

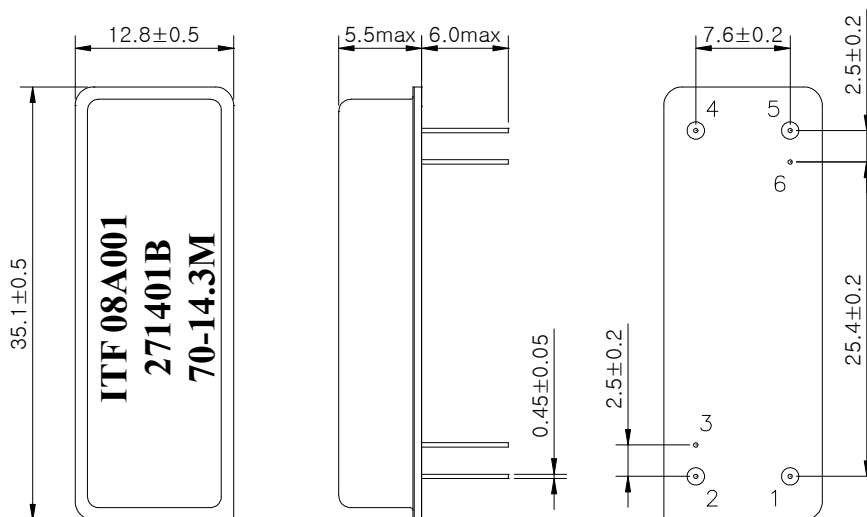
SAW Bandpass Filter 271401B



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 | - | 70.0 | - |
| Insertion Loss | dB | - | 24.1 | 26.5 |
| 1dB Bandwidth | MHz | 14.2 | 14.31 | - |
| 3dB Bandwidth | MHz | - | 14.49 | - |
| 40dB Bandwidth | MHz | - | 15.32 | 15.5 |
| Amplitude Ripple (fo±6.9 MHz) | dB | - | 0.72 | 1.0 |
| Group Delay Variation (fo±6.9 MHz) | nsec | - | 55 | 100 |
| Absolute Delay | usec | - | 3.35 | - |
| Ultimate Rejection | dB | 50 | 58 | - |
| Relative Attenuation | | | | |
| Fo ± 7.7MHz | dB | 30 | 45 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -72 | - |

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

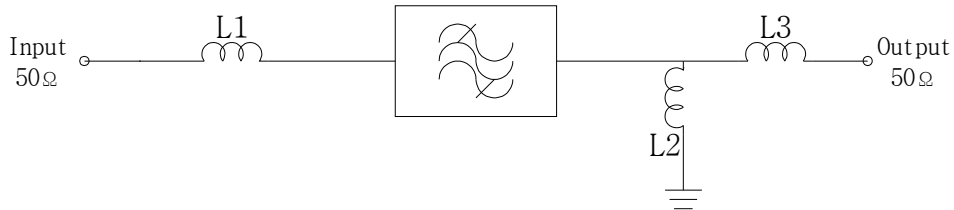
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4. Matching Schematic

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



L1 = 39nH, L2 = 180nH

L3 = 39nH


5. Marking Configuration

ITF¹⁾ 08A001²⁾

271401B³⁾

70⁴⁾ -14.3M⁵⁾

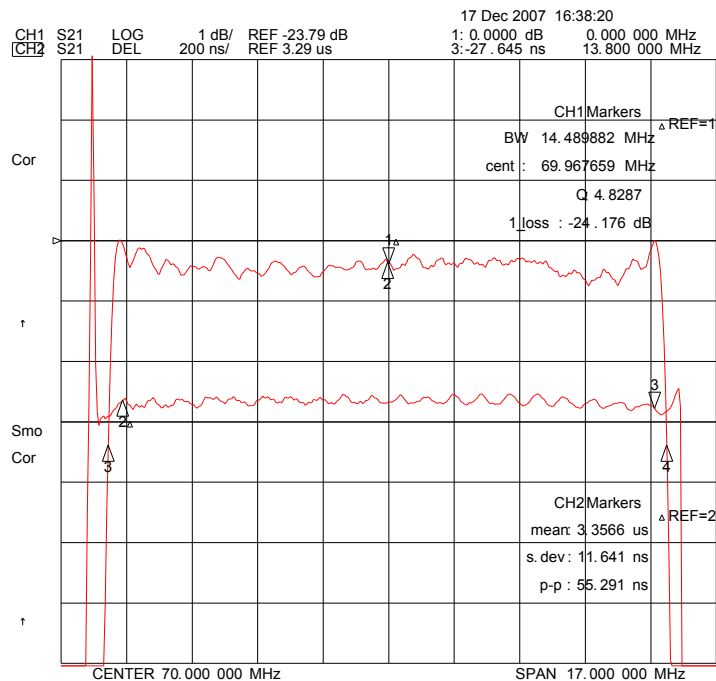
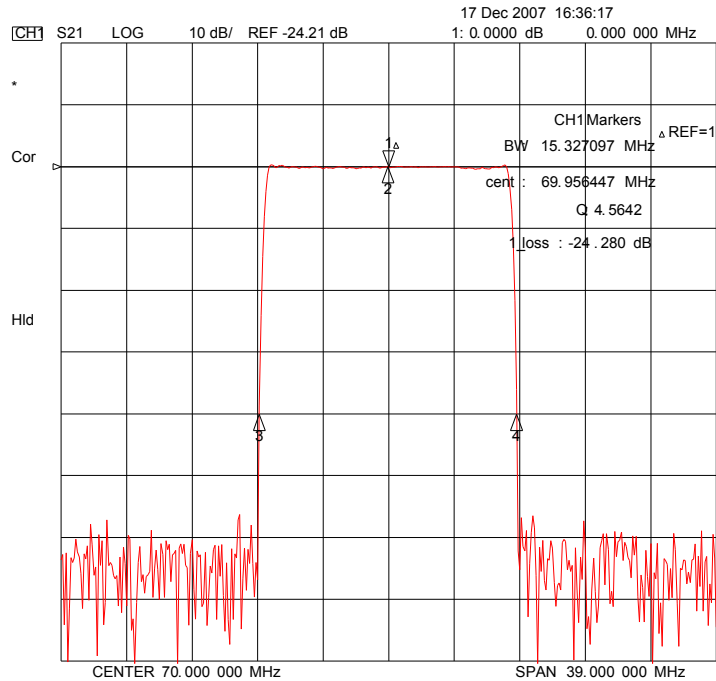
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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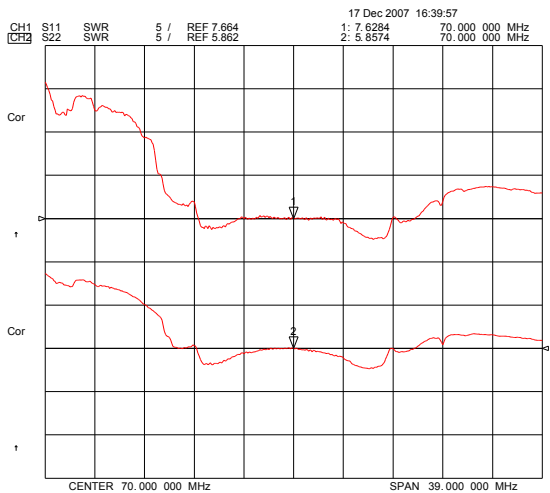
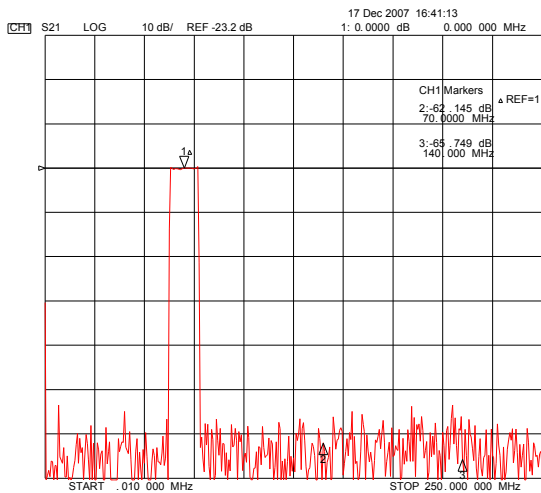
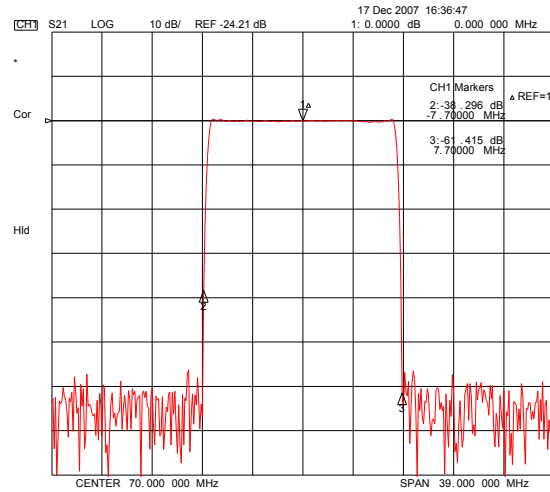
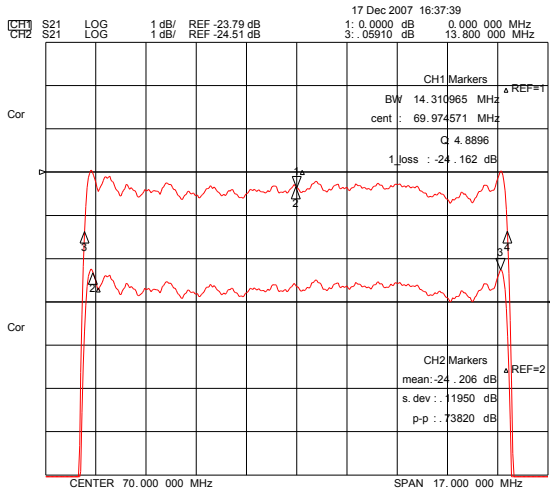
6. Typical Performance (at +25°C)



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