

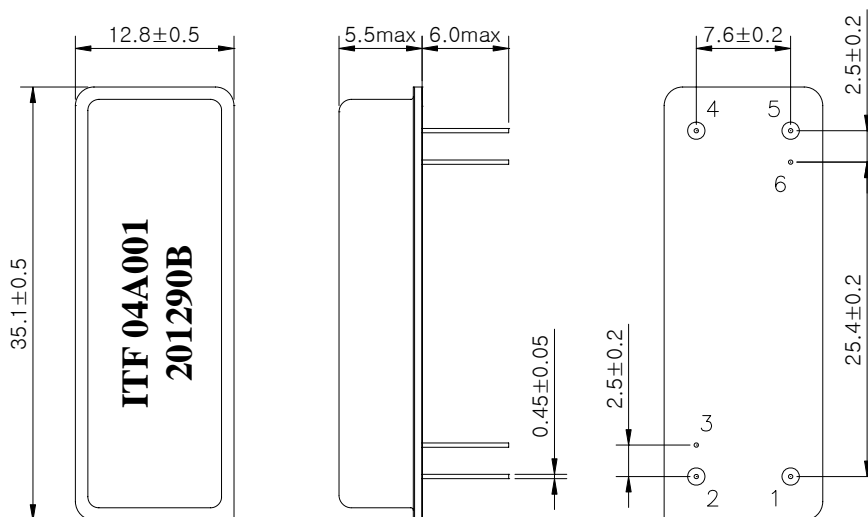
SAW Bandpass Filter 201290B



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 |
| 4 | Output |
| 2, 5 | Ground |
| Other | Case ground |

| | | | | |
|---|---|-----------|--------------|-----|
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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 | 139.92 | 140.0 | 140.08 |
| Insertion Loss | dB | - | 20.0 | 24.0 |
| 1dB Bandwidth | MHz | 1.2 | 1.25 | - |
| 3dB Bandwidth | MHz | 1.4 | 1.47 | - |
| 40dB Bandwidth | MHz | - | 2.17 | 2.3 |
| Amplitude Ripple (Fo +/- 0.55 MHz) | dB | - | 0.5 | 1.0 |
| Group Delay Variation (Fo +/- 0.55 MHz) | nsec | - | 240 | 300 |
| Absolute Delay | usec | - | 3.71 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| 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

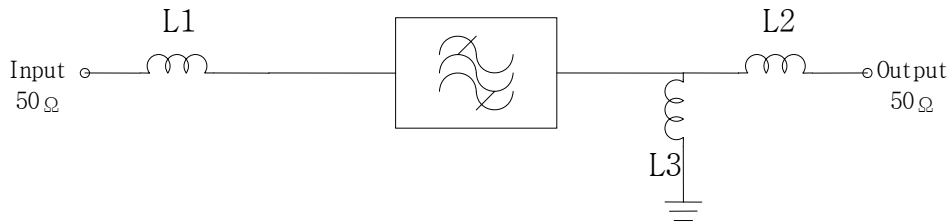
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|---|---|-----------|--------------|-----|
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4. Matching Schematic

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




$$L1 = L2 = L3 = 39 \text{ nH}$$

5. Marking Configuration

ITF¹⁾04A001²⁾
201290B³⁾

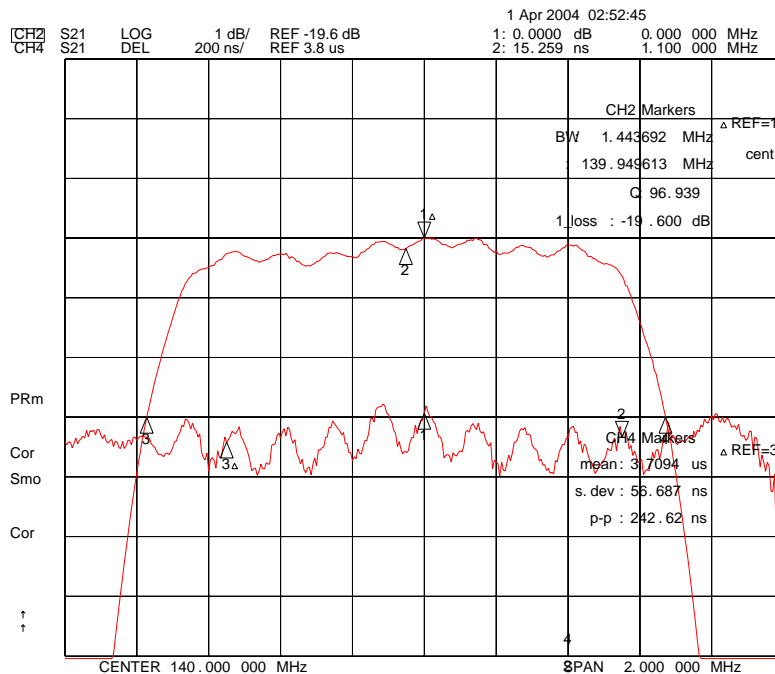
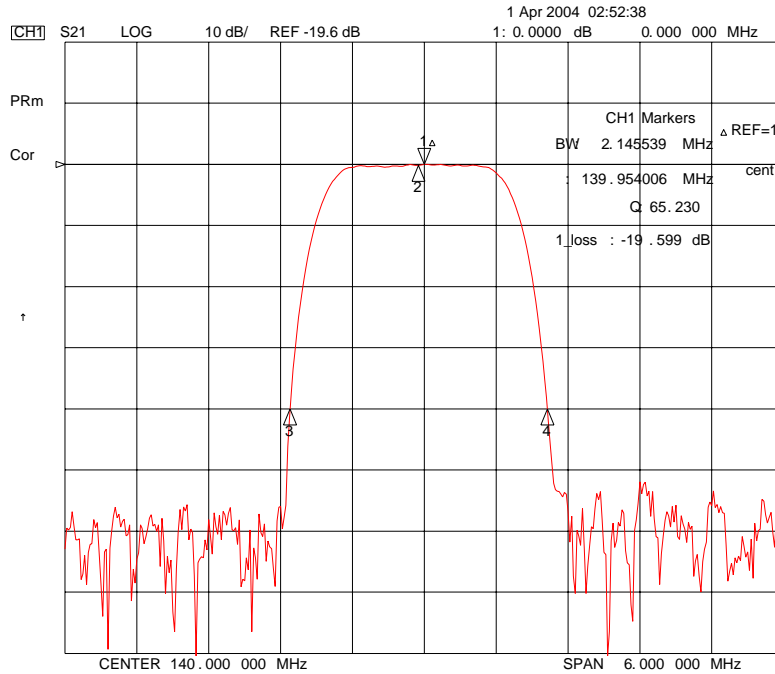
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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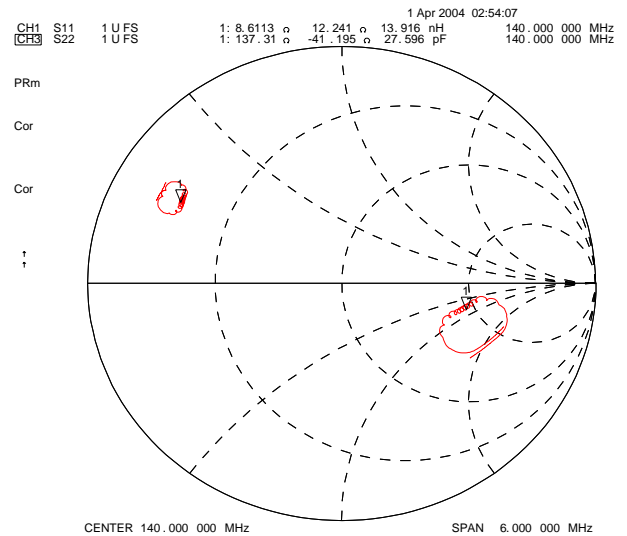
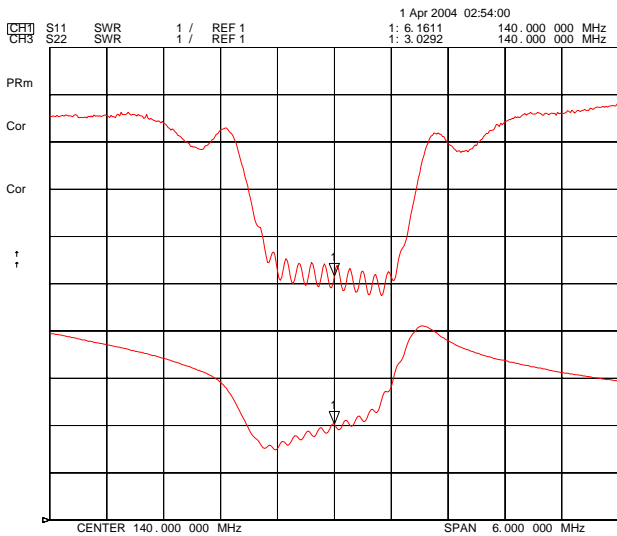
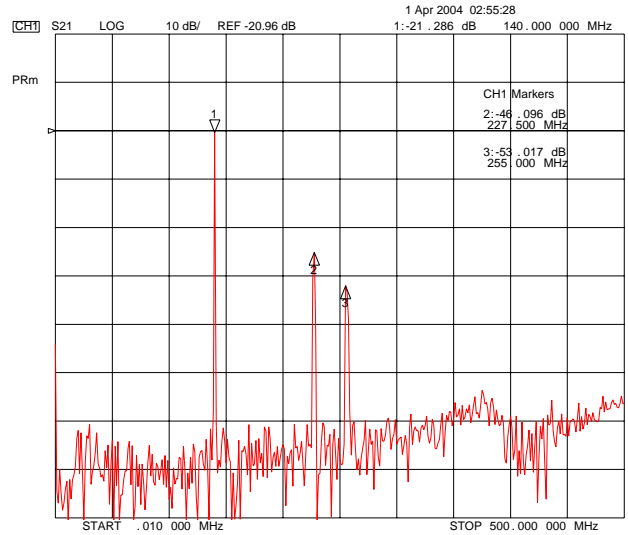
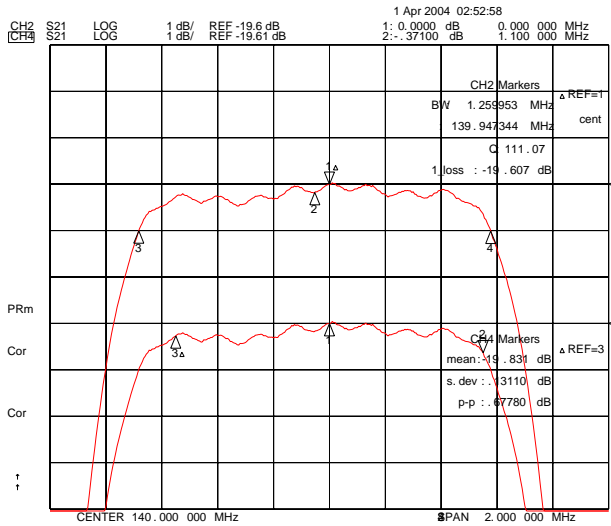


6. Typical Performance (at +25°C)



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