

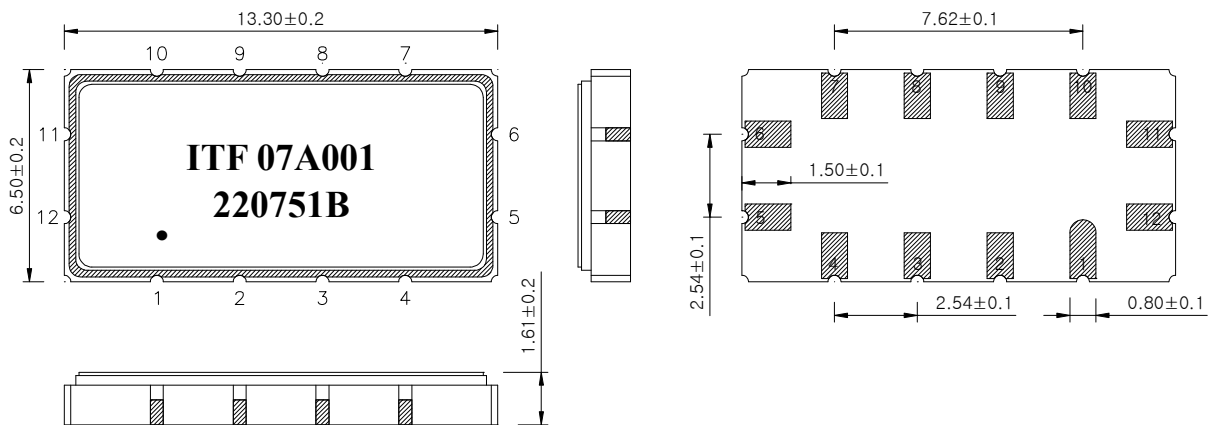
# Bandpass Filter 220751B



## 1. Features

- IF bandpass filter
- Low-Loss Filter
- Single-ended operation
- Ceramic Surface Mount Device(SMD) Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimension



**Package : S1365**

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub>

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

Pin Configuration	
11	Input
5	Output
6, 12	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.	220751B	
		Rev. Date	2007-05-04	
		Rev.	NJ7006-AS01	1/5

# Bandpass Filter 220751B



## 3. Specifications


F<sub>o</sub> = 62.5 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -30℃ ~ +50℃		Minimum	Typical	Maximum
Center Frequency (F <sub>c</sub> )	MHz	-	62.5	-
Insertion Loss	dB	-	9.5	11.5
1dB Bandwidth	MHz	-	6.84	-
3dB Bandwidth	MHz	7.0	7.38	-
40dB Bandwidth	MHz	-	10.24	10.5
Amplitude Ripple (F <sub>o</sub> +/- 2.53 MHz)	dB	-	0.55	0.8
Group Delay Variation (F <sub>o</sub> +/- 2.53 MHz)	nsec	-	80	150
Absolute Delay	usec	-	1.28	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency (TCF)	ppm/°C	-	- 86	-

Room temperature : + 25℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	62.5	-
Insertion Loss	dB	-	9.5	11.0
Amplitude Ripple (F <sub>o</sub> +/- 2.75 MHz)	dB	-	0.55	0.8
Group Delay Variation (F <sub>o</sub> +/- 2.75 MHz)	nsec	-	80	150

 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.	220751B	
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		Rev.	NJ7006-AS01	2/5

# Bandpass Filter 220751B

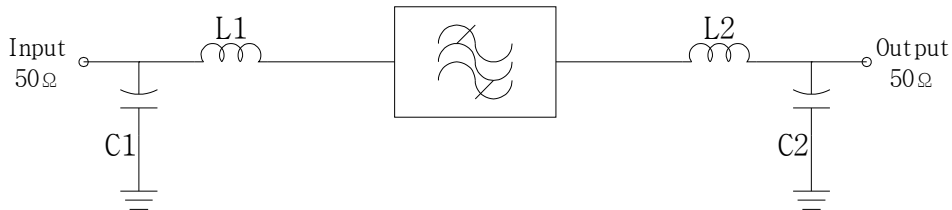


**Notes :**

- 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

## 4. Matching Schematic

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



$$L1 = L2 = 150 \text{ nH}$$

$$C1 = 91 \text{ pF}, C2 = 75 \text{ pF}$$

## 5. Marking Configuration

ITF<sup>1)</sup> 07A001<sup>2)</sup>

220751B<sup>3)</sup>

● <sup>4)</sup>

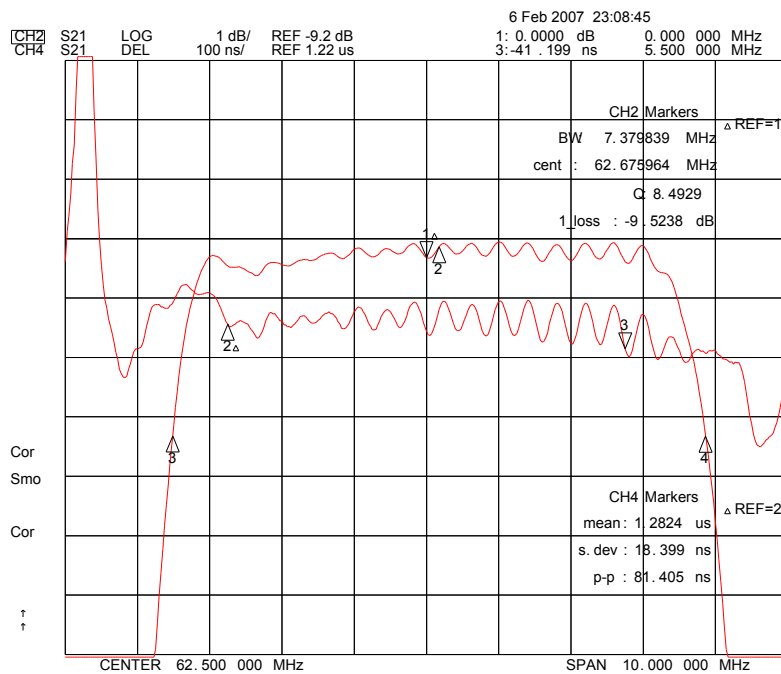
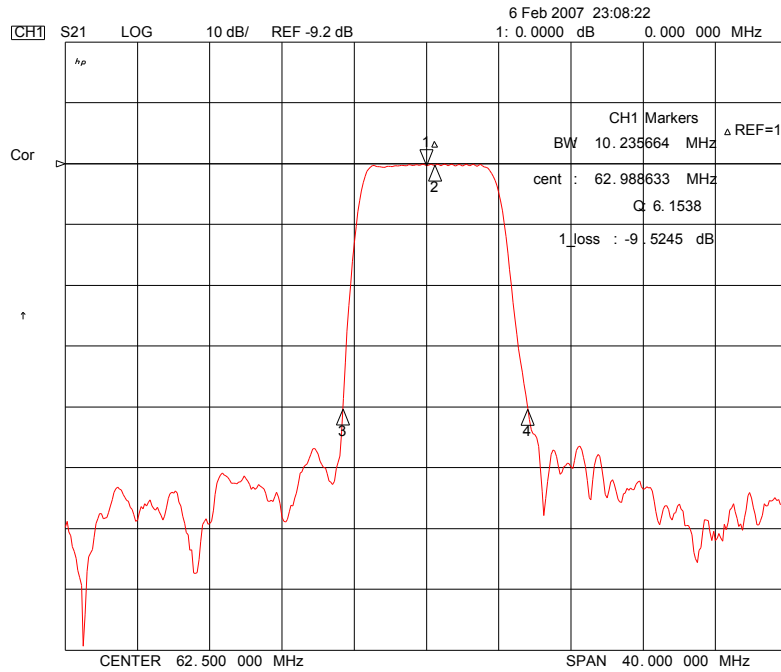
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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		Rev.	NJ7006-AS01	3/5

# Bandpass Filter 220751B

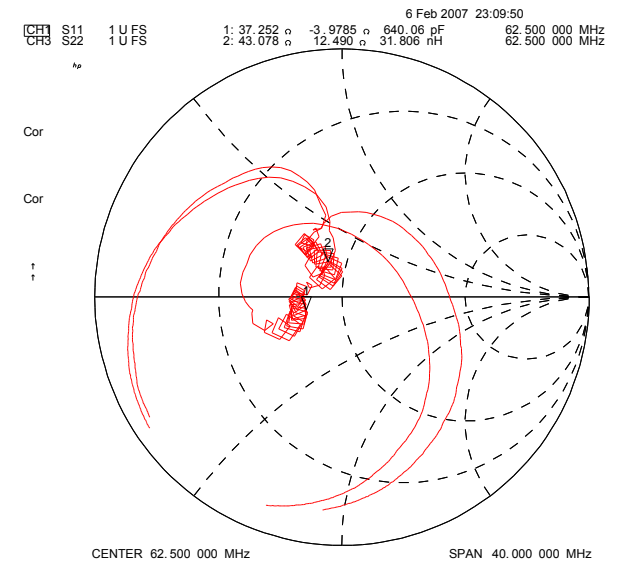
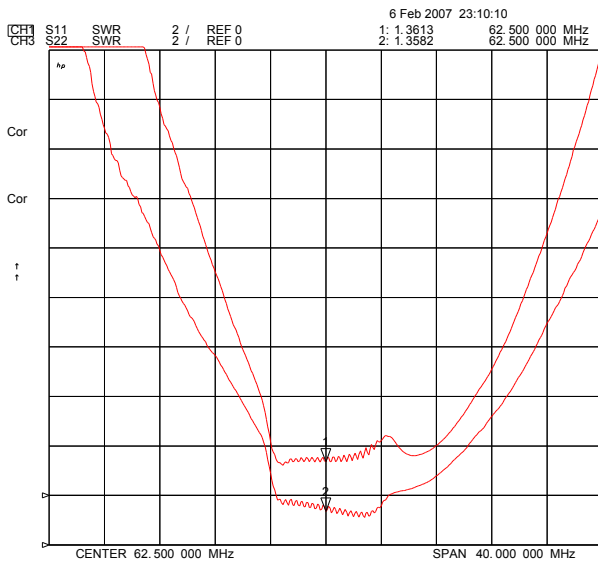
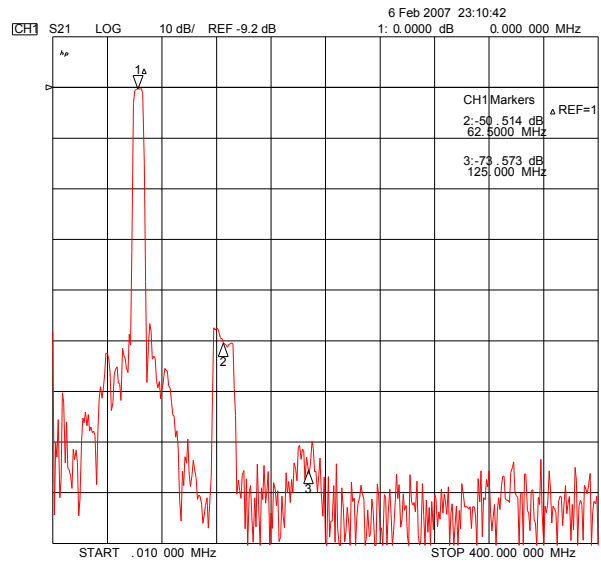
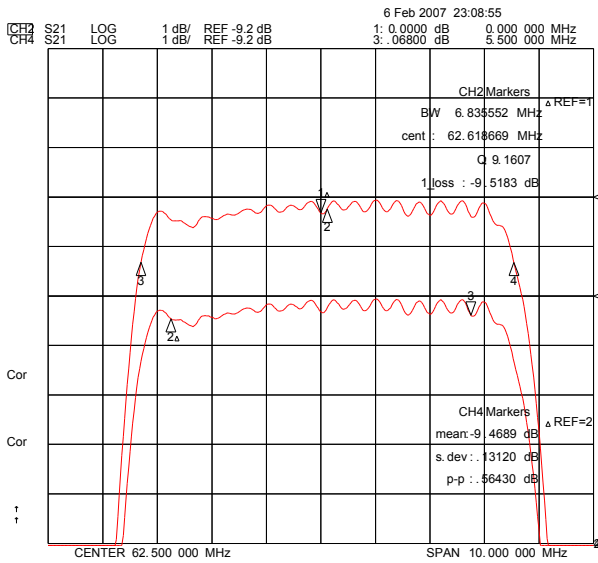


## 6. Typical Performance ( at +25°C )



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		Rev.	NJ7006-AS01	4/5

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Rev. Date	2007-05-04	
Rev.	NJ7006-AS01	5/5