

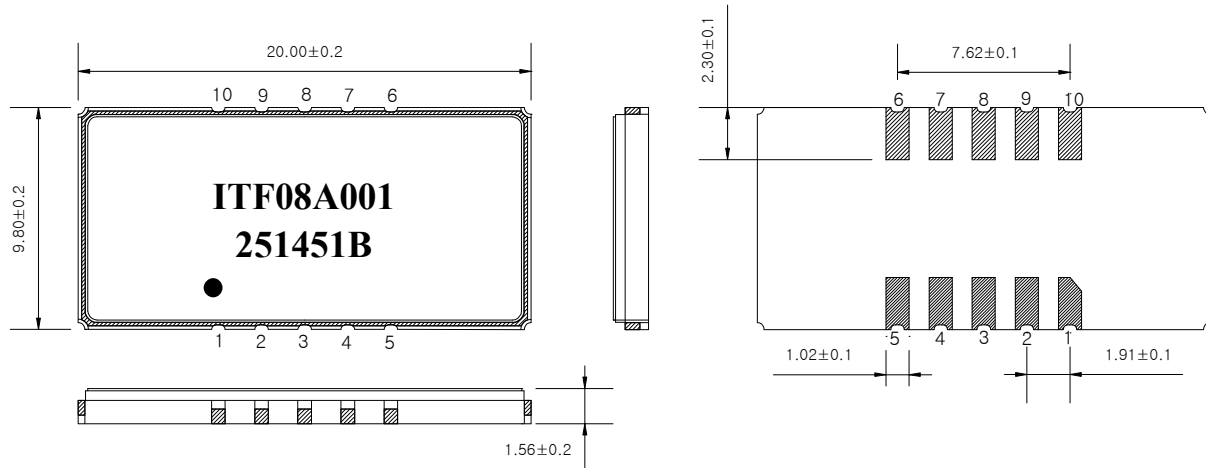
SAW Bandpass Filter 251451B



1. Features

- IF Bandpass Filter
- High Attenuation
- 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 : S 20.0 X 9.8

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 | |
|-------------------|-------------|
| 10 | Input |
| 5 | Output |
| 4,1 | Ground |
| Other | Case ground |



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 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

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3. Specifications

F_o = 120.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| Room Temperature : +25°C | | Minimum | Typical | Maximum |
|--------------------------------------|--------|---------|---------|---------|
| Center Frequency | MHz | - | 120.0 | - |
| Insertion Loss | dB | - | 22.7 | 24.0 |
| 1dB Bandwidth | MHz | 14.3 | 14.39 | - |
| 3dB Bandwidth | MHz | - | 14.66 | - |
| 40dB Bandwidth | MHz | - | 15.82 | 16.0 |
| Amplitude Ripple (fo±6.92 MHz) | dB | - | 0.56 | 1.0 |
| Group Delay Variation (fo±6.92 MHz) | nsec | - | 40 | 90 |
| Absolute Delay | usec | - | 2.38 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| Absolute Delay | | | | |
| Fo±7.7MHz | dB | 10 | 18 | - |
| 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

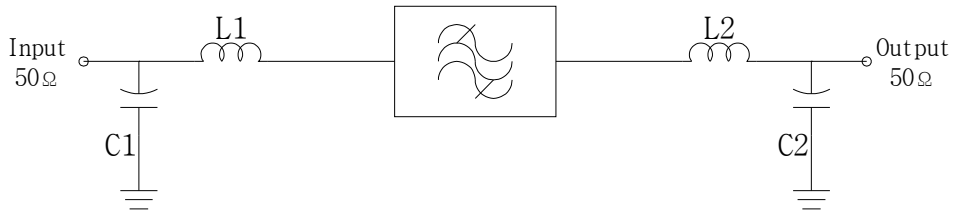
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4. Matching Schematic

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



L1 = 33nH, L2 = 33nH

C1 = 36pF, C2 = 39pF

5. Marking Configuration

ITF¹⁾ 08A001²⁾

251451B³⁾


●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

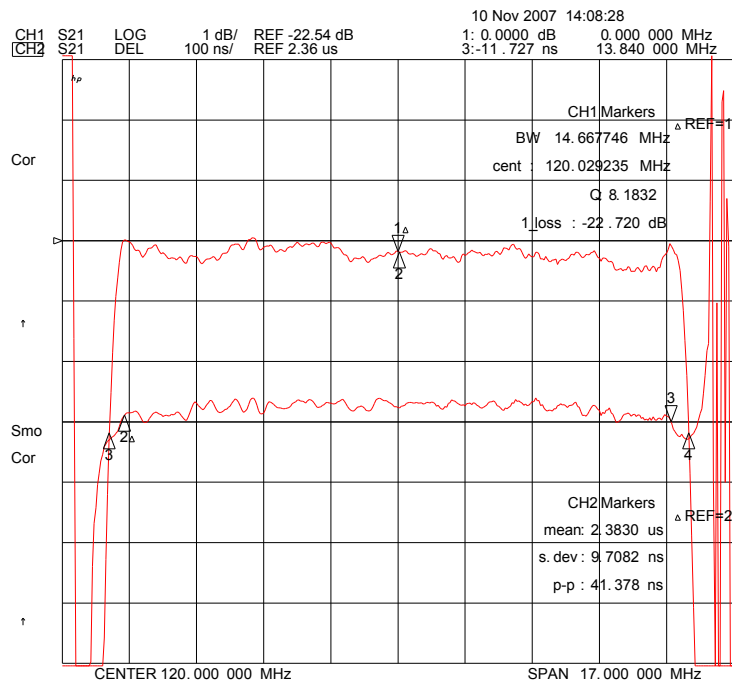
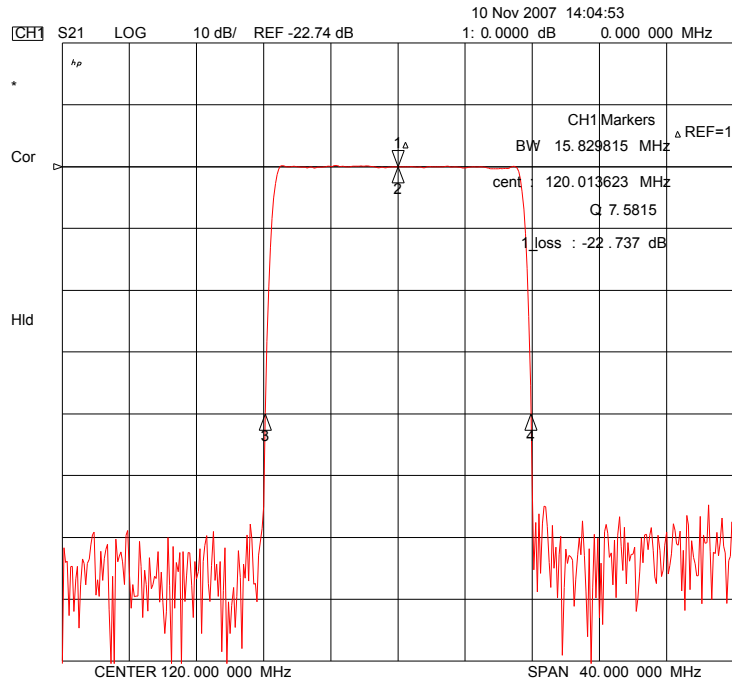
4) Pad Number 1 Index

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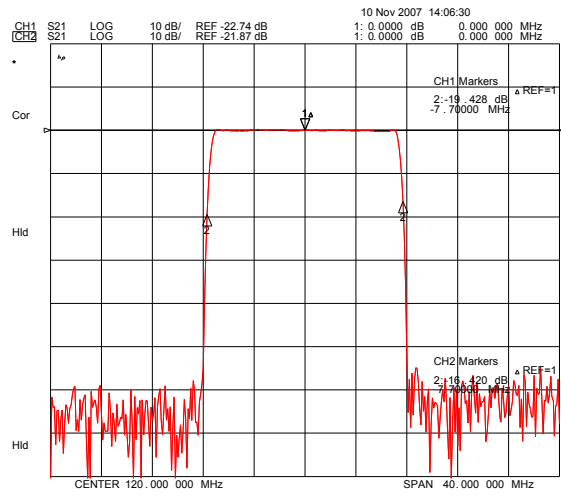
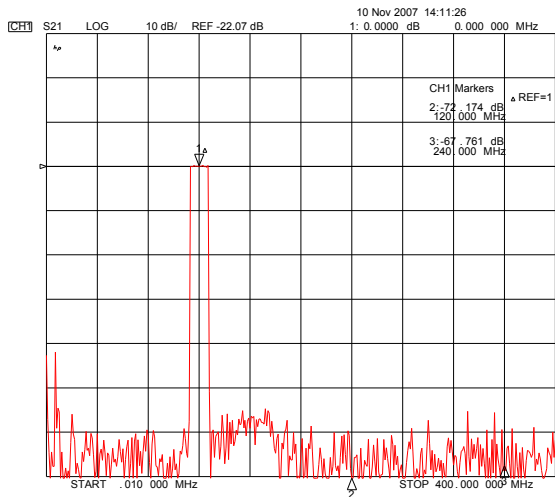
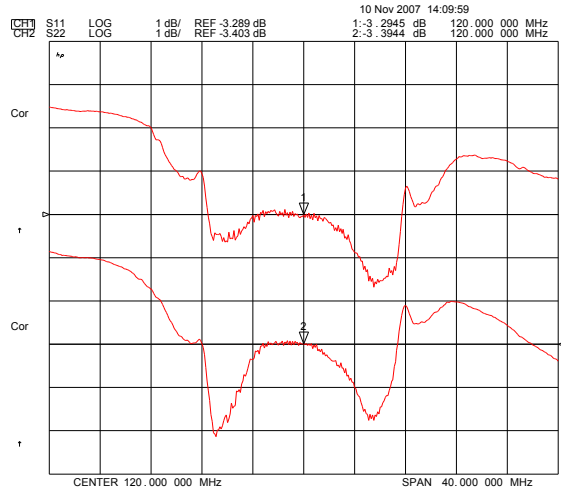
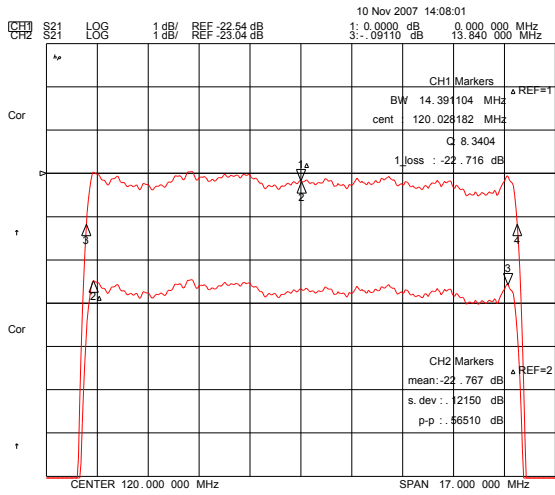
6. Typical Performance (at +25°C)



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