

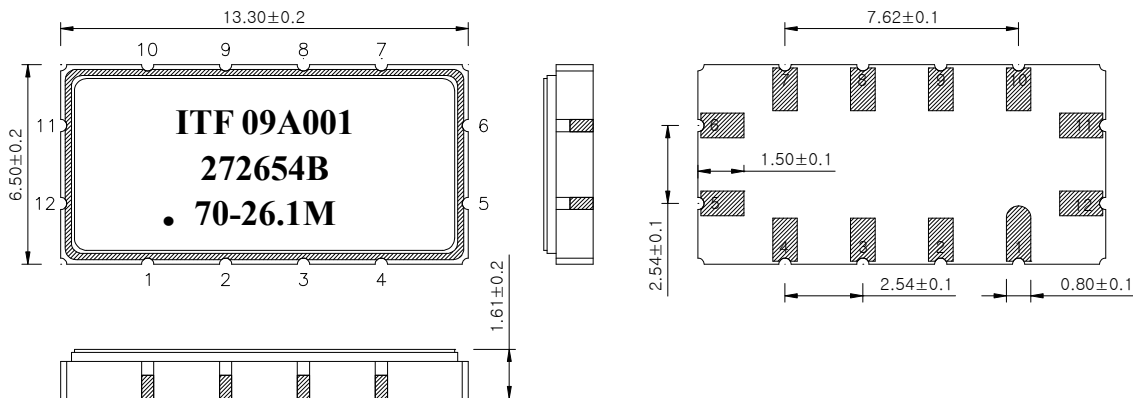
SAW Bandpass Filter 272654B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- SMD Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : S1365


Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

| Pin Configuration | |
|-------------------|-------------|
| 11 | Input |
| 5 | Output |
| 6, 12 | Ground |
| Other | Case ground |

| | | | | |
|---|---|-----------|-------------|-----|
|  | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | 272654B | |
| | | Rev. Date | 2009-04-15 | |
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3. Specifications

Fo = 70.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| Room temperature range : +25℃ | | Minimum | Typical | Maximum |
|--|--------|---------|---------|---------|
| Center Frequency (Fc) | MHz | - | 70.0 | - |
| Insertion Loss | dB | - | 29.5 | 31.0 |
| 1dB Bandwidth | MHz | - | 26.13 | - |
| 3dB Bandwidth | MHz | 26.4 | 26.5 | - |
| 40dB Bandwidth | MHz | - | 28.35 | 28.5 |
| Amplitude Ripple (Fo +/- 12.65 MHz) | dB | - | 0.55 | 1.0 |
| Group Delay Variation (Fo +/- 12.65 MHz) | nsec | - | 35 | 80 |
| Absolute Delay | usec | - | 1.66 | - |
| Ultimate Rejection | dB | 40 | 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

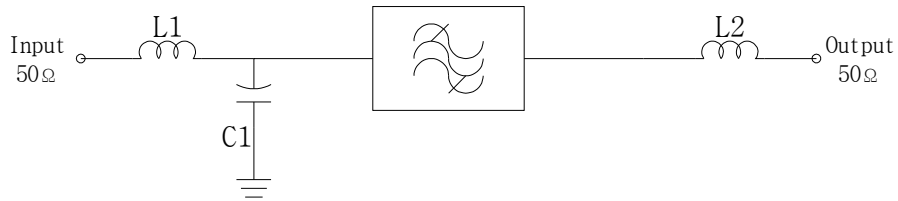
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4. Matching Schematic

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



L1 = 220nH, L2 = 180nH

C1 = 10pF

5. Marking Configuration

ITF¹⁾ 08A001²⁾

272654B³⁾

70⁴⁾ -26.1⁵⁾

●⁶⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center frequency

5) 1dB-Bandwidth

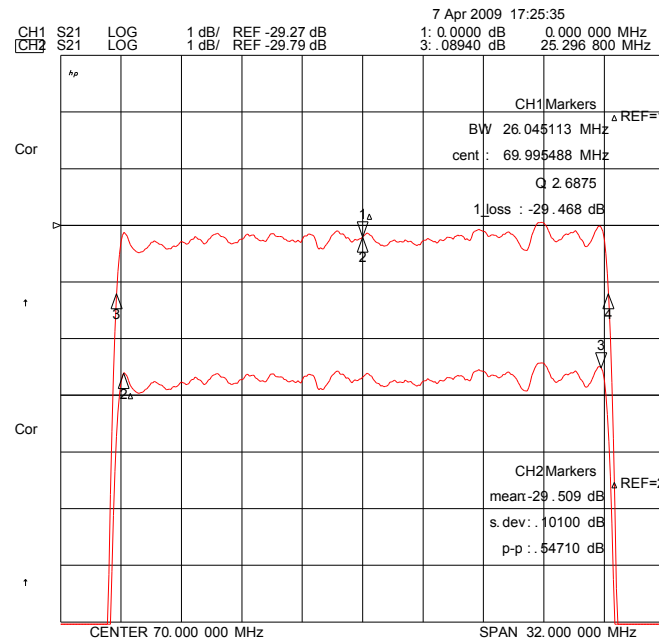
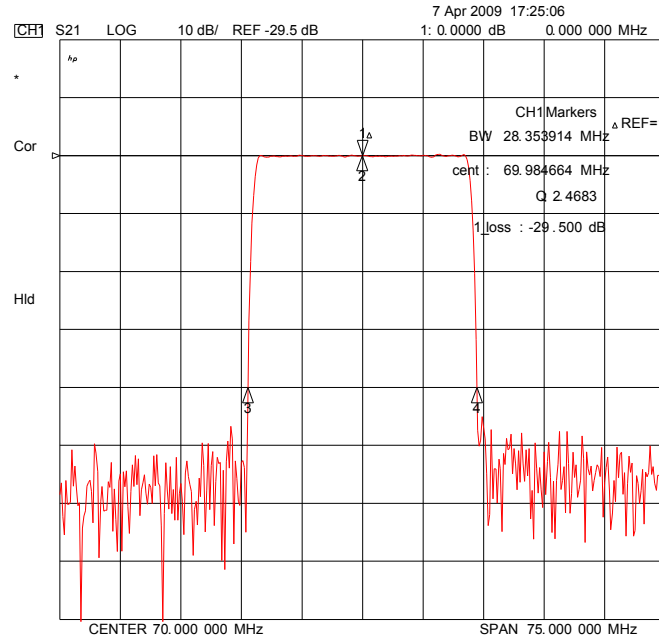
6) Pad No.1 Index


| | | | | |
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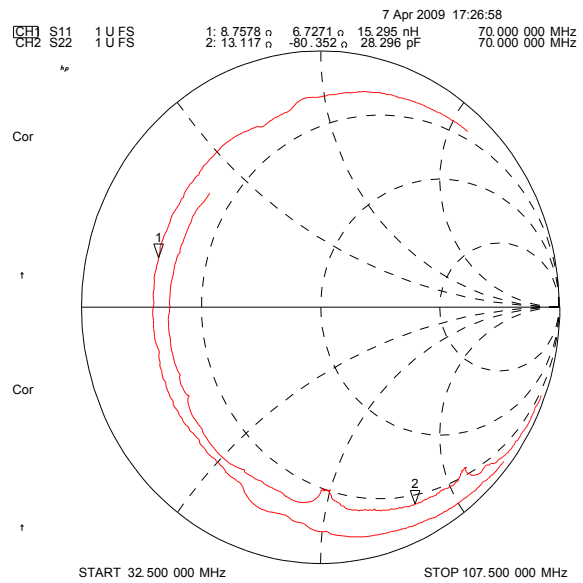
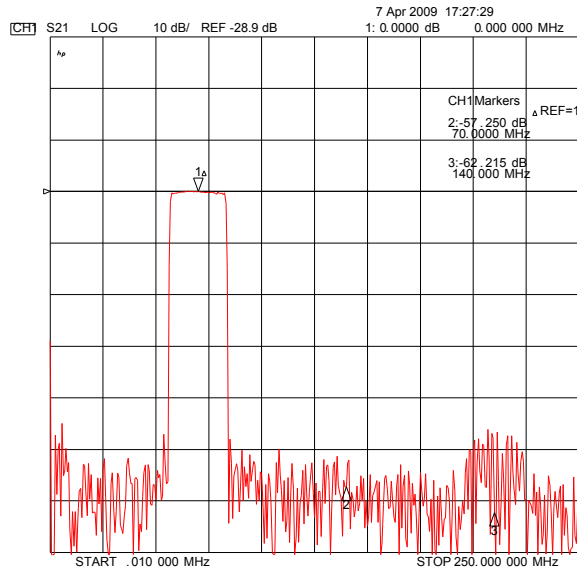
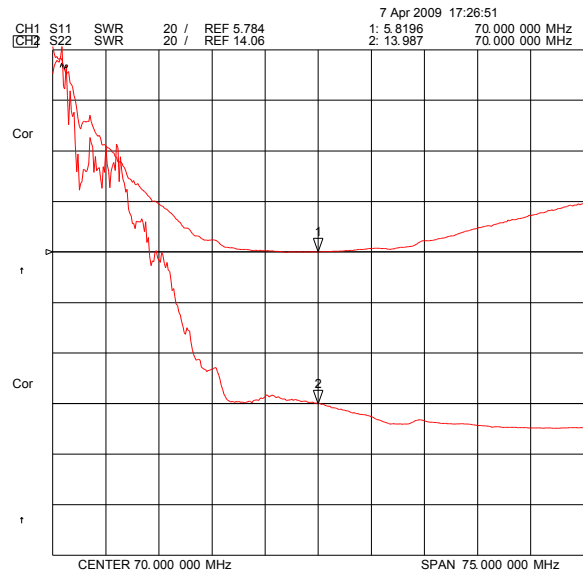
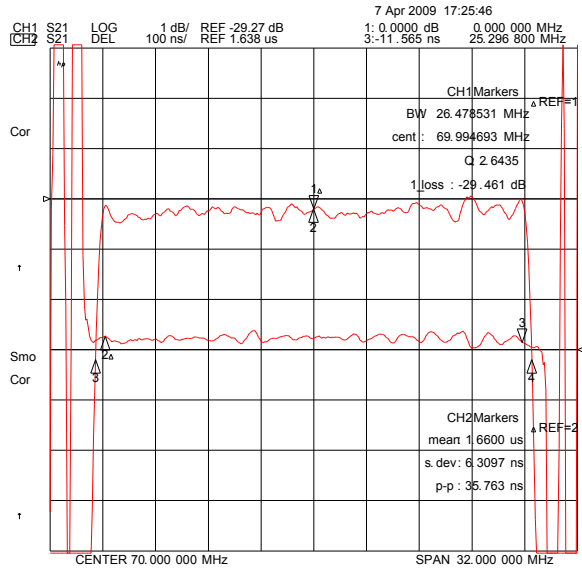


6. Typical Performance(at +25°C)



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