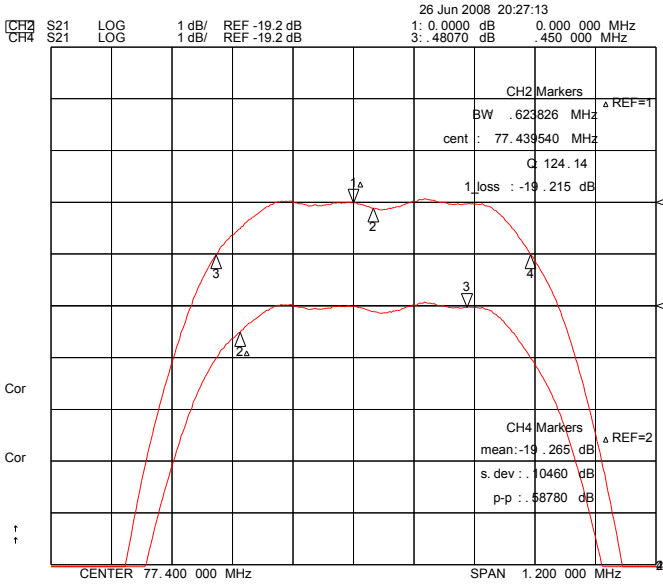
6. Typical Performance (at +25°C)



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| Rev. Date | 2008-11-12 | |
| Rev. | NW8030-CS01 | 4/5 |

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