

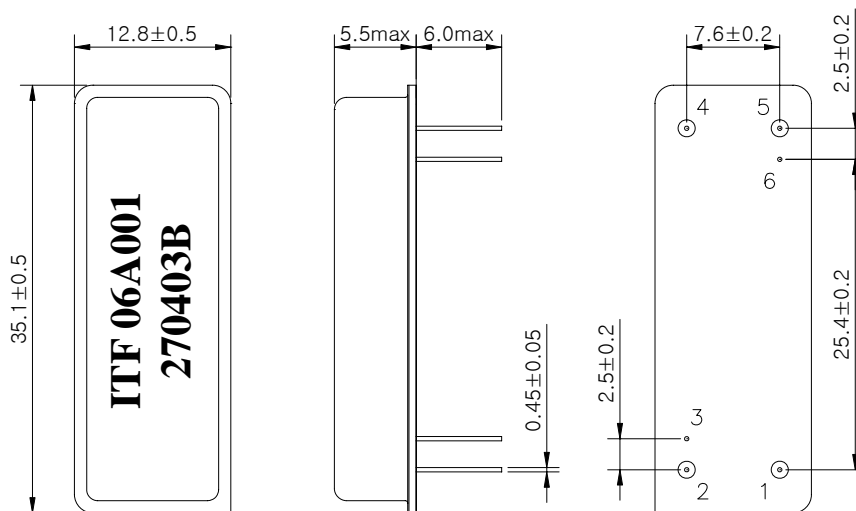
SAW Bandpass Filter 270403B



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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3. Specifications

Fo = 70.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| | | Minimum | Typical | Maximum |
|--|--------|---------|---------|---------|
| Center Frequency | MHz | 69.94 | 70.0 | 70.06 |
| Insertion Loss | dB | - | 22.5 | 25.0 |
| 1dB Bandwidth | MHz | - | 4.28 | - |
| 3dB Bandwidth | MHz | 4.4 | 4.58 | - |
| 40dB Bandwidth | MHz | - | 5.75 | 5.85 |
| Amplitude Ripple (Fo +/- 1.9 MHz) | dB | - | 0.5 | 1.0 |
| Group Delay Variation (Fo +/- 1.9 MHz) | nsec | - | 100 | 150 |
| Absolute Delay | usec | - | 3.76 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -23 | - |

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

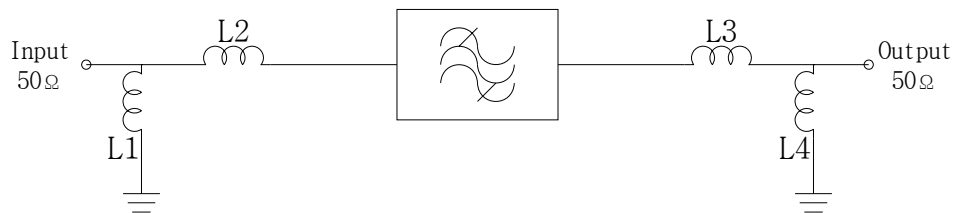
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4. Matching Schematic

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



L1 = 82nH, L2 = 56nH,

L3 = 56nH, L4 = 82nH

5. Marking Configuration

ITF¹⁾05A001²⁾

270403B³⁾

1) Manufacturer name

2) Lot Number

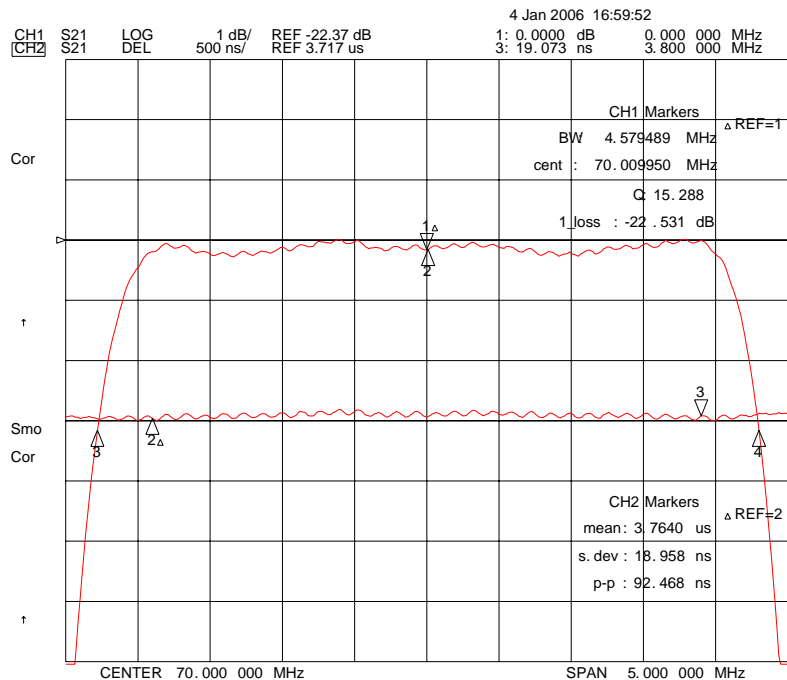
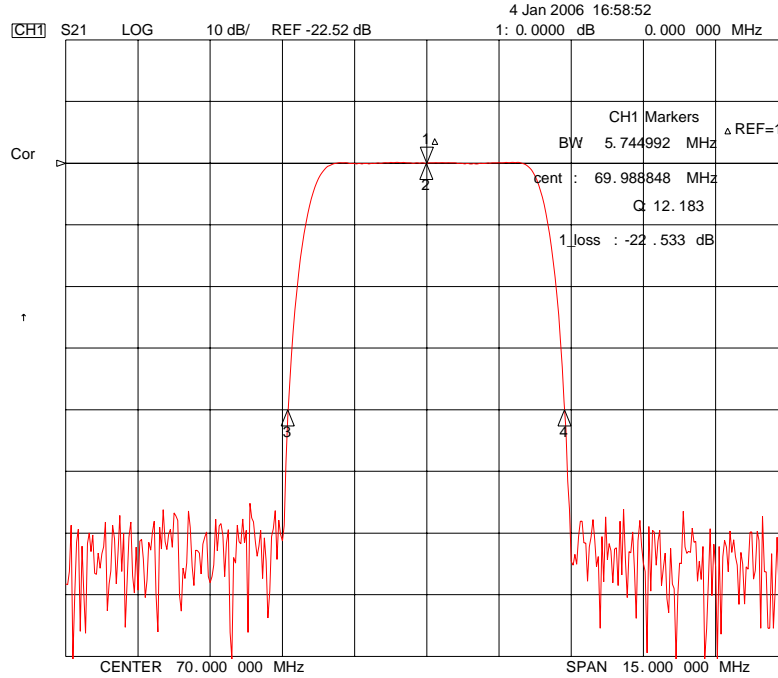
3) Part Number

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6. Typical Performance (at +25°C)



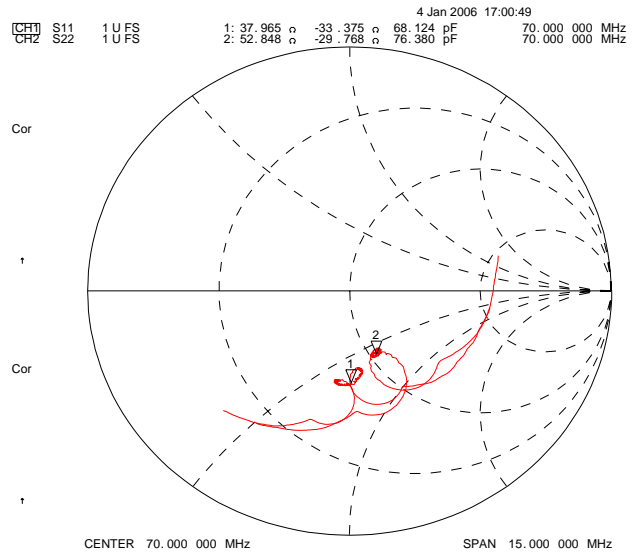
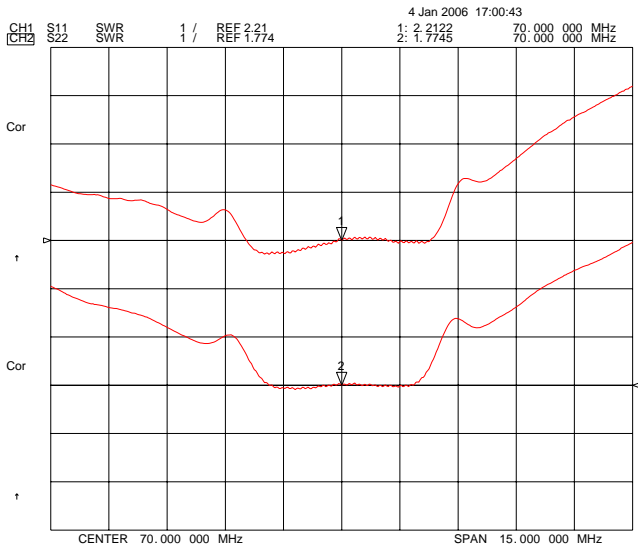
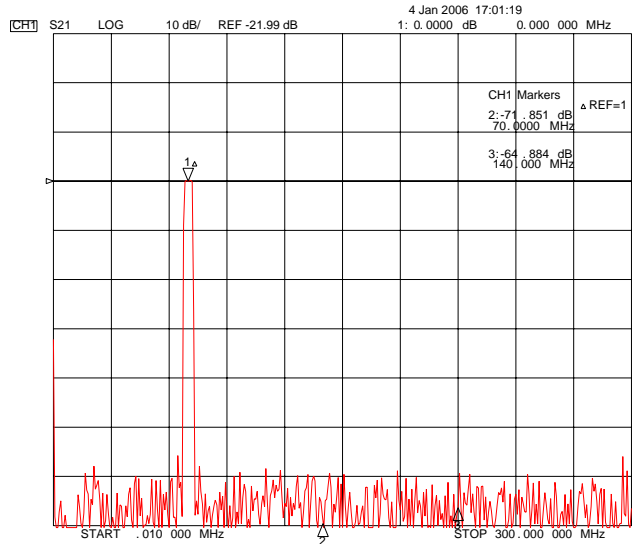
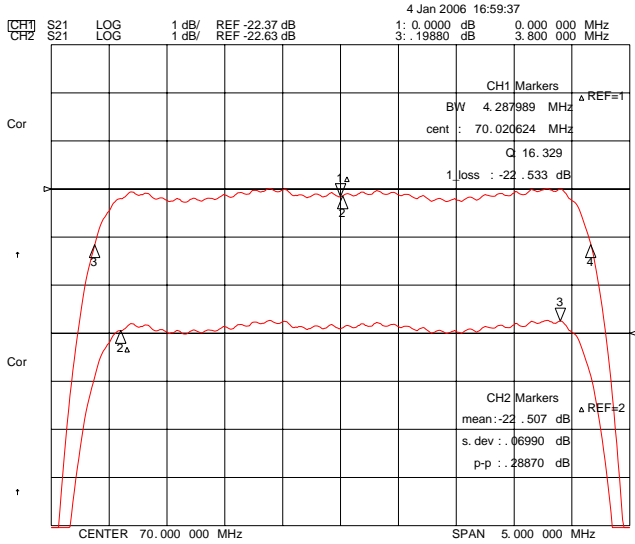
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