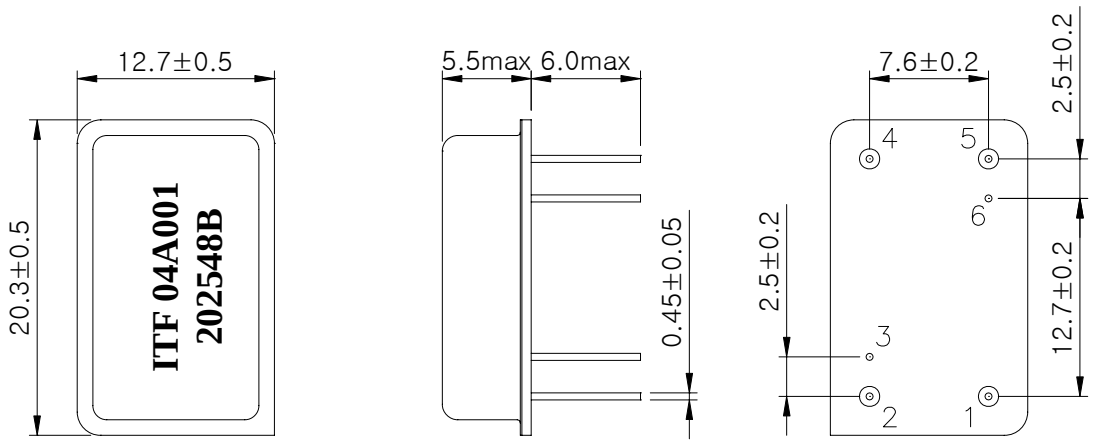
# SAW Bandpass Filter 202548B

## 1. Features

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

## 2. Package Dimension




**Package : D2012**

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 |

## 3. Specifications

Fo = 160.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

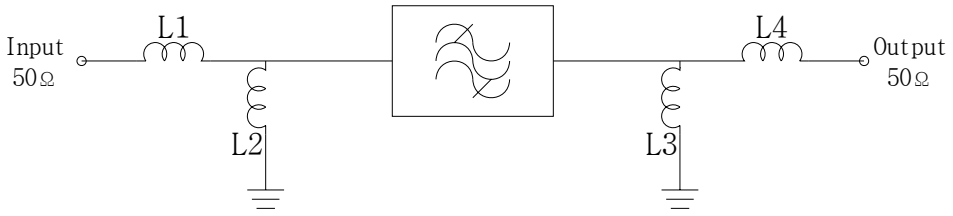
| | | Minimum | Typical | Maximum |
|---|---|---|---|---|
| Center Frequency | MHz | 159.9 | 160.0 | 160.1 |
| Insertion Loss | dB | - | 23.0 | 25.0 |
| 1dB Bandwidth | MHz | 9.0 | 9.15 | - |
| 3dB Bandwidth | MHz | 9.4 | 9.45 | - |
| 40dB Bandwidth | MHz | - | 10.8 | 10.95 |
| Amplitude Ripple (Fo +/- 4.375 MHz) | dB | - | 0.8 | 1.0 |
| Group Delay Variation (Fo +/- 4.375 MHz) | nsec | - | 80 | 150 |
| Absolute Delay | usec | - | 2.91 | - |
| Ultimate Rejection | dB | 50 | 55 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -23 | - |

**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

## 4. Matching Schematic

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




L1 = L4 = 15 nH,

L2 = 22 nH, L3 = 27 nH

## 5. Marking Configuration

ITF[1] 04A001[2]

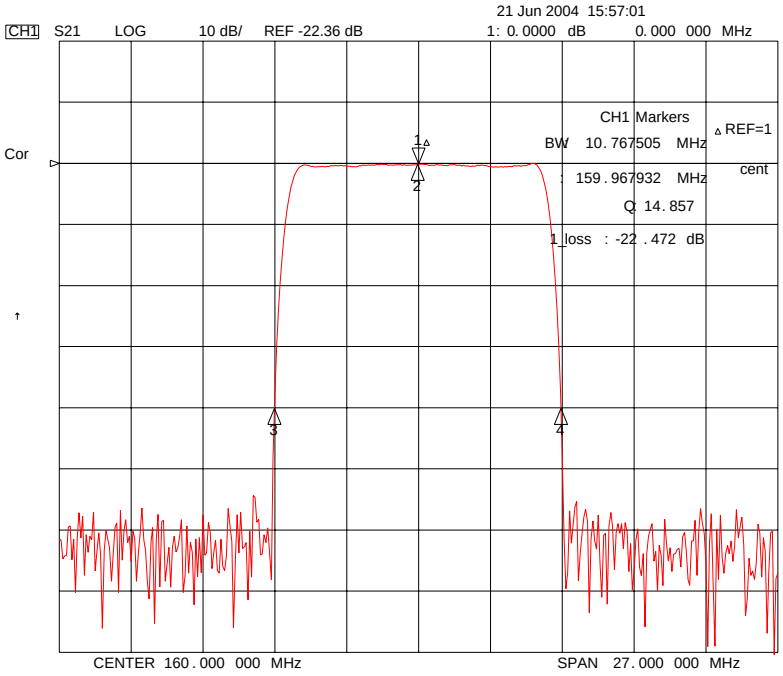
202548B[3]

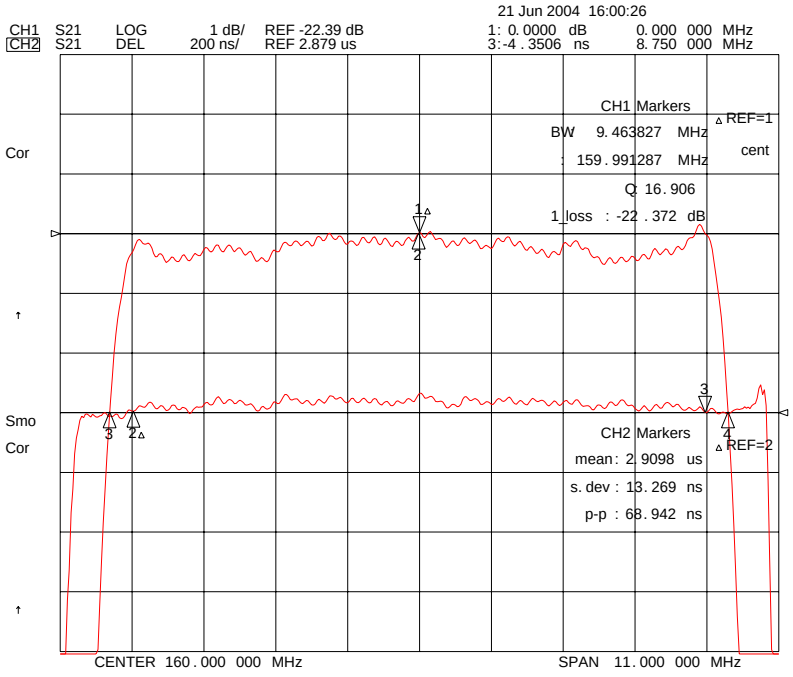
1) Manufacturer name

2) Lot Number

3) Part Number

## 6. Typical Performance ( at +25℃ )



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