

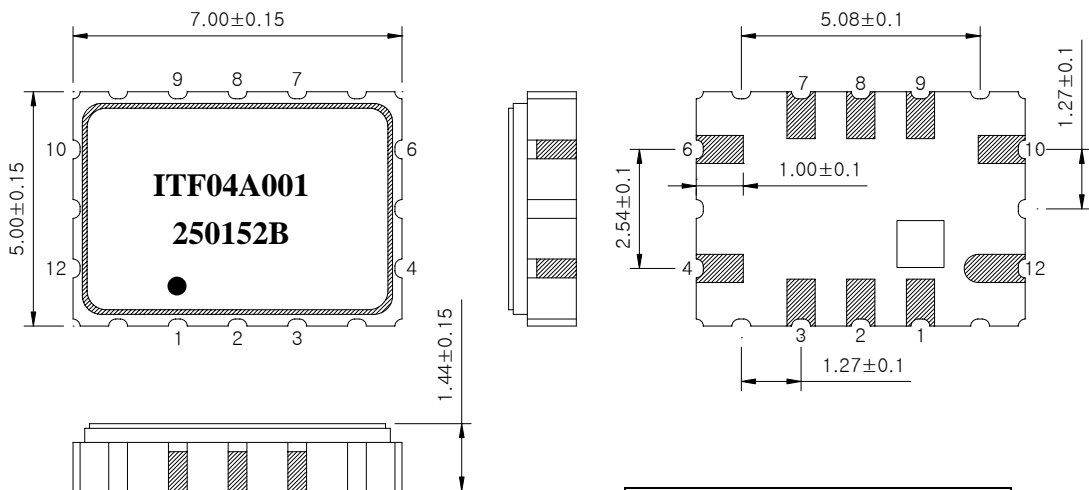
# SAW Bandpass Filter 250152B



## 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 : S7050**

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub> 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
4	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.	250152B	
Rev. Date	2004-05-27	
Rev.	NW4011-CS01	1/5

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## 3. Specifications

Fo = 110.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -10°C ~ +60°C		Minimum	Typical	Maximum
Center Frequency	MHz	-	110.0	-
Insertion Loss	dB	-	8.7	13.0
1dB Bandwidth	MHz	-	1.0	-
3dB Bandwidth	MHz	1.0	1.4	-
40dB Bandwidth	MHz	-	3.75	4.0
Amplitude Ripple (Fo +/- 0.25 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 0.25 MHz)	nsec	-	100	200
Absolute Delay	usec	-	0.72	-
Ultimate Rejection	dB	35	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-13	-

### 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

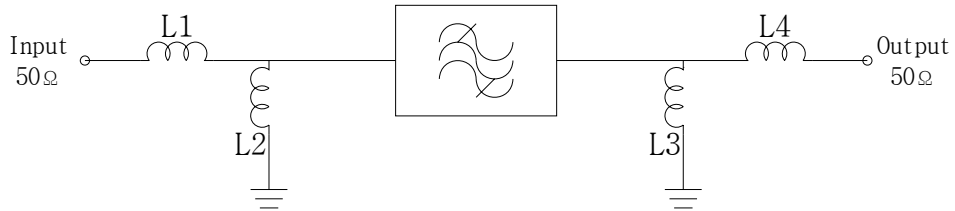
	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250152B	
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## 4. Matching Schematic

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



L1 = L4 = 82 nH  
L2 = 150 nH,      L3 = 180 nH

## 5. Marking Configuration

ITF<sup>1)</sup> 04A001<sup>2)</sup>

250152B<sup>3)</sup>

●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

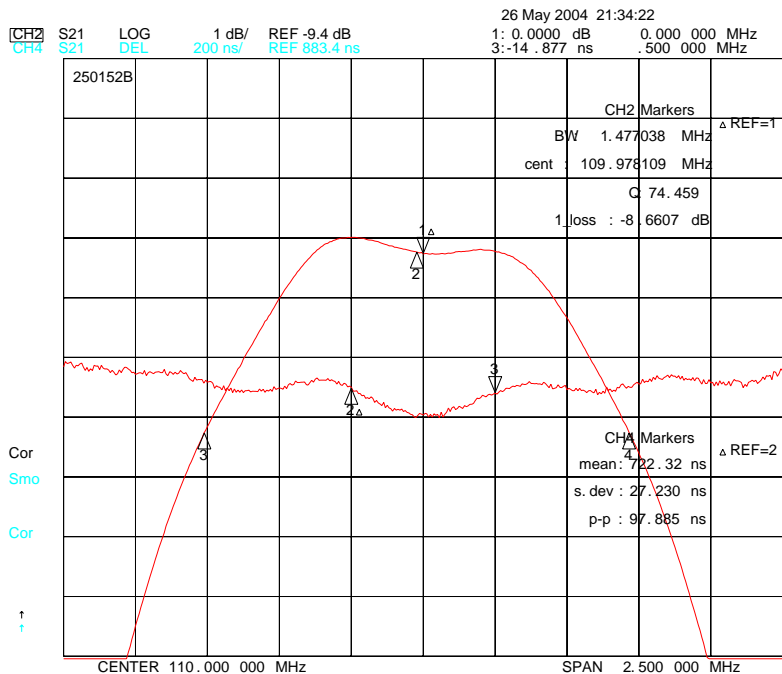
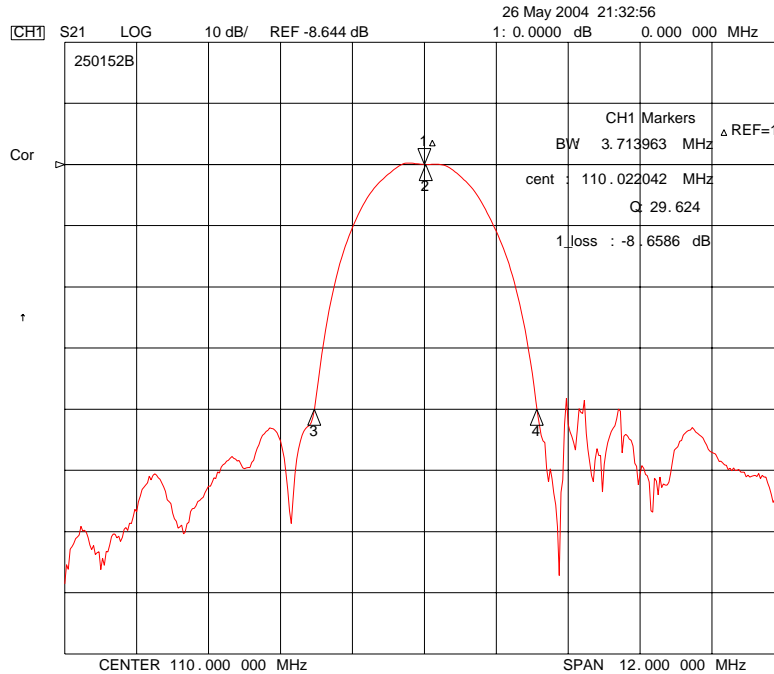
4) Pad Number 1 Index

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



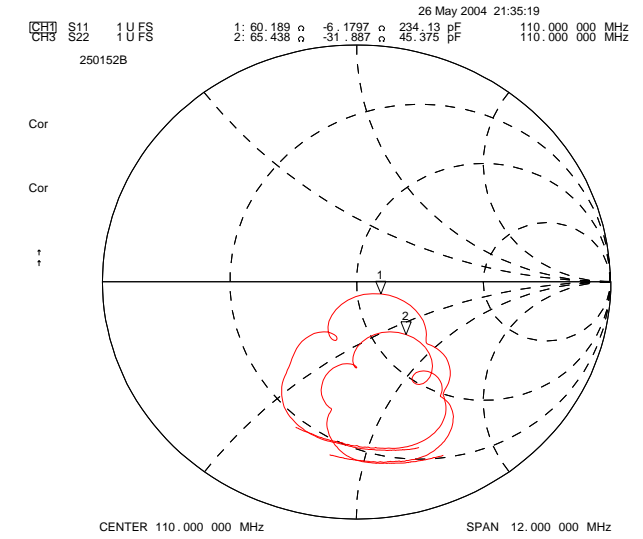
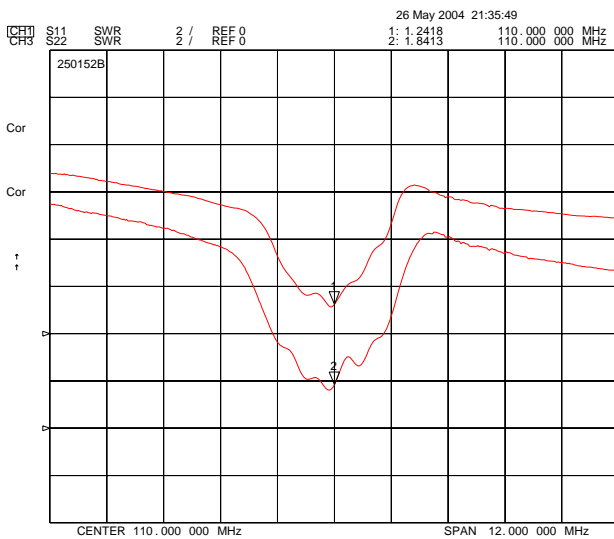
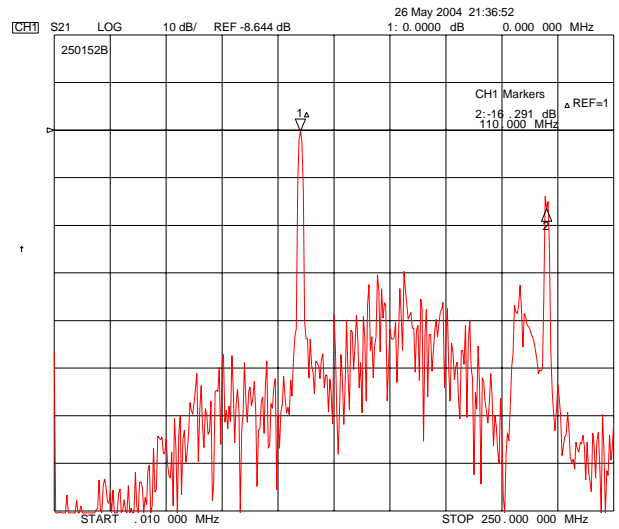
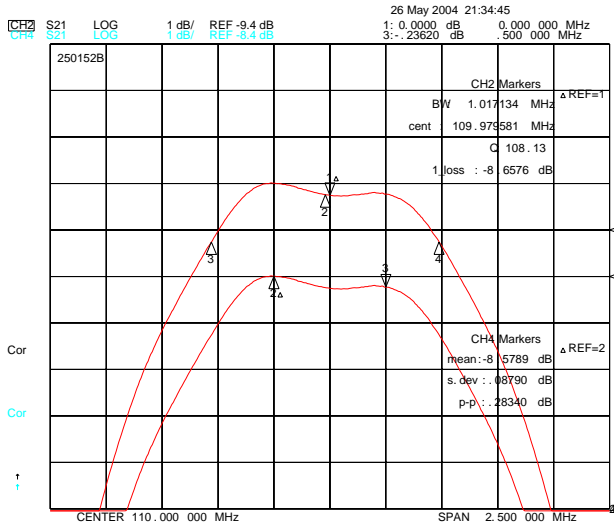
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