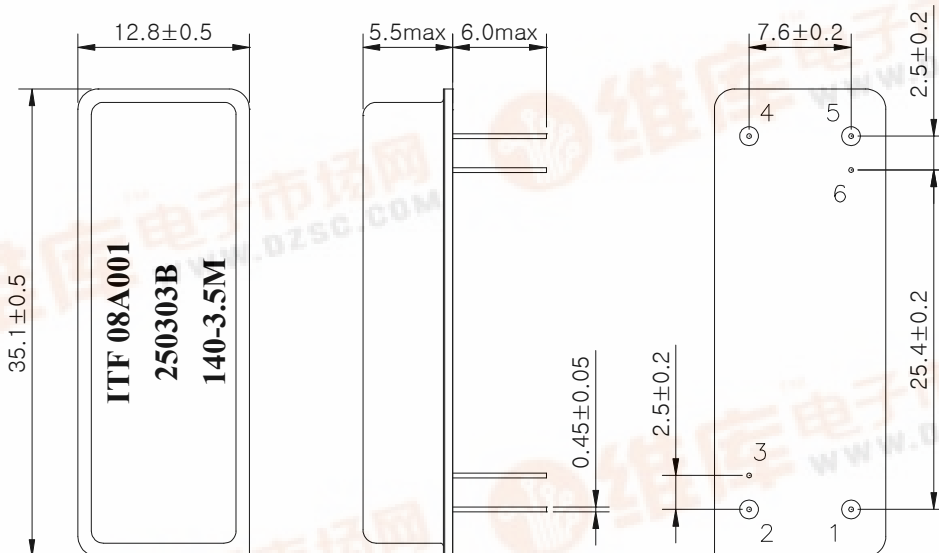


SAW Bandpass Filter 250303B

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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| | | Rev. Date | 2008-07-17 | |
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SAW Bandpass Filter 250303B

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 | - | 140.0 | - |
| Insertion Loss | dB | - | 22.0 | 24.0 |
| 2dB Bandwidth | MHz | - | 3.52 | 3.6 |
| 3dB Bandwidth | MHz | - | 3.62 | - |
| 25dB Bandwidth | MHz | - | 4.28 | 4.4 |
| 40dB Bandwidth | MHz | - | 4.48 | - |
| Amplitude Ripple (Fo +/- 1.55 MHz) | dB | - | 0.4 | 1.0 |
| Group Delay Variation (Fo +/- 1.55 MHz) | nsec | - | 140 | 270 |
| Absolute Delay | usec | - | 3.18 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| Temperature Coefficient of Frequency | ppm/°C ² | - | -0.03 | - |

Notes :

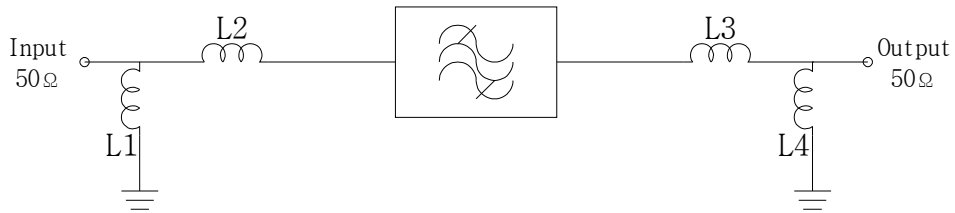
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

| | | | | |
|---|---|-----------|-------------|-----|
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SAW Bandpass Filter 250303B

4. Matching Schematic

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



$$L1 = L4 = 33 \text{ nH}$$

$$L2 = L3 = 47 \text{ nH}$$


5. Marking Configuration

ITF¹⁾08A001²⁾

250303B³⁾

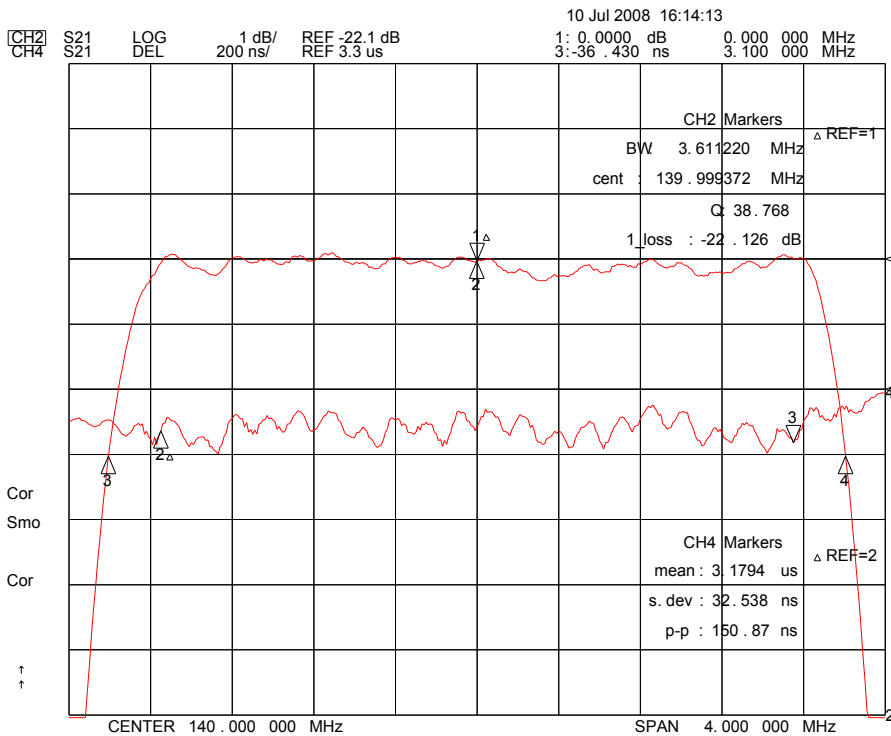
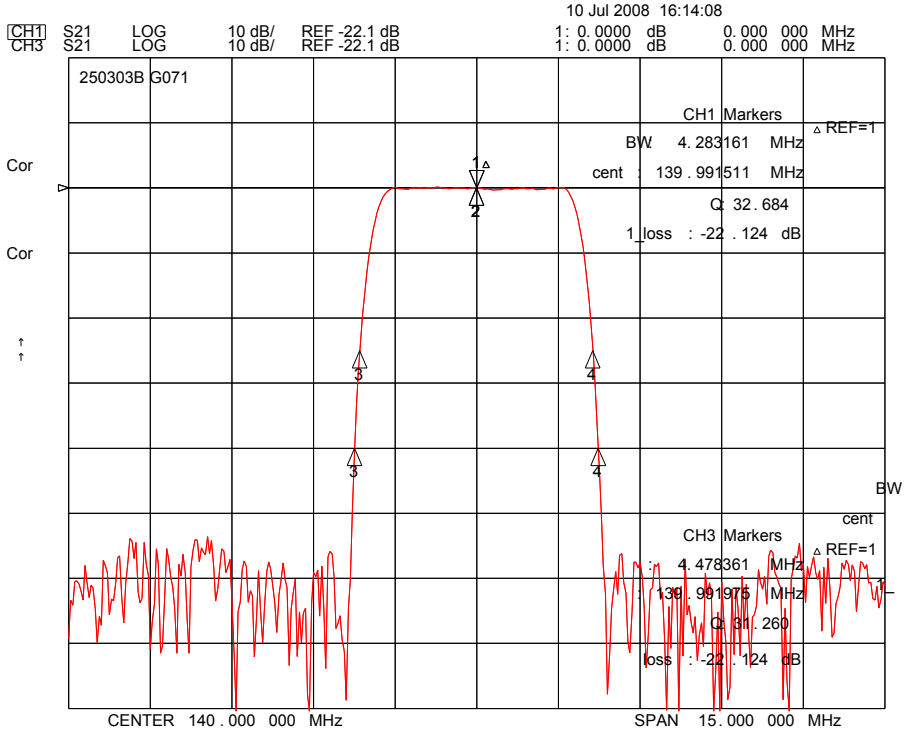
140⁴⁾-3.5M⁵⁾

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

| | | | | |
|---|---|-----------|-------------|-----|
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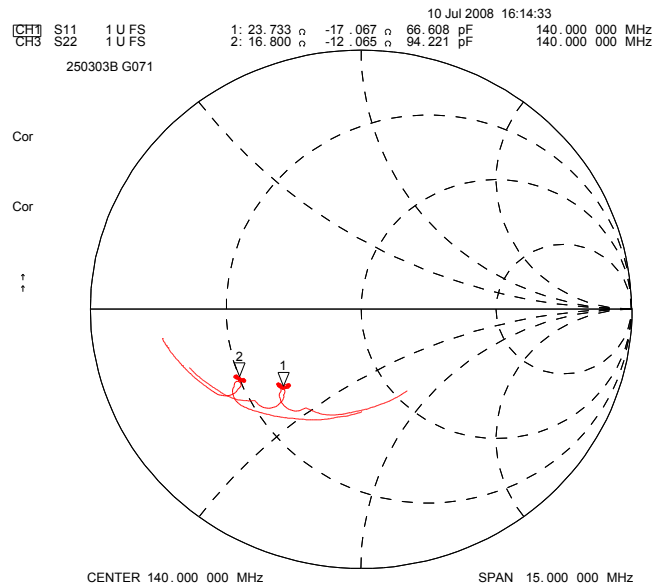
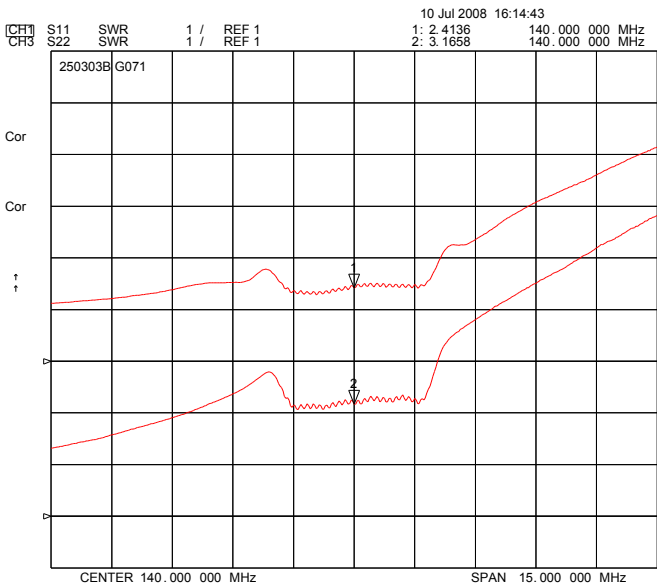
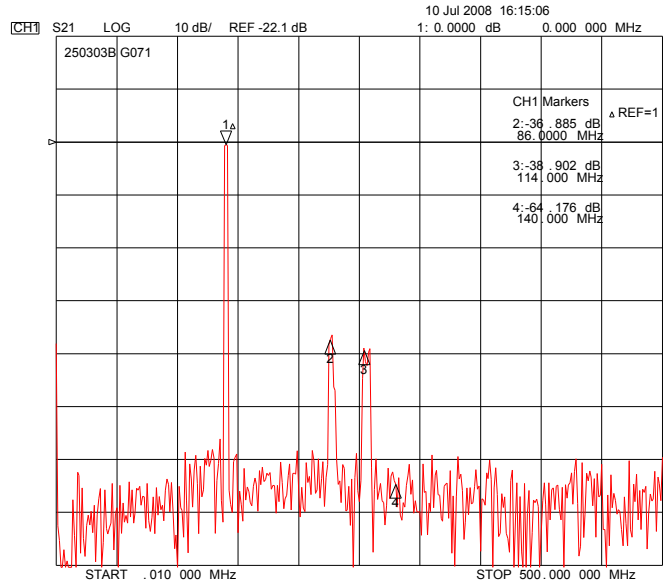
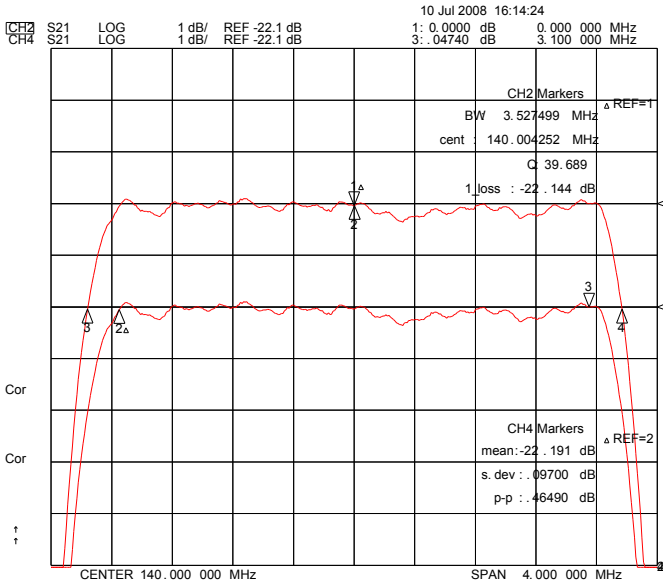
6. Typical Performance (at +25°C)



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