

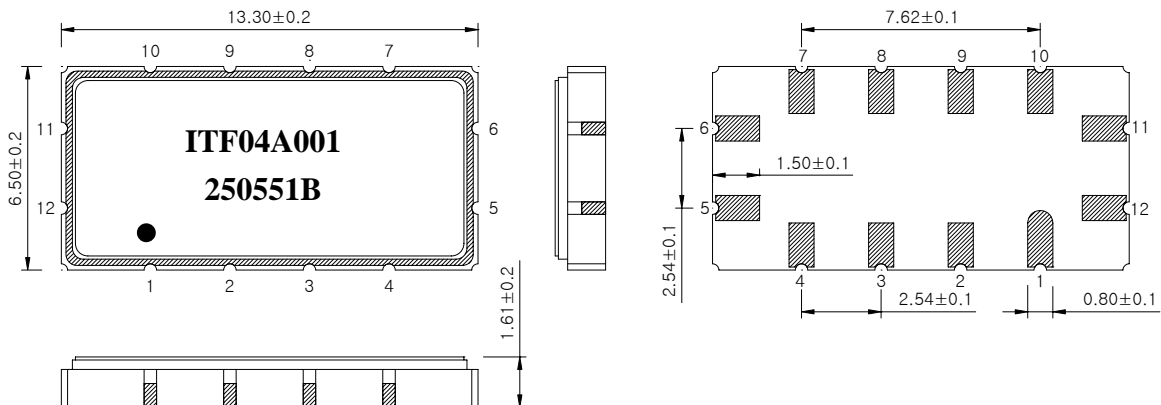
SAW Bandpass Filter 250551B



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



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

Part No.	250551B	
Rev. Date	2005-08-19	
Rev.	NJ5001-CS01	1/5

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3. Specifications

Fo = 110 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -30℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency	MHz	109.65	110.0	110.35
Insertion Loss	dB	-	14.0	16.0
1dB Bandwidth	MHz	4.4	4.9	-
3dB Bandwidth	MHz	4.9	5.4	-
40dB Bandwidth	MHz	-	7.6	8.4
Amplitude Ripple (Fo +/- 1.85 MHz)	dB	-	0.4	0.8
Group Delay Variation (Fo +/- 1.85 MHz)	nsec	-	40	110
Absolute Delay	usec	-	1.42	-
Ultimate Rejection	dB	40	50	-
Temperature Coefficient of Frequency	ppm/℃	-	-83	-

Room temperature : +25℃		Minimum	Typical	Maximum
Center Frequency	MHz	109.8	110.0	110.2
Amplitude Ripple (Fo +/- 2.0 MHz)	dB	-	0.4	1.0
Group Delay Variation (Fo +/- 2.0MHz)	nsec	-	40	110

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

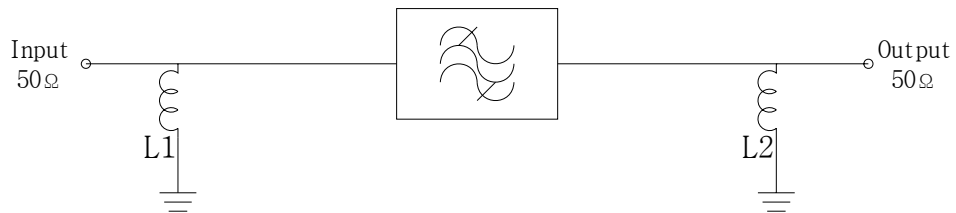
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4. Matching Schematic

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



L1 = 22 nH, L2 = 18 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾

250551B³⁾

● 4)

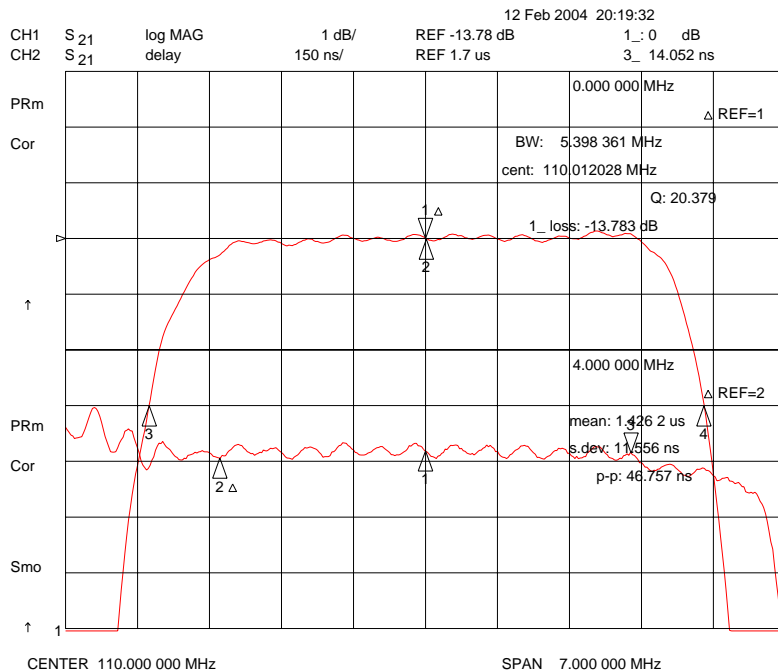
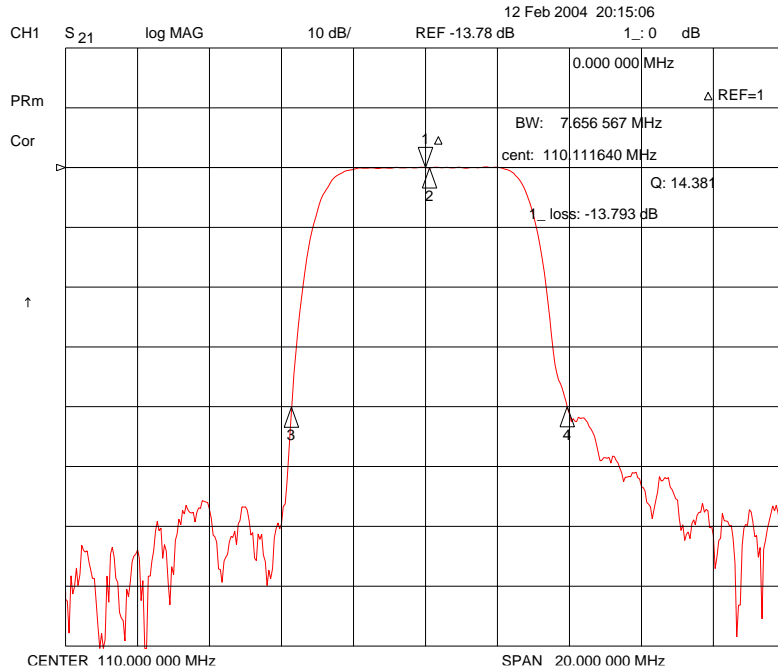
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



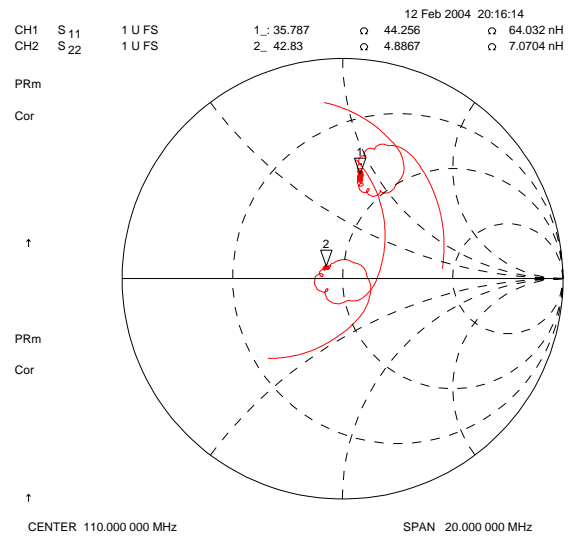
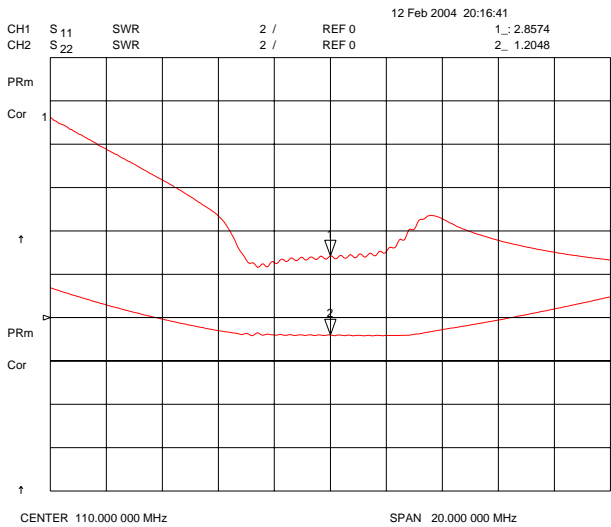
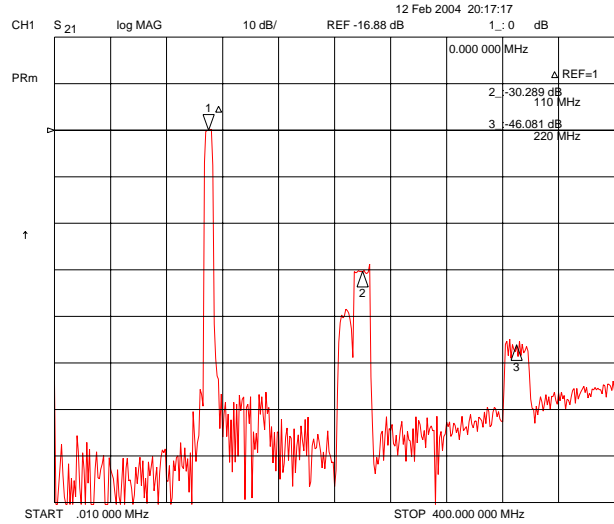
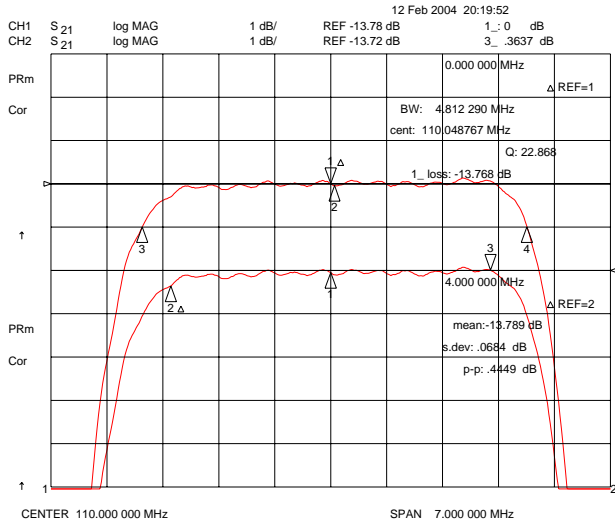
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