

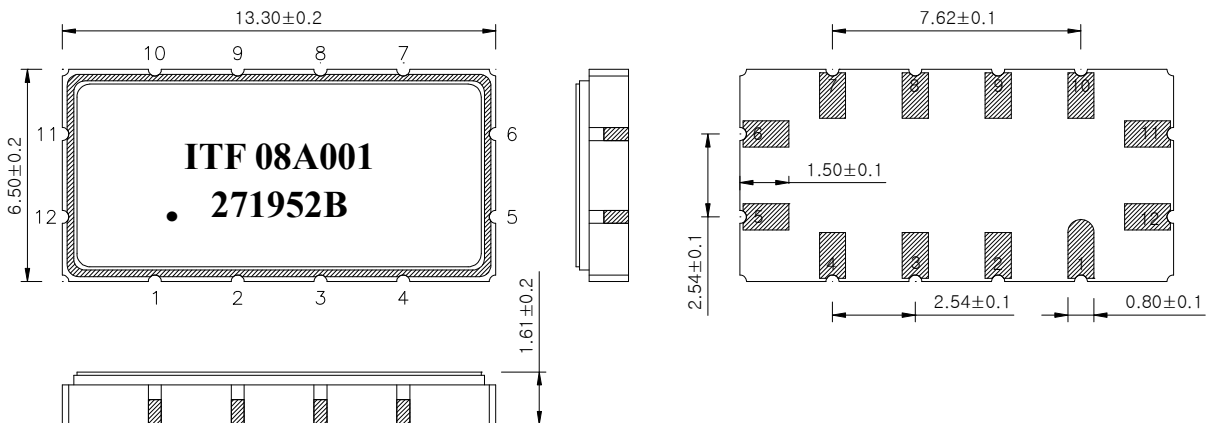
# SAW Bandpass Filter 271952B



## 1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- 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.	271952B	
		Rev. Date	2008-2-29	
		Rev.	NM7063-CS02	1/5

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## 3. Specifications

Fo = 70.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature range : +25°C		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	70.0	-
Insertion Loss	dB	-	24.5	26.0
1dB Bandwidth	MHz	-	19.43	-
3dB Bandwidth	MHz	19.8	19.9	-
40dB Bandwidth	MHz	-	21.76	22.0
Amplitude Ripple (Fo +/- 9.45 MHz)	dB	-	0.55	1.0
Group Delay Variation (Fo +/- 9.45 MHz)	nsec	-	30	60
Absolute Delay	usec	-	1.65	-
Ultimate Rejection	dB	45	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

### 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

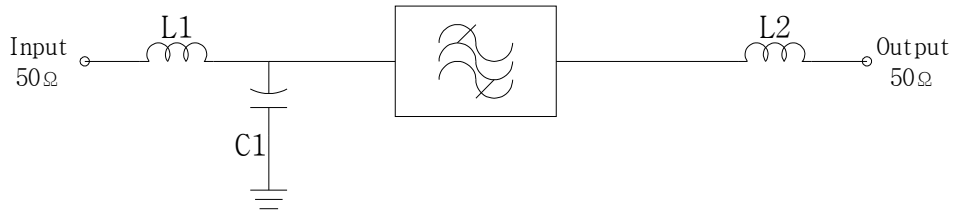
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## 4. Matching Schematic

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



L1 = 180nH, L2 = 180nH

C1 = 8 pF

## 5. Marking Configuration

ITF<sup>1)</sup> 08A001<sup>2)</sup>

271952B<sup>3)</sup>


●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

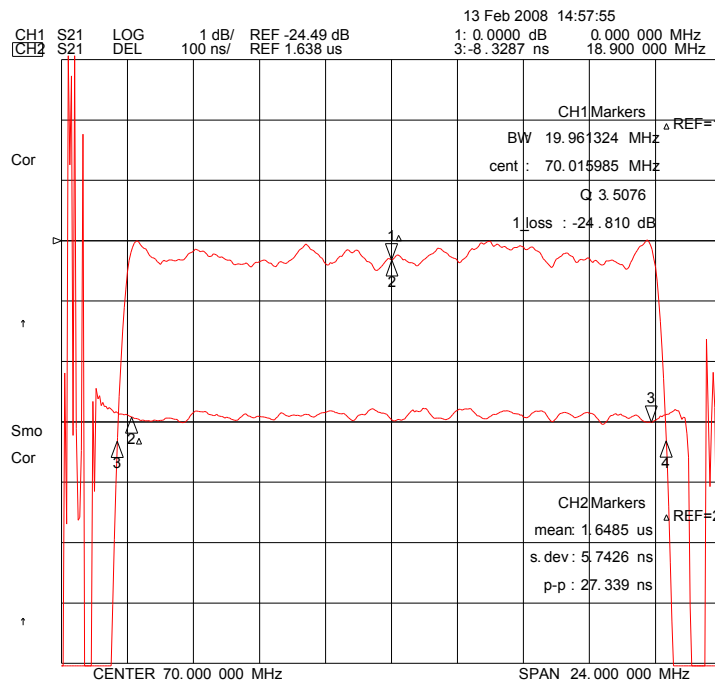
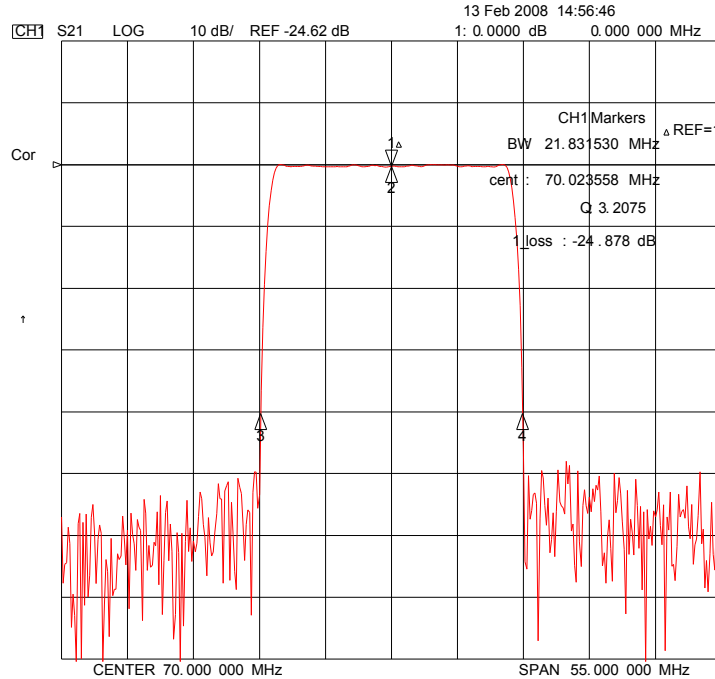
4) Pad Number 1 Index

 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.	271952B	
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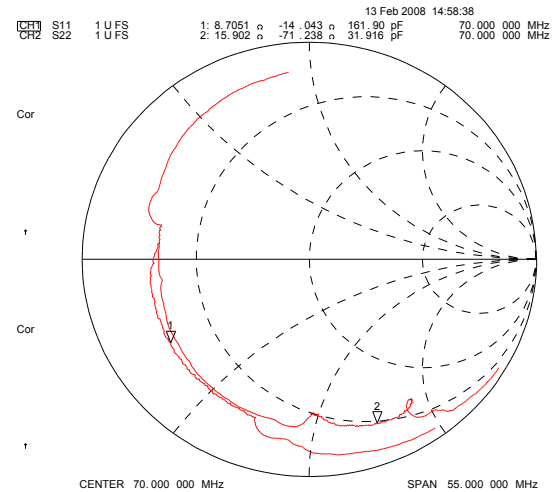
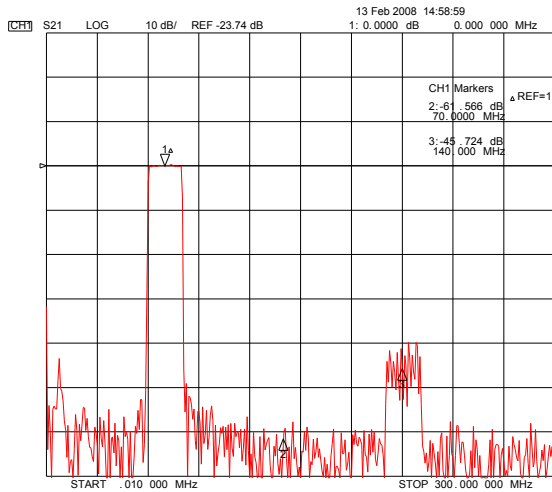
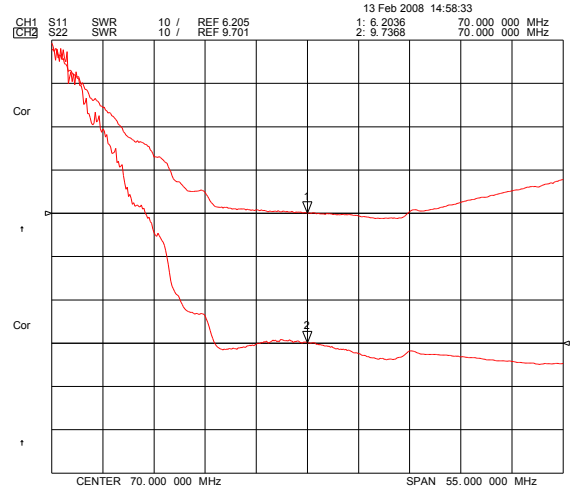
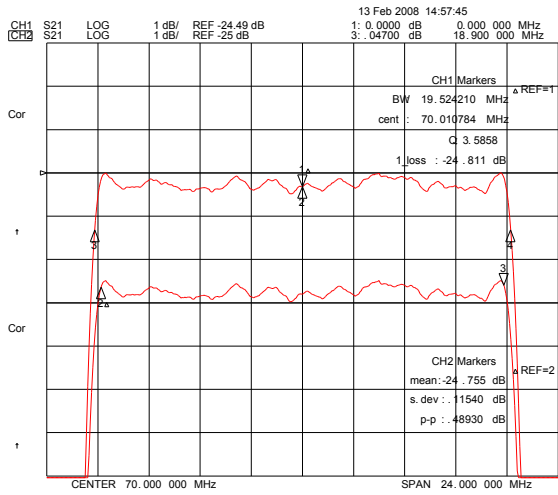


## 6. Typical Performance ( at +25°C )



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