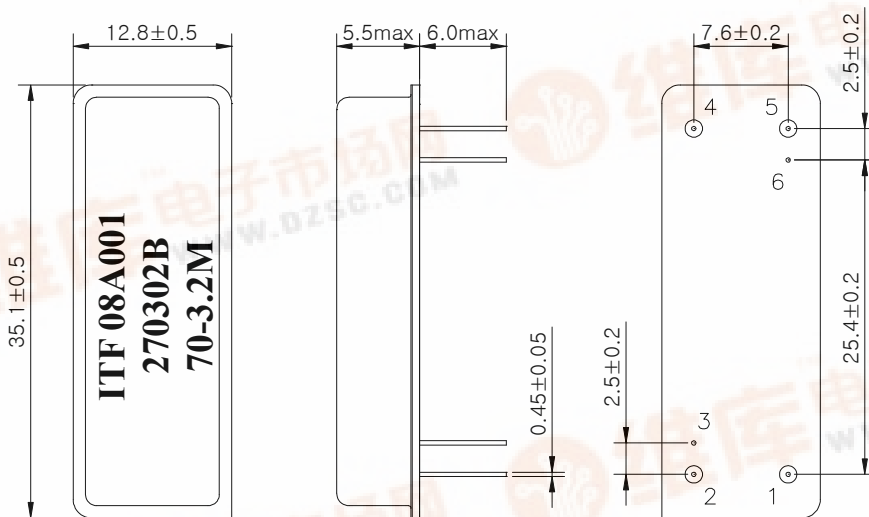


SAW Bandpass Filter 270302B

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 | 2008-08-29 |
| | | | Rev. | NM8032-CS01 |

SAW Bandpass Filter 270302B

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 | - | 70.0 | - |
| Insertion Loss | dB | - | 22.0 | 23.0 |
| 2dB Bandwidth | MHz | - | 3.27 | 3.30 |
| 25dB Bandwidth | MHz | - | 4.02 | 4.10 |
| 40dB Bandwidth | MHz | - | 4.2 | - |
| Amplitude Ripple (fo±1.43 MHz) | dB | - | 0.45 | 1.0 |
| Group Delay Variation (fo±1.43 MHz) | nsec | - | 160 | 220 |
| Absolute Delay | usec | - | 4.36 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -18 | - |

Notes :

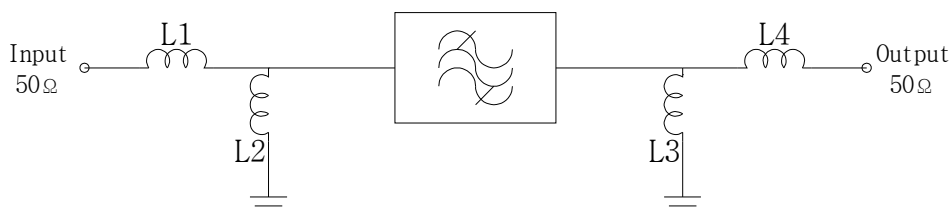
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

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

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



L1 = 56nH, L2 = 56nH

L3 = 62nH, L4 = 56nH


5. Marking Configuration

ITF¹⁾ 08A001²⁾

270302B³⁾

70⁴⁾ -3.2M⁵⁾

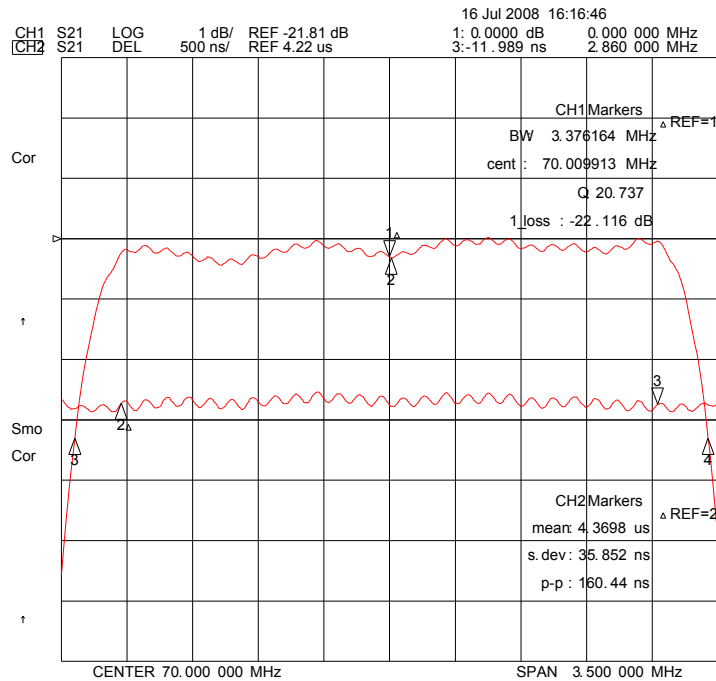
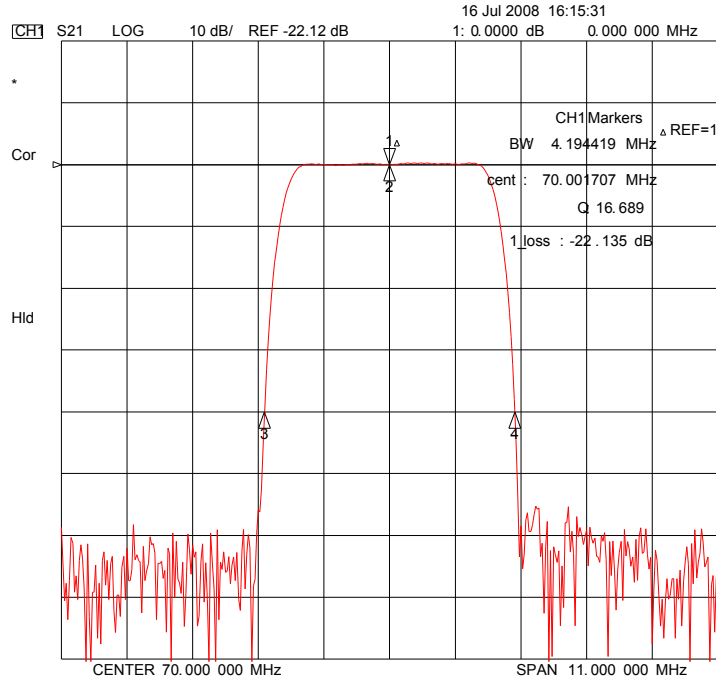
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 2dB-Bandwidth

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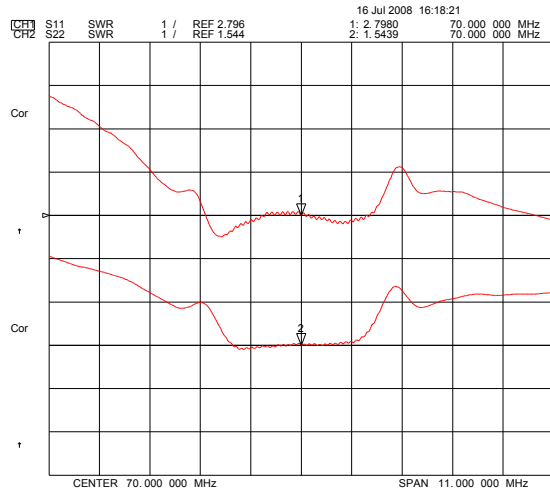
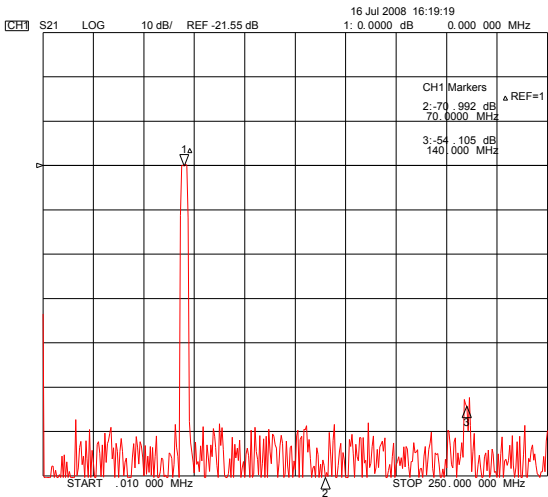
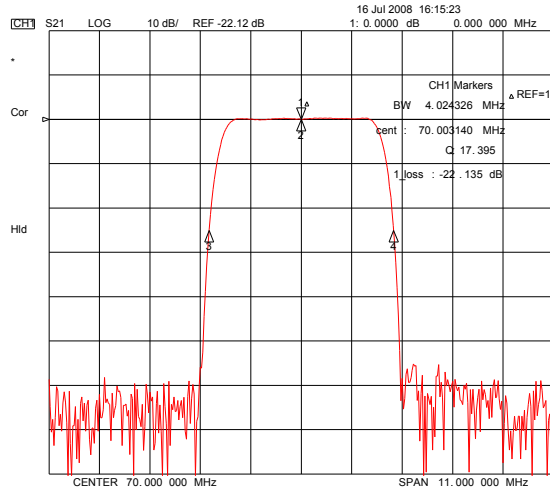
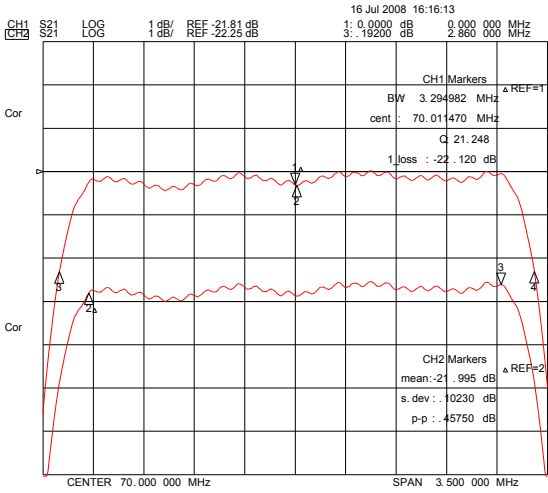


6. Typical Performance (at +25°C)



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