

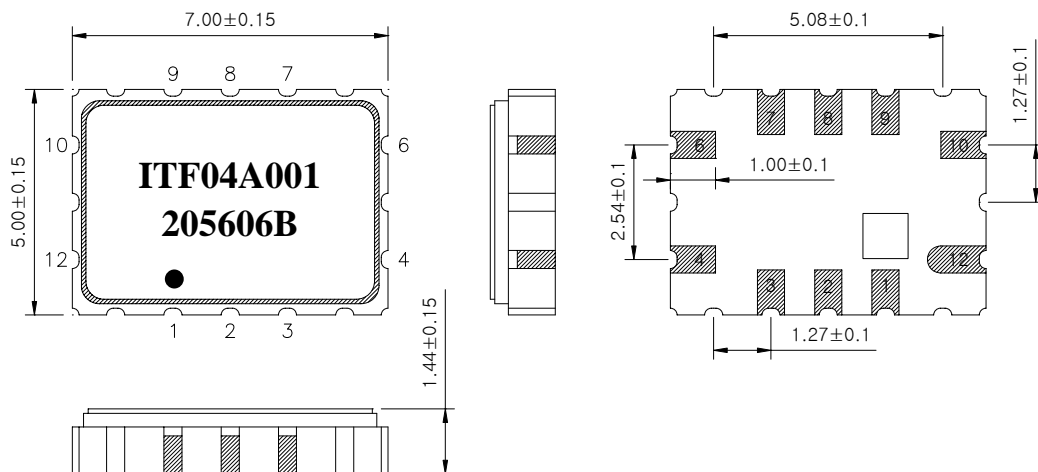
SAW Bandpass Filter 205606B - Preliminary



1. Features

- IF bandpass filter
- Low Insertion Loss
- Single-ended operation
- SMD Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : S7050

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

| Pin Configuration | |
|-------------------|-------------|
| 10 | Input |
| 4 | Output |
| 6, 12 | Ground |
| other | Case ground |



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 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

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3. Specifications

Fo = 110.592 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

| Operating temperature range : - 10 to + 60 °C | | Minimum | Typical | Maximum |
|---|--------|---------|---------|---------|
| Center Frequency | MHz | - | 110.592 | - |
| Insertion Loss | dB | - | 9.0 | 11.0 |
| 3dB Bandwidth | MHz | 1.0 | 1.45 | - |
| 35dB Bandwidth | MHz | - | 3.46 | 4.0 |
| Amplitude Ripple (Fo +/-0.3 MHz) | dB | - | 0.2 | 0.8 |
| Group Delay Variation (Fo +/- 0.3 MHz) | nsec | - | 100 | 200 |
| Absolute Delay | usec | - | 0.8 | - |
| Ultimate Rejection | dB | 35 | 38 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -15 | - |

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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

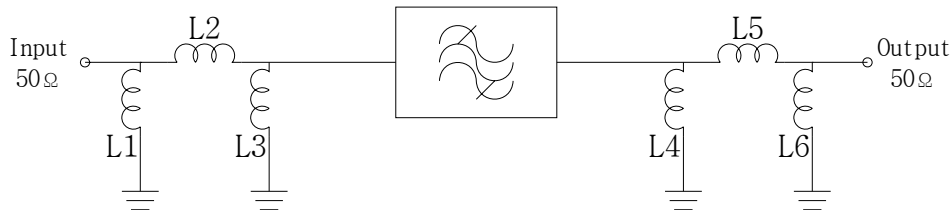
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4. Matching Schematic

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



$$L2 = L5 = 47 \text{ nH}$$

$$L1 = L3 = 180 \text{ nH}$$

$$L4 = L6 = 180 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾

205606B³⁾

●⁴⁾

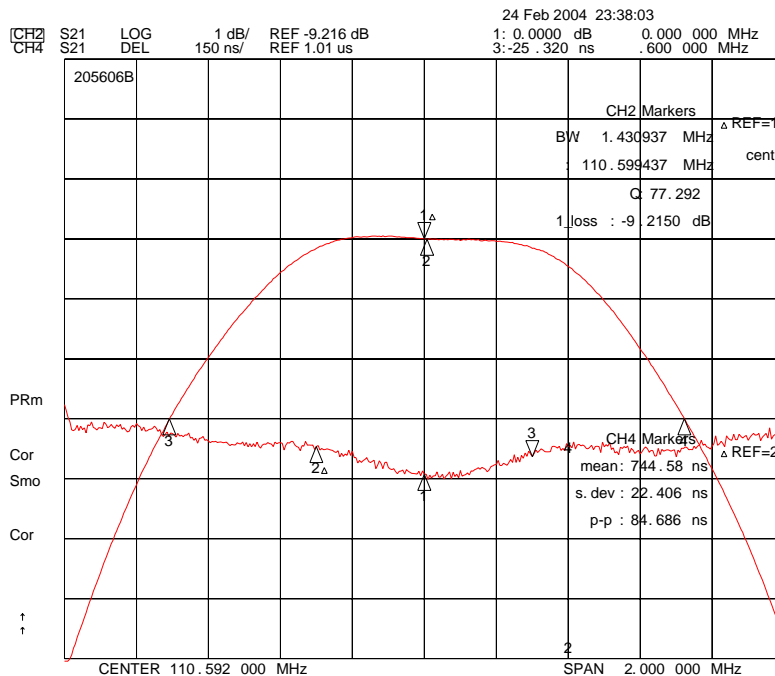
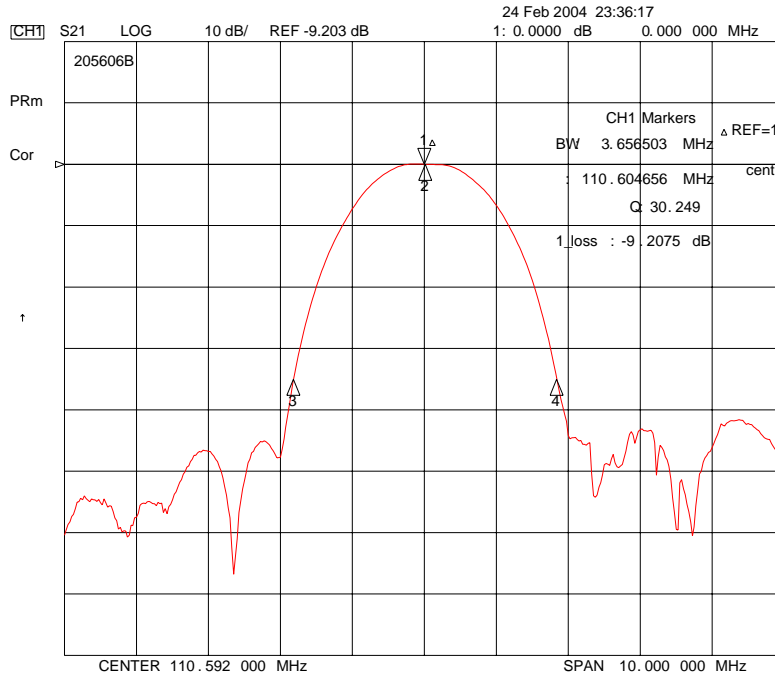
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pin Number 1 indicator

| | | | | |
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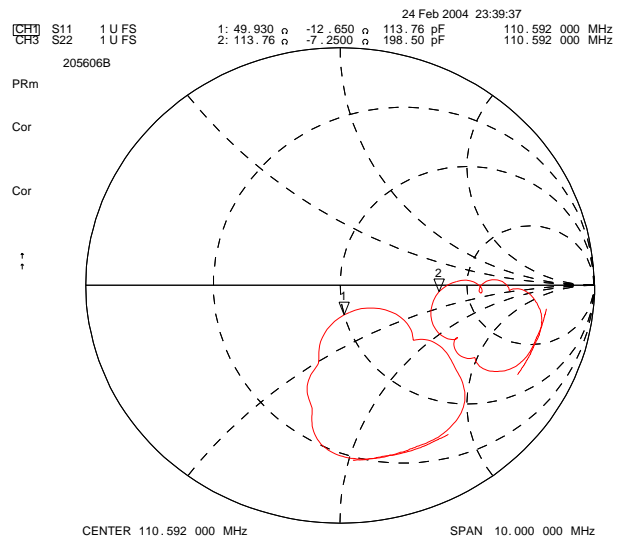
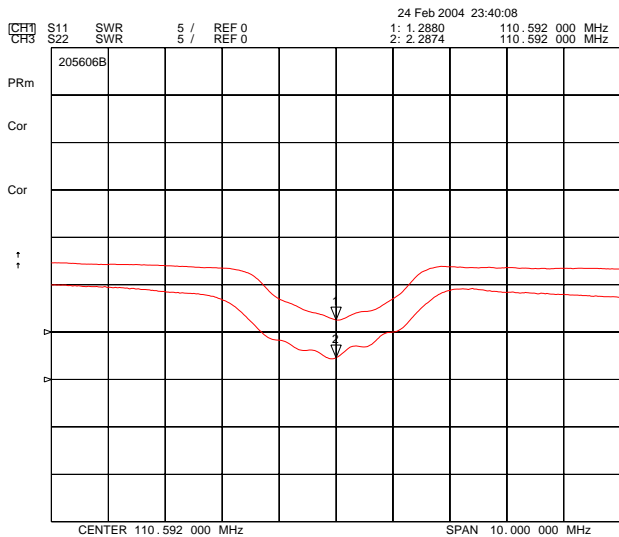
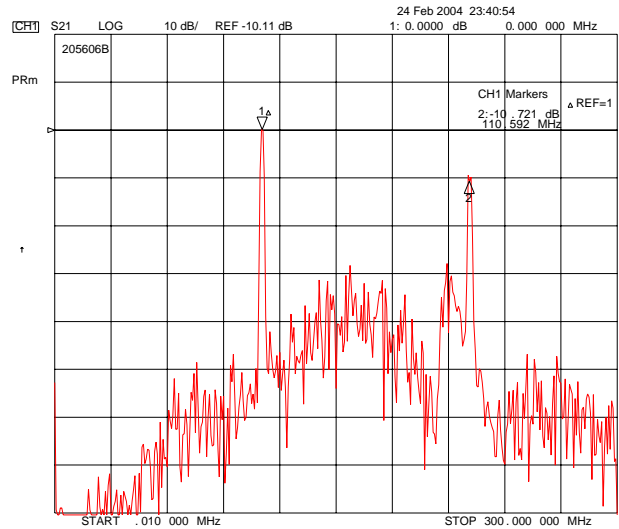
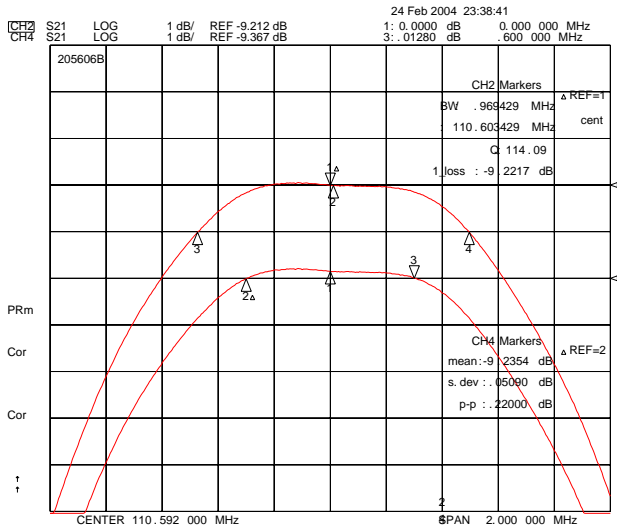


6. Typical Performance (at +25°C)



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