

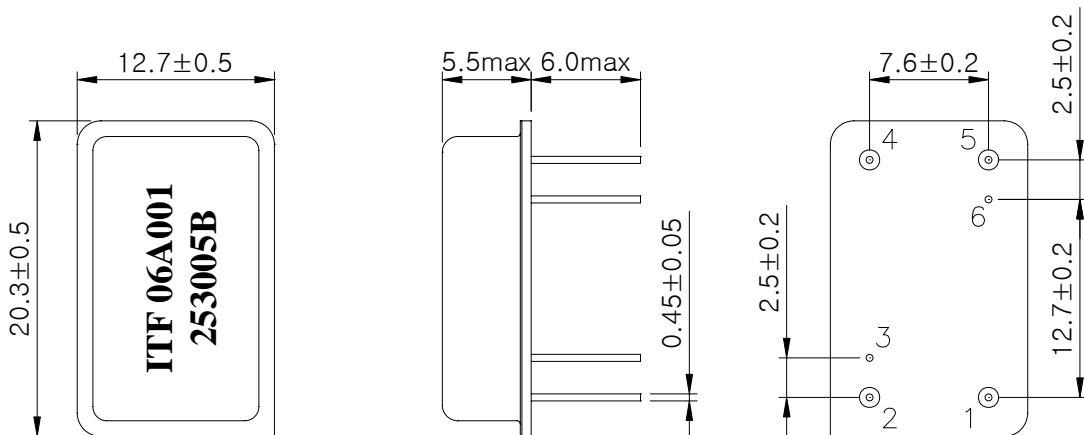
SAW Bandpass Filter 253005B



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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3. Specifications

Fo = 125.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| Operating Temperature Range : -30 °C ~ +85 °C | | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency | MHz | - | 125.0 | - |
| Insertion Loss | dB | - | 22.0 | 25.0 |
| 1dB Bandwidth | MHz | - | 29.15 | - |
| 3dB Bandwidth | MHz | 30 | 30.15 | - |
| 40dB Bandwidth | MHz | - | 34.2 | 35 |
| Amplitude Ripple (Fo +/- 13.5 MHz) | dB | - | 0.5 | 1.0 |
| Group Delay Variation (Fo +/- 13.5 MHz) | nsec | - | 18 | 30 |
| Absolute Delay | usec | - | 0.95 | 1 |
| Ultimate Rejection | dB | 50 | 55 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -80 | - |

| Room temperature : + 25 °C | | Minimum | Typical | Maximum |
|---|------|---------|---------|---------|
| Center Frequency | MHz | - | 125.0 | - |
| Amplitude Ripple (Fo +/- 14.0 MHz) | dB | - | 0.5 | 1.0 |
| Group Delay Variation (Fo +/- 14.0 MHz) | nsec | - | 18 | 30 |

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

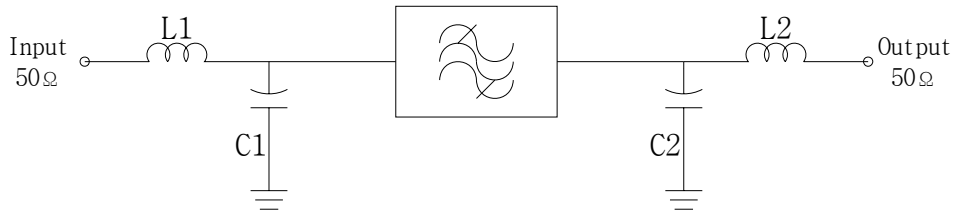
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4. Matching Schematic

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



L1 = 82nH, L2 = 82nH

C1 = 3pF, C2 = 3pF

5. Marking Configuration

ITF¹⁾ 06A001²⁾
253005B³⁾

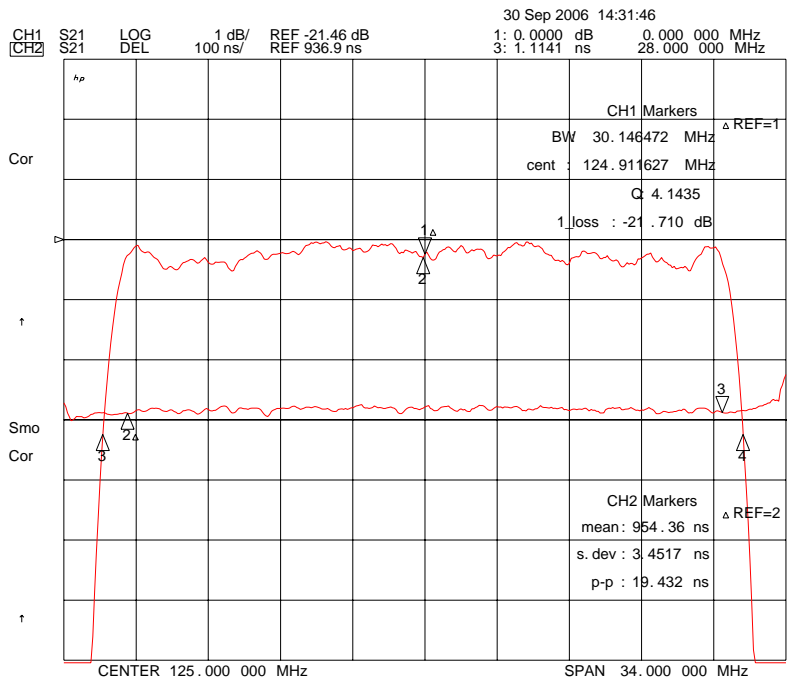
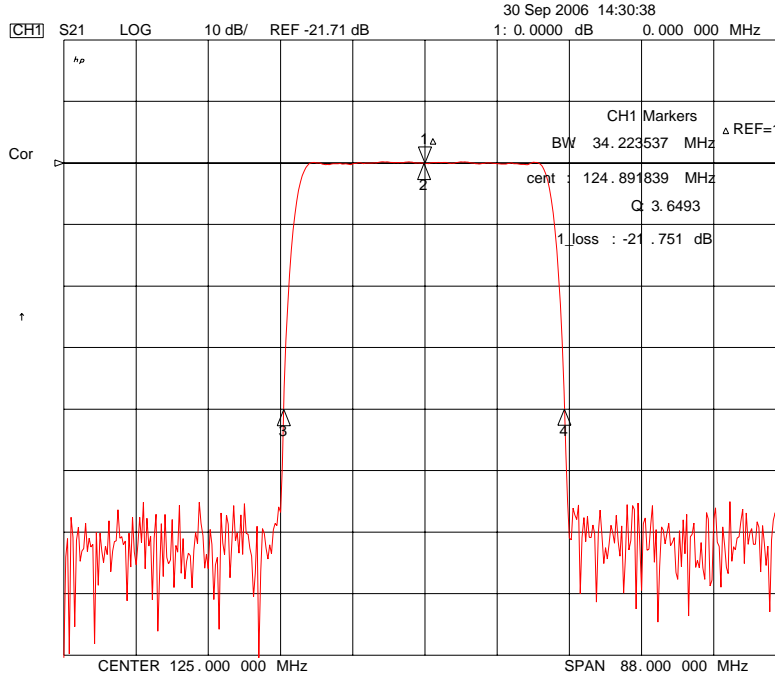
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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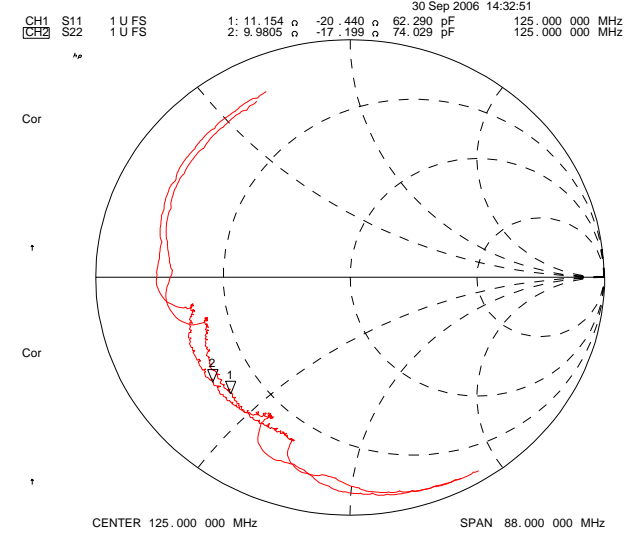
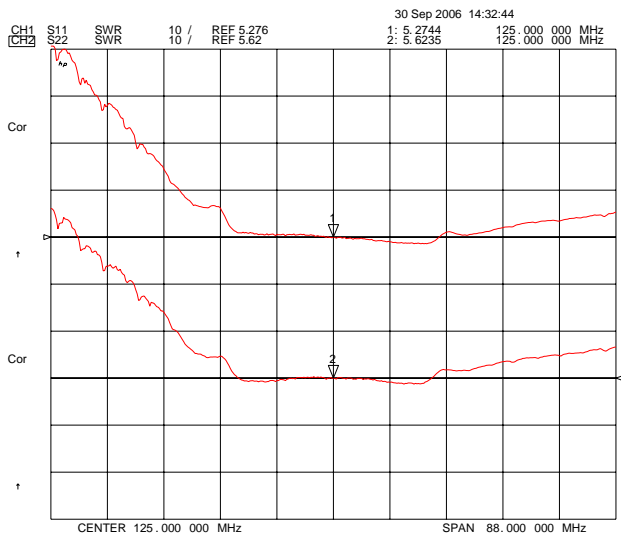
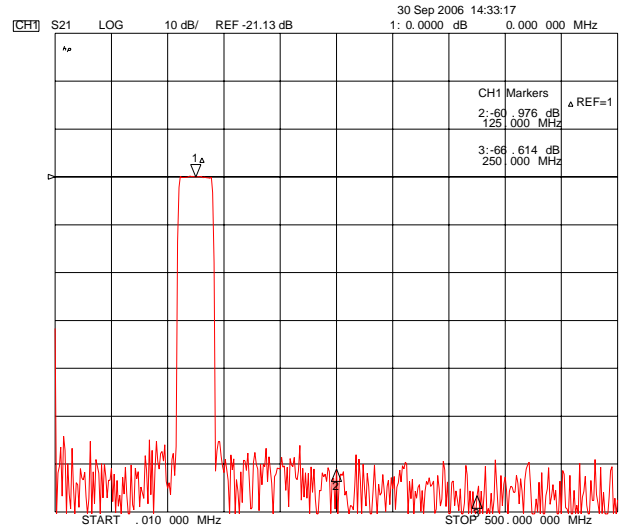
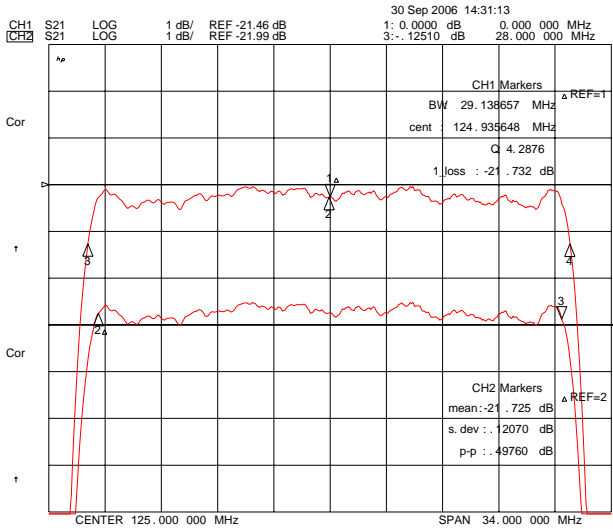
6. Typical Performance (at +25°C)



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