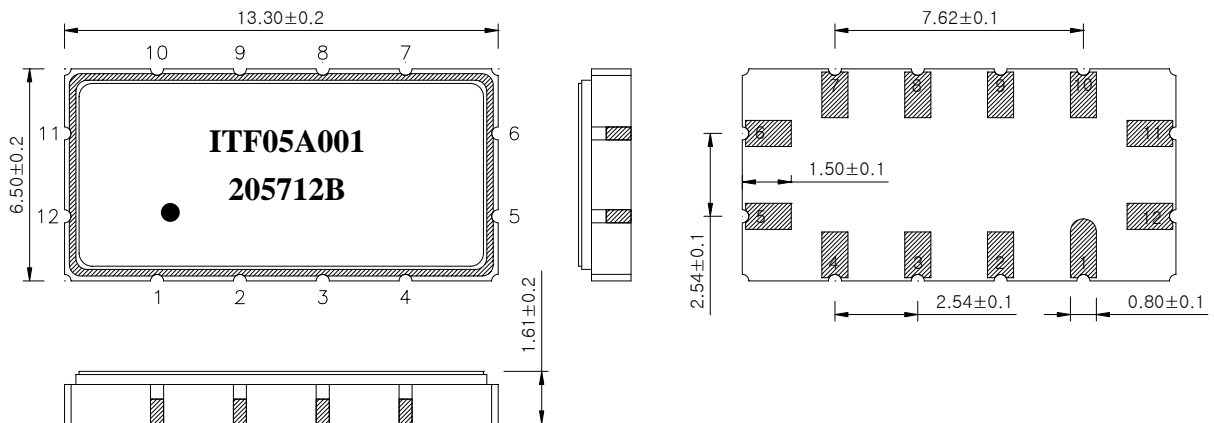


# SAW Bandpass Filter 205712B

## 1. Features

- IF Bandpass Filter
- High-Attenuation
- 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 : 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	
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.	205712B	
Rev. Date	2005-09-14	
Rev.	NW5010-CS01	1/5

## SAW Bandpass Filter 205712B

### 3. Specifications

Fo = 175.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	174.95	175.0	175.05
Insertion Loss	dB	-	12.2	13.0
1dB Bandwidth	MHz	-	0.5	-
3dB Bandwidth	MHz	0.8	0.95	-
40dB Bandwidth	MHz	-	2.75	2.8
Amplitude Ripple (Fc +/- 0.2 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fc +/- 0.2 MHz)	nsec	-	70	150
Absolute Delay	usec	-	1.7	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-0.03	-

#### Notes :

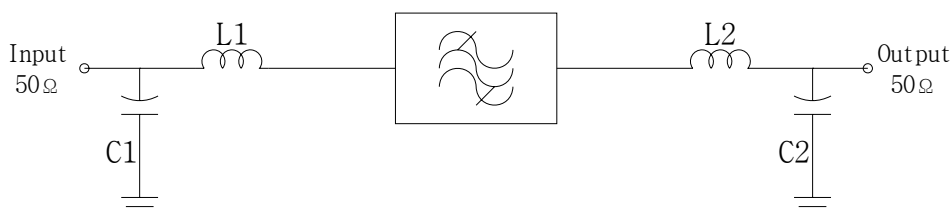
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205712B	
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## SAW Bandpass Filter 205712B

### 4. Matching Schematic

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



$$L1 = L2 = 56 \text{ nH}$$

$$C1 = C2 = 43 \text{ pF}$$

### 5. Marking Configuration

ITF<sup>1)</sup> 05A001<sup>2)</sup>

205712B<sup>3)</sup>


●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

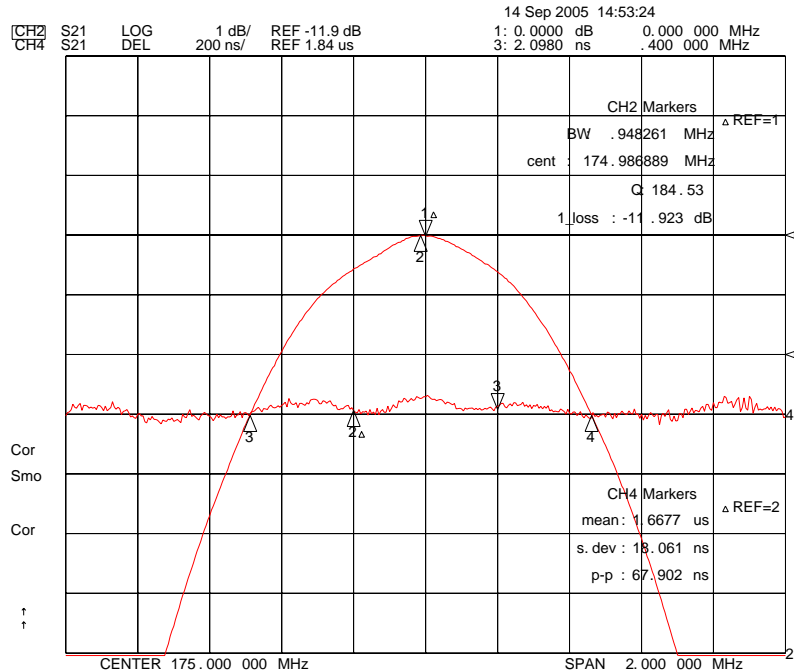
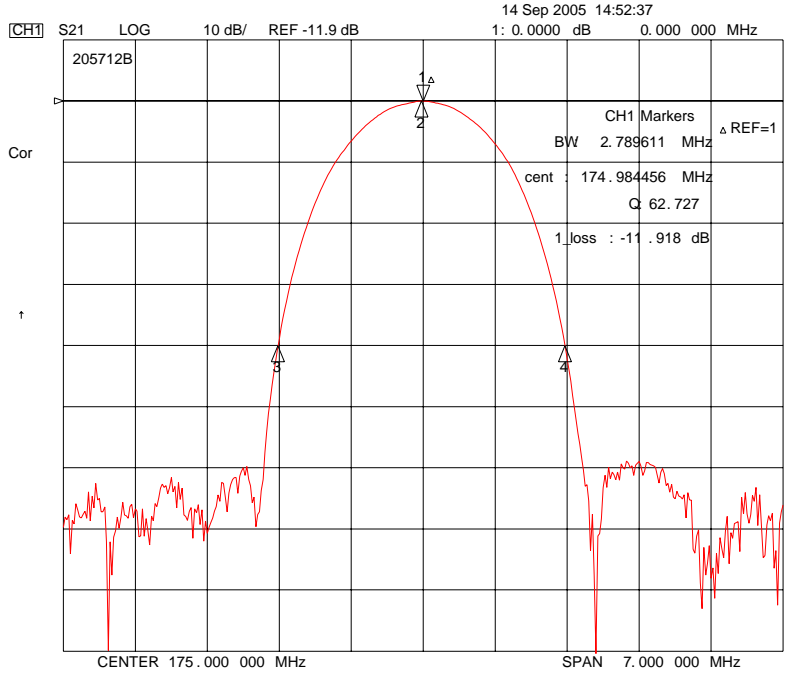
3) Part Number

4) Pad Number 1 Index

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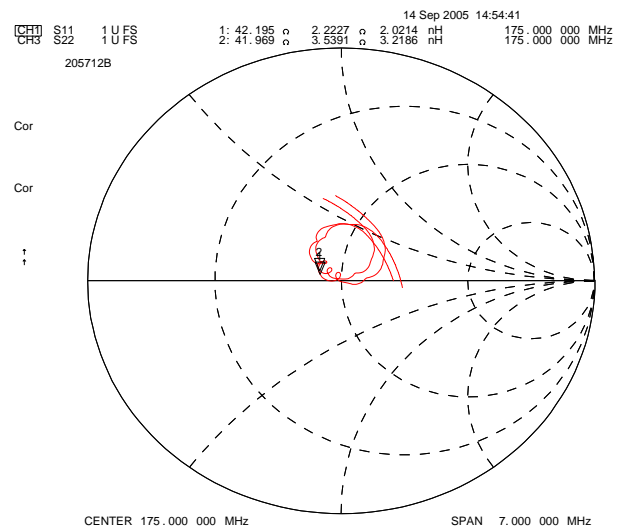
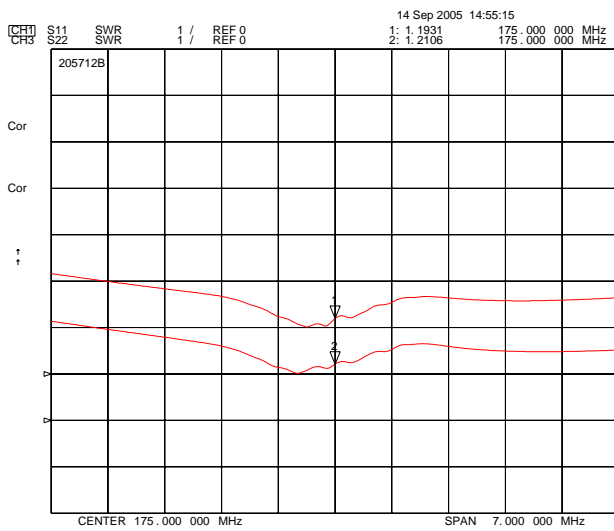
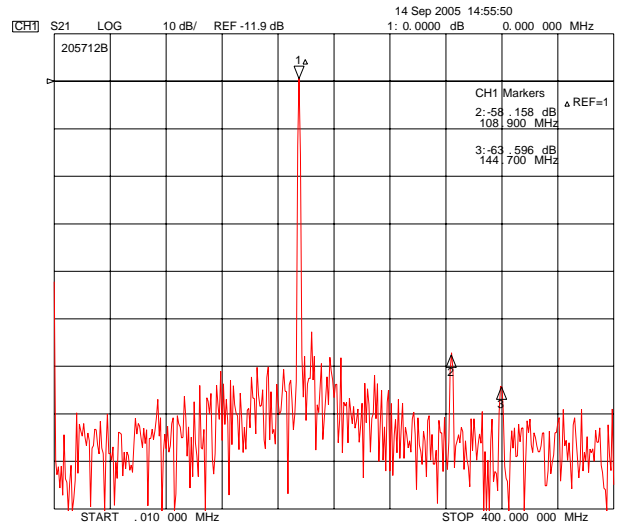
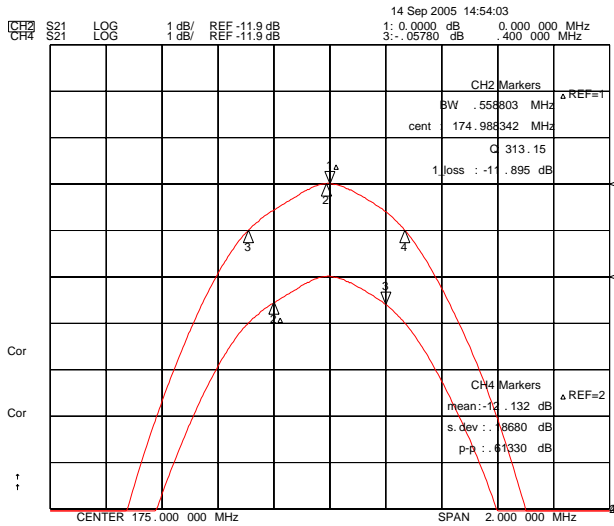
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## 6. Typical Performance ( at +25°C )



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# SAW Bandpass Filter 205712B



	<p align="center"><b>ITF Co., Ltd.</b>                  102-901, Bucheon Technopark 364,                  Samjeong-Dong, Ojeong-Gu, Bucheon-City,                  Gyeonggi-Do, Korea 421-809</p>	Part No.	205712B	
		Rev. Date	2005-09-14	
		Rev.	NW5010-CS01	5/5