

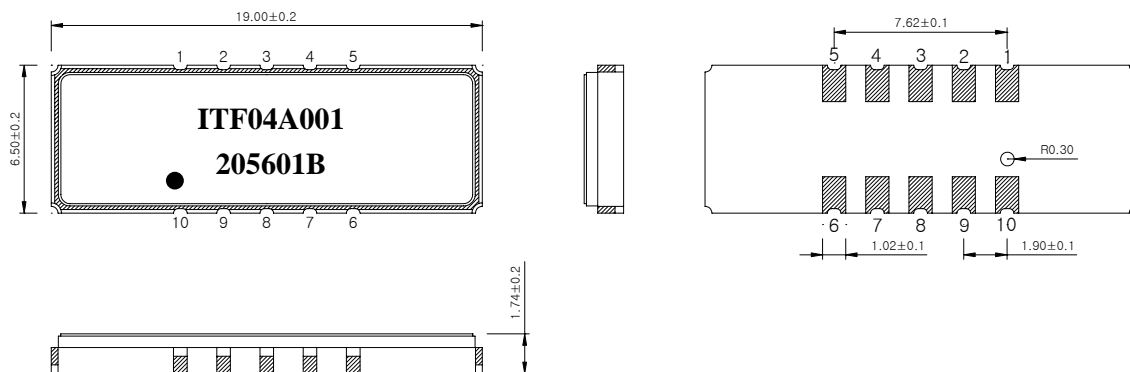
# SAW Bandpass Filter 205601B



## 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 : S1965-2**

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
5	Output
1, 6	Ground
Other	Case ground

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205601B	
		Rev. Date	2004-06-08	
		Rev.	NI0027-CS05	1/5

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## 3. Specifications

Fo = 150.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -30°C ~ +80°C		Minimum	Typical	Maximum
Center Frequency	MHz	149.94	150.0	150.06
Insertion Loss (IL)	dB	-	20.0	22.0
Insertion Loss Variation				
at -30°C	dB	IL-0.35	IL-0.3	-
at 80°C	dB	-	IL+0.55	IL+0.6
1dB Bandwidth	MHz	-	1.3	-
3dB Bandwidth	MHz	1.5	1.56	-
40dB Bandwidth	MHz	-	2.5	2.7
Amplitude Ripple (Fo +/- 0.5 MHz)	dB	-	1.0	1.5
Group Delay Variation (Fo +/- 0.5 MHz)	nsec	-	100	200
Absolute Delay	usec	-	2.4	-
Ultimate Rejection	dB	30	35	-
Temperature Coefficient of Frequency	ppm/°C <sup>2</sup>	-	-0.03	-

### 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

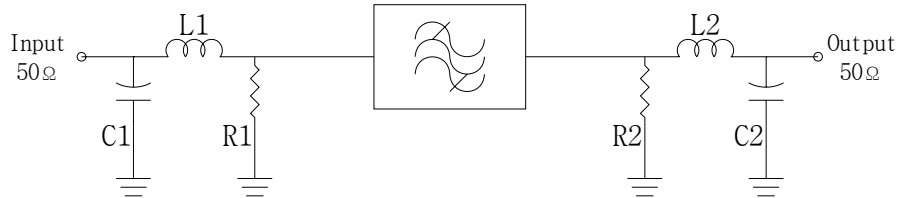
	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205601B	
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## 4. Matching Schematic

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



L1 = 100 nH,      L2 = 68 nH  
C1 = 39 pF,      C2 = 51 pF  
R1 = 1 KΩ,      R2 = 1 KΩ

## 5. Marking Configuration

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

205601B<sup>3)</sup>

● <sup>4)</sup>

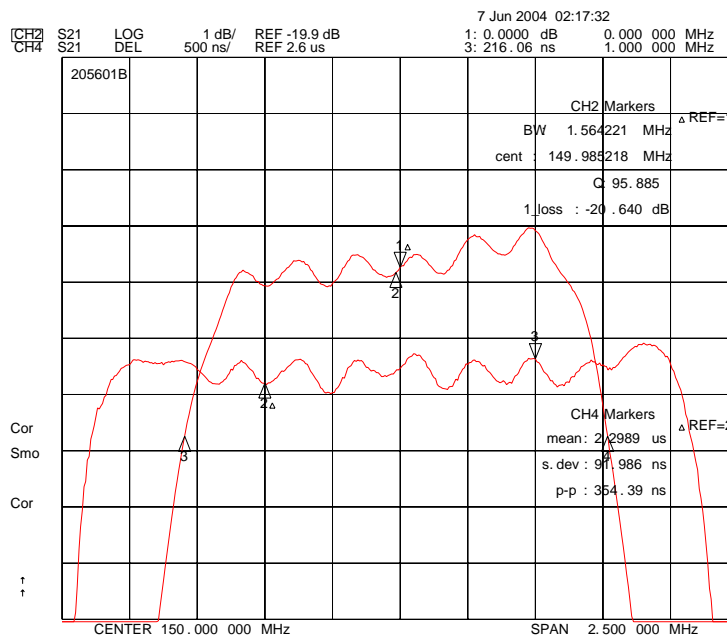
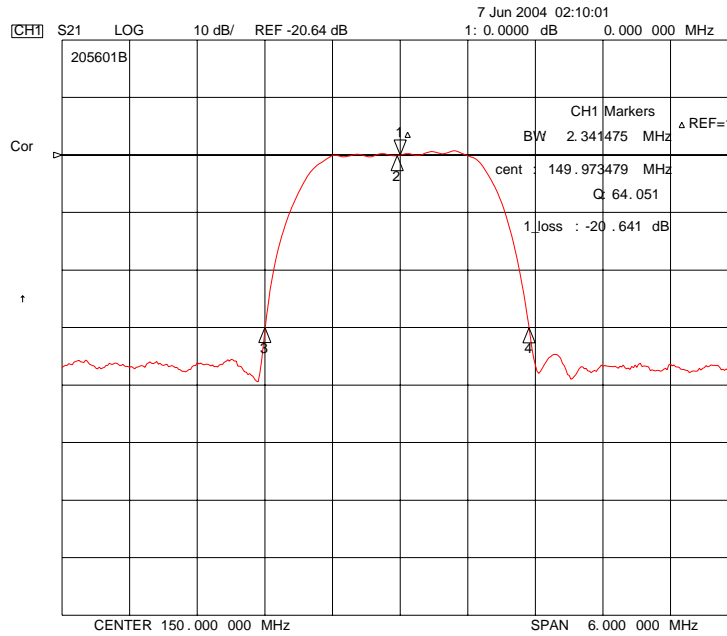
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 10 Index


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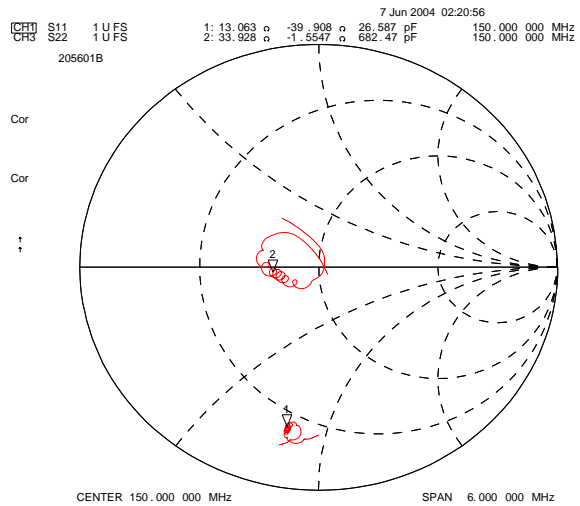
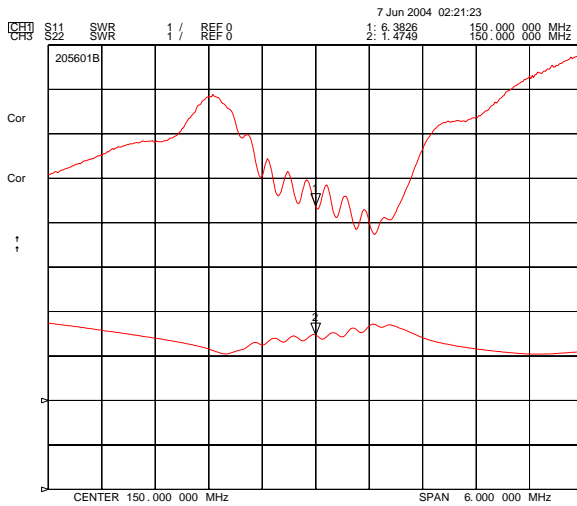
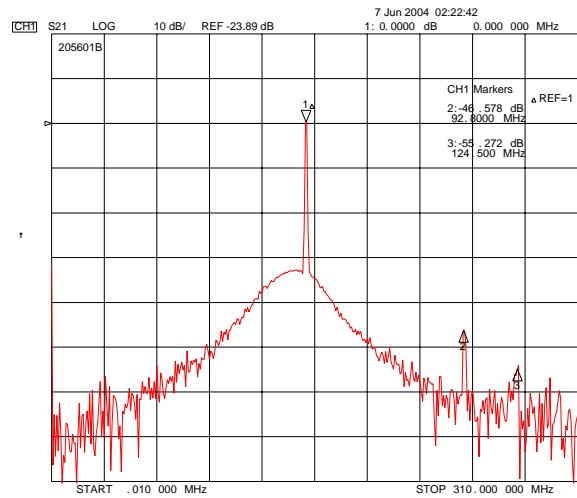
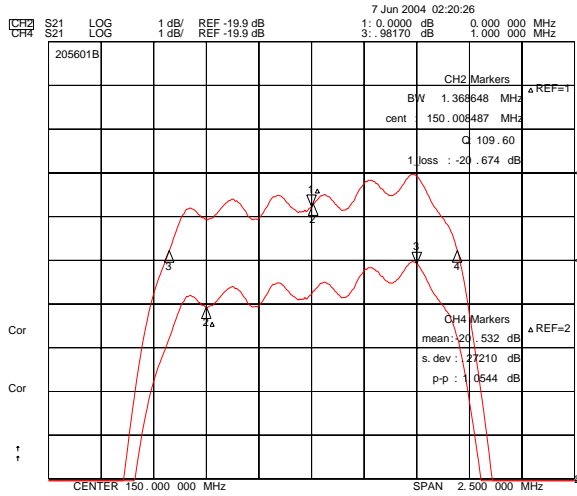


## 6. Typical Performance ( at +25°C )



 <p>ITF Integrated Technology Future</p>	<p><b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809</p>	Part No.	205601B	
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