

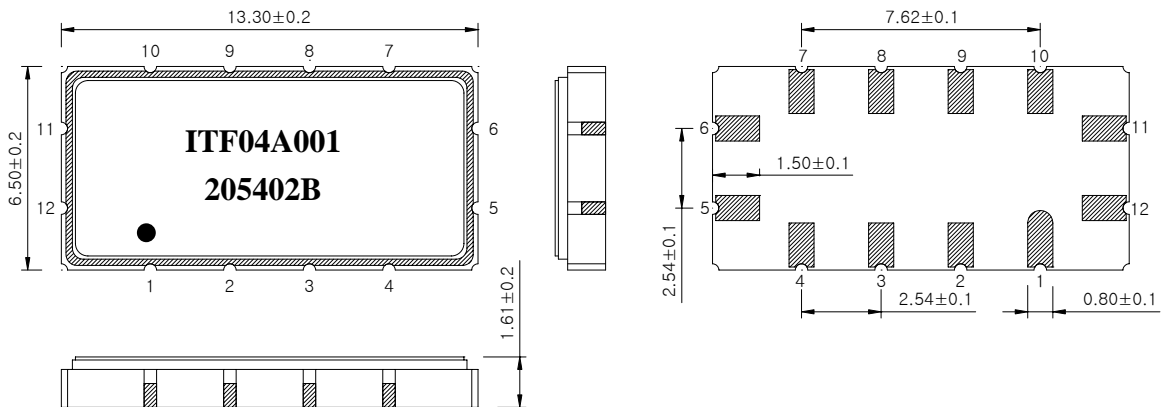
SAW Bandpass Filter 205402B



1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

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



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 102-901, Bucheon Technopark 364,
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Part No. 205402B

Rev. Date 2004-05-04

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3. Specifications

Fo = 82.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| | | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency | MHz | 82.3 | 82.5 | 82.7 |
| Insertion Loss | dB | - | 13.7 | 15.0 |
| 1dB Bandwidth | MHz | 25.5 | 26.0 | - |
| 3dB Bandwidth | MHz | 26.4 | 26.9 | - |
| 40dB Bandwidth | MHz | - | 30.4 | 31.0 |
| Amplitude Ripple (Fo +/- 12.5 MHz) | dB | - | 0.5 | 1.0 |
| Group Delay Variation (Fo +/- 12.5 MHz) | nsec | - | 30 | 100 |
| Absolute Delay | usec | - | 1.1 | - |
| Ultimate Rejection | dB | 40 | 45 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -82 | - |

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

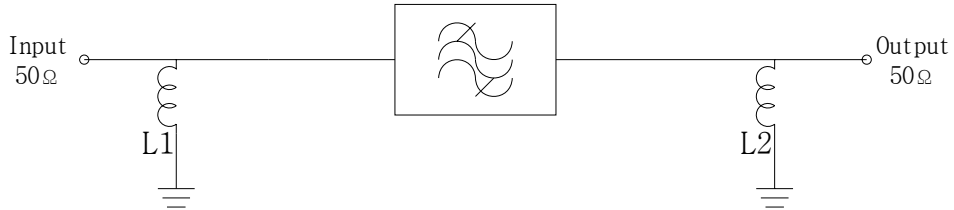
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4. Matching Schematic

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



L1 = 56 nH,

L2 = 68 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾

205402B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

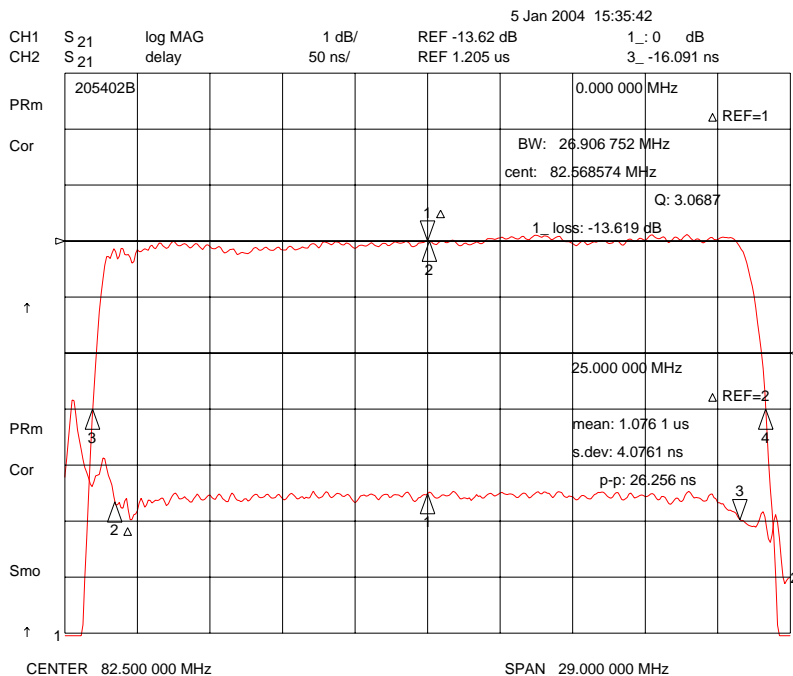
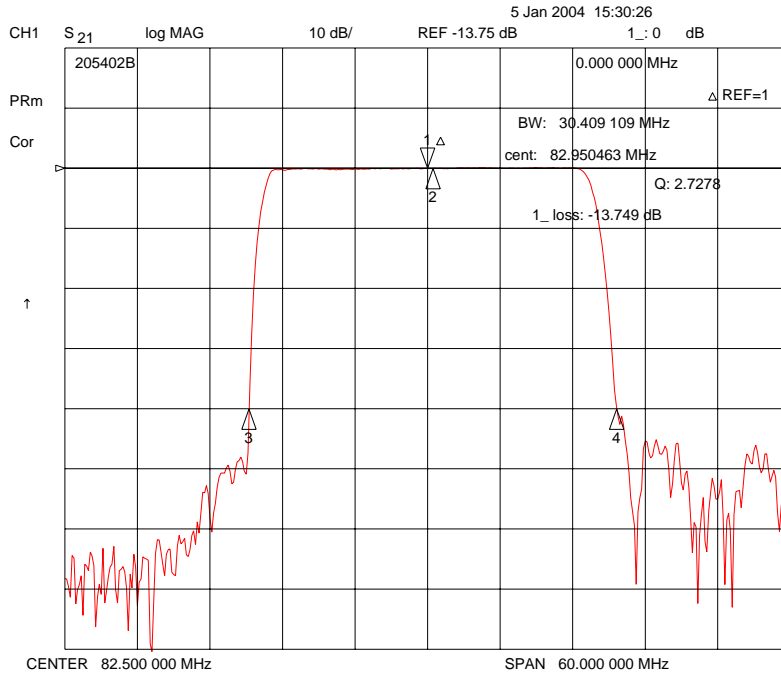
4) Pad Number 1 Index

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



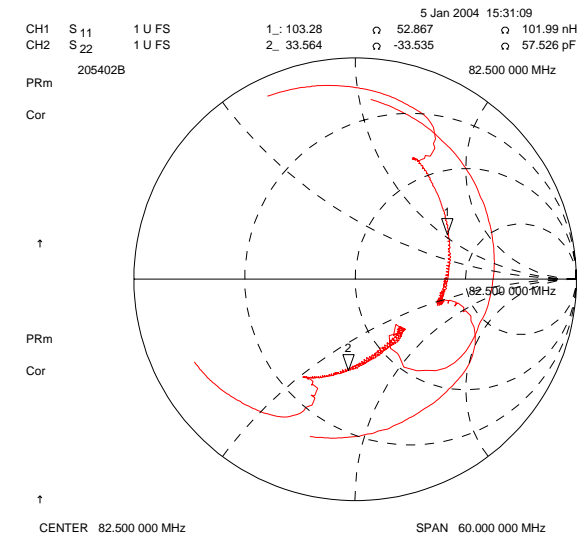
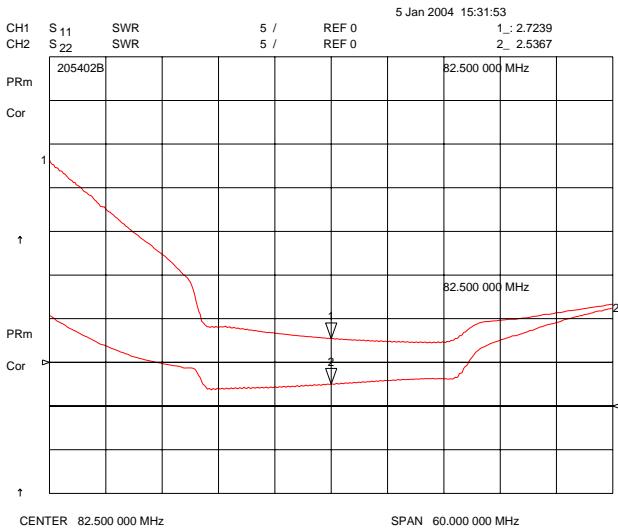
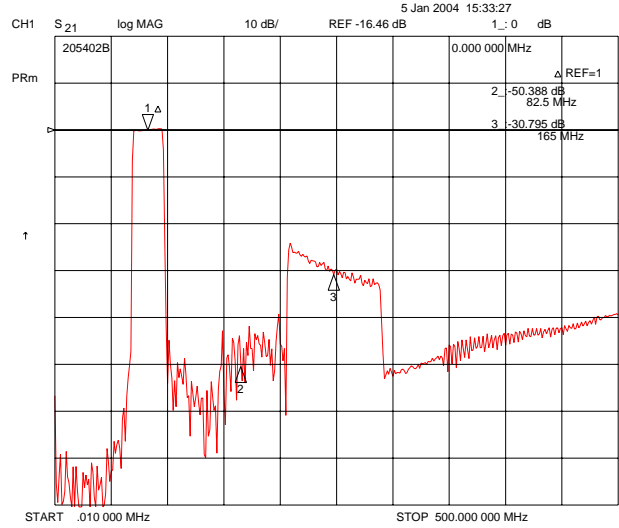
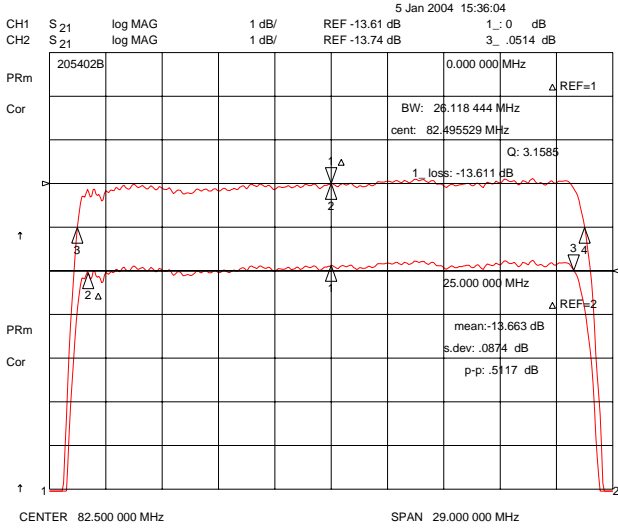
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