

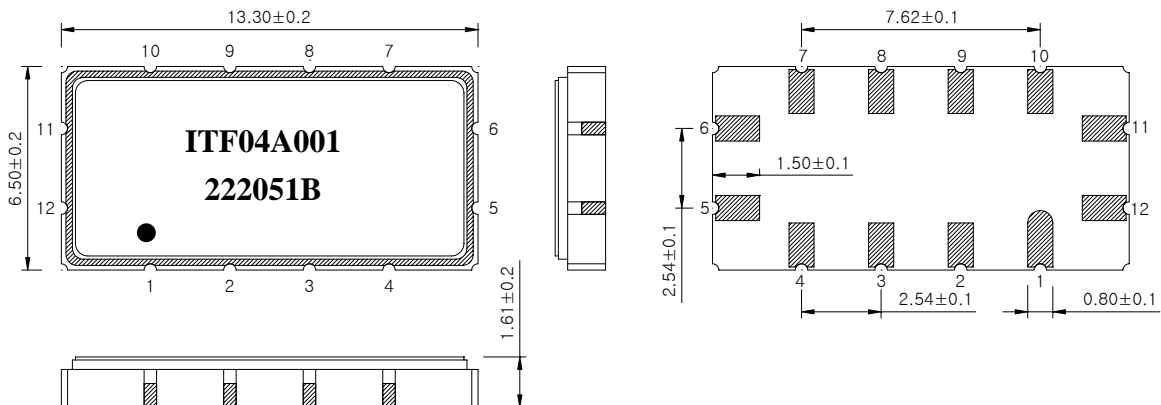
# SAW Bandpass Filter 222051B



## 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 : 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.	222051B	
Rev. Date	2004-07-09	
Rev.	NJ4005-CS02	1/5

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## 3. Specifications

Fo = 62.5 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	62.15	62.5	62.85
Insertion Loss	dB	-	14.8	16.5
1dB Bandwidth	MHz	19.7	19.9	-
3dB Bandwidth	MHz	20.3	20.6	-
40dB Bandwidth	MHz	-	23.7	24.2
Amplitude Ripple (Fo +/- 9.3 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 9.3 MHz)	nsec	-	50	120
Absolute Delay	usec	-	1.24	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Room Temperature : +25°C		Minimum	Typical	Maximum
Amplitude Ripple (Fo +/- 9.5 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 9.5 MHz)	nsec	-	50	120

### 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

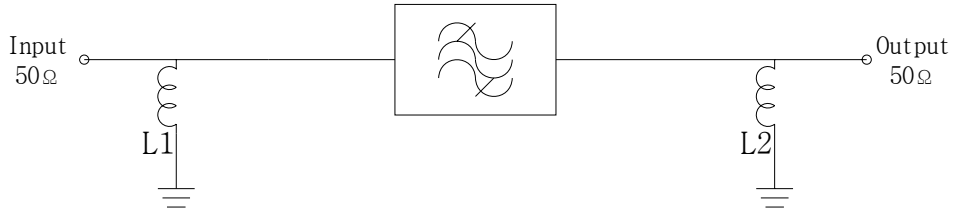
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## 4. Matching Schematic

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



L1 = 150 nH,      L2 = 82 nH

## 5. Marking Configuration

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

222051B<sup>3)</sup>


●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

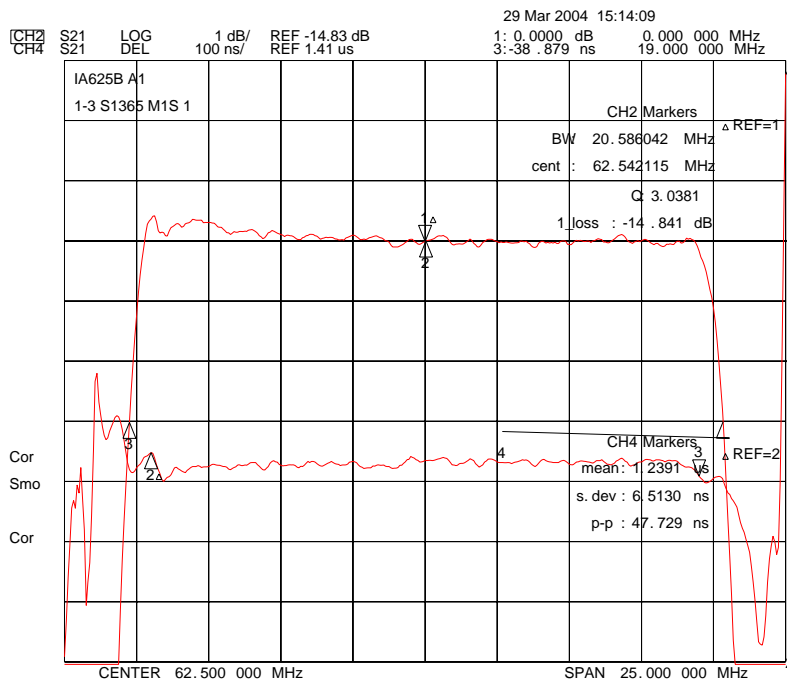
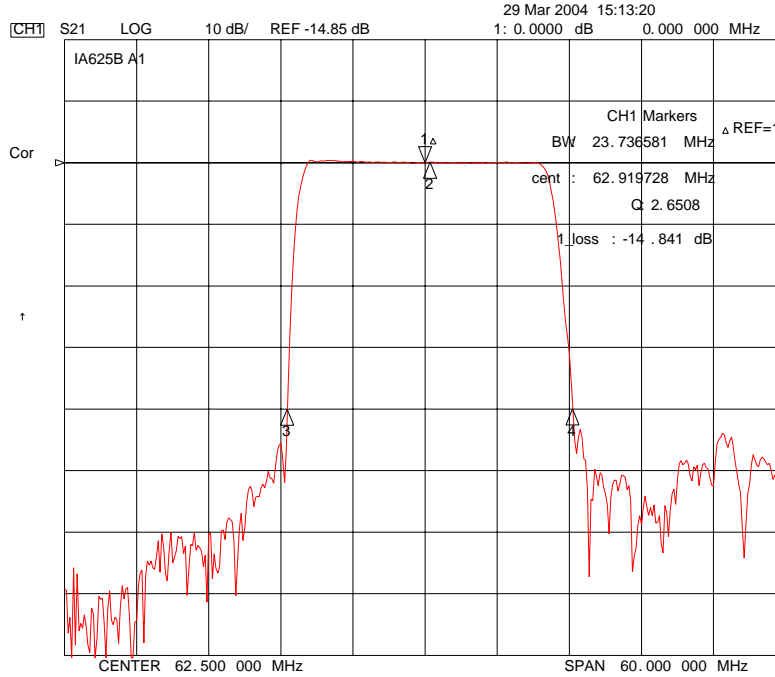
4) Pad Number 1 Index

 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.	222051B	
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## 6. Typical Performance ( at +25°C )



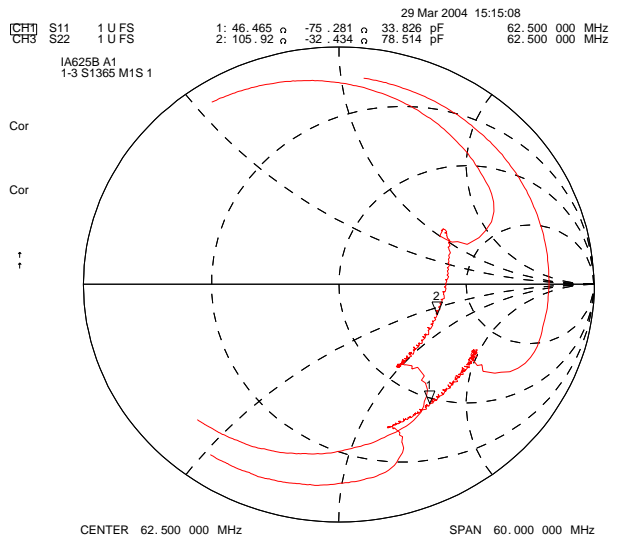
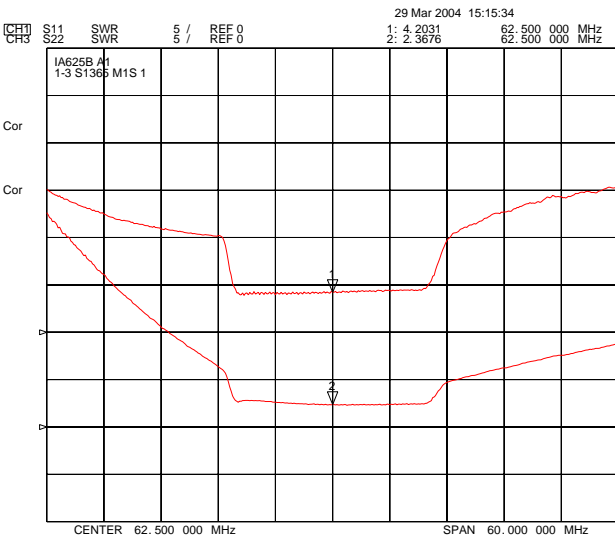
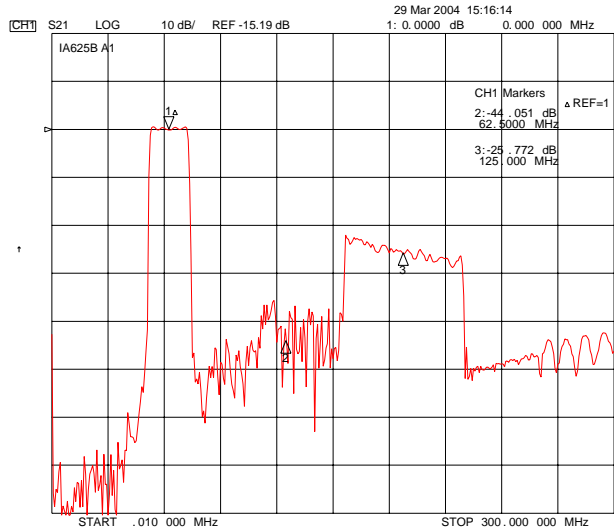
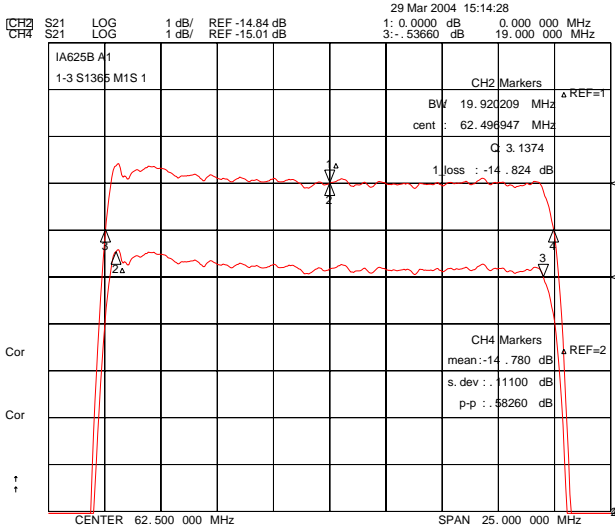
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