

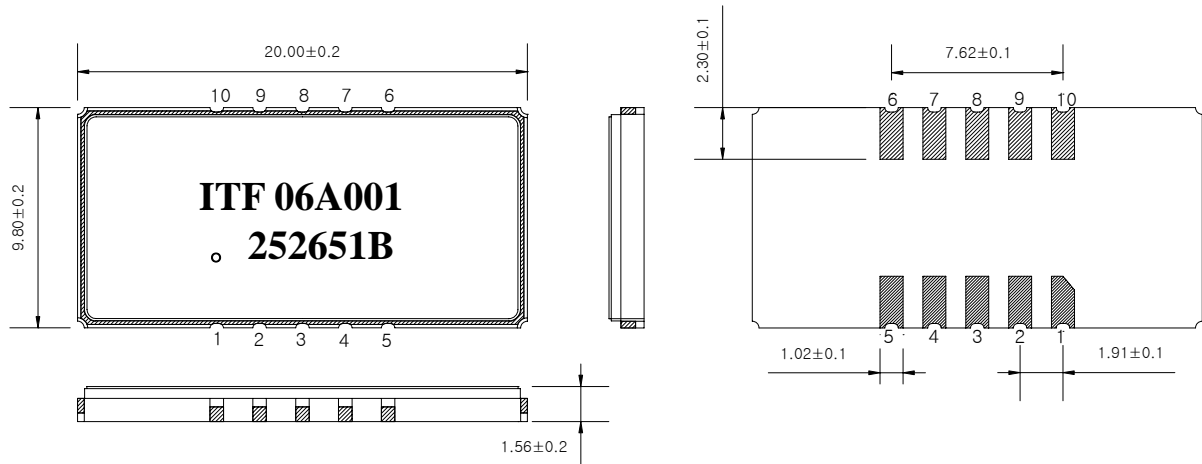
# SAW Bandpass Filter 252651B



## 1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- SMD Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimension



**Package : S2098**

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

Pin Configuration	
10	Input
5	Output
1, 4	Ground
Others	Case ground



**ITF Co., Ltd.**  
 102-901, Bucheon Technopark 364,  
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
 Gyeonggi-Do, Korea 421-809

Part No.	252651B	
Rev. Date	2006-10-09	
Rev.	NM6033-CS01	1/10

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## 3. Specifications

F<sub>0</sub> =115.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	115.0	-
Insertion Loss	dB	-	21.5	25
1dB Bandwidth	MHz	-	25.85	-
3dB Bandwidth	MHz	26.2	26.4	-
40dB Bandwidth	MHz	-	28.75	29
Amplitude Ripple (F <sub>0</sub> +/- 12.48 MHz)	dB	-	0.6	1.0
Group Delay Variation (F <sub>0</sub> +/- 12.48 MHz)	nsec	-	40	100
Absolute Delay	usec	-	1.52	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-80	-

### 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

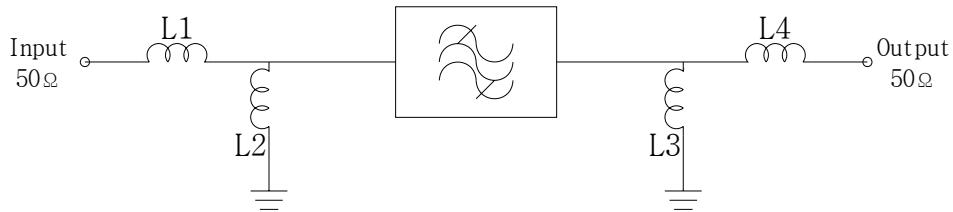
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## 4. Matching Schematic

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



L1 = 56nH, L2 = 270nH

L3 = 270nH, L4 = 56nH


## 5. Marking Configuration

ITF<sup>1)</sup> 06A001<sup>2)</sup>  
252651B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

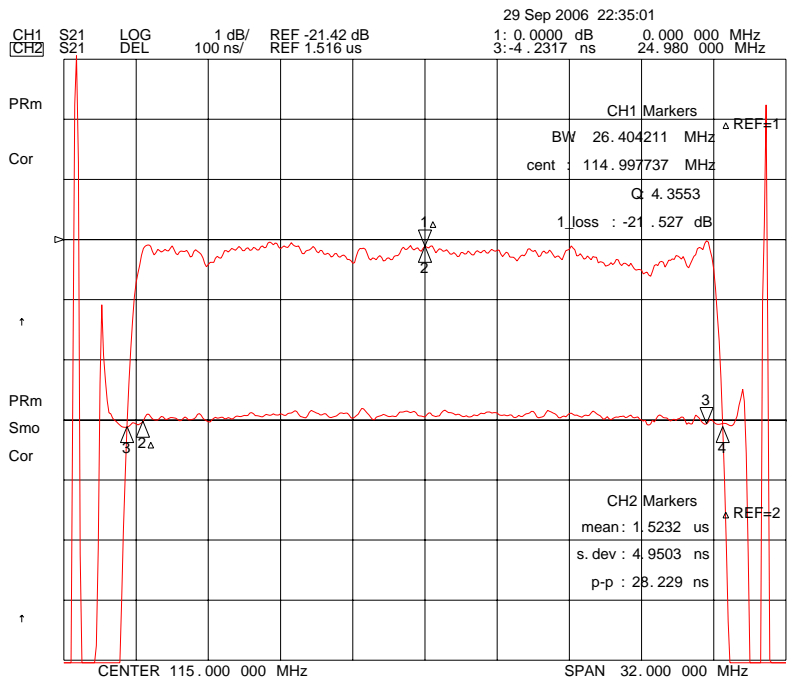
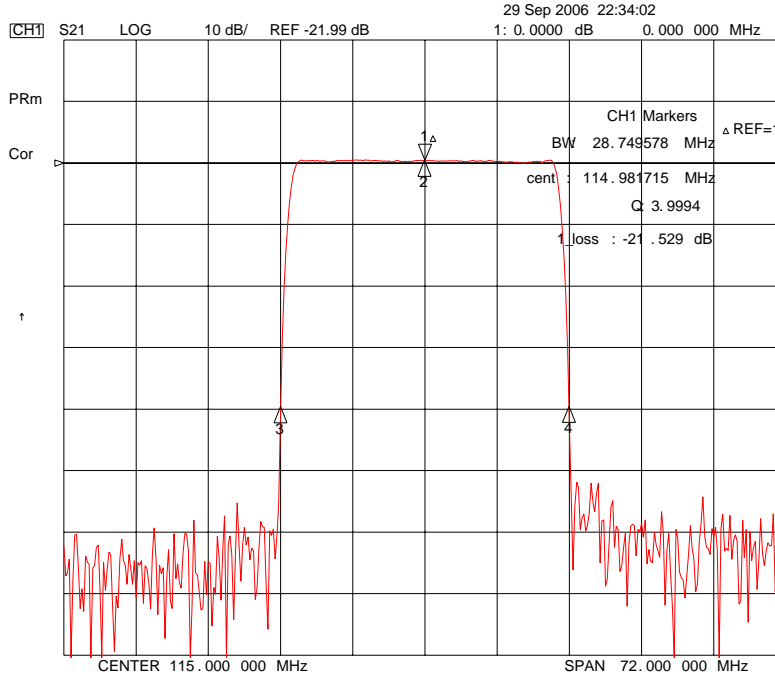
3) Part Number

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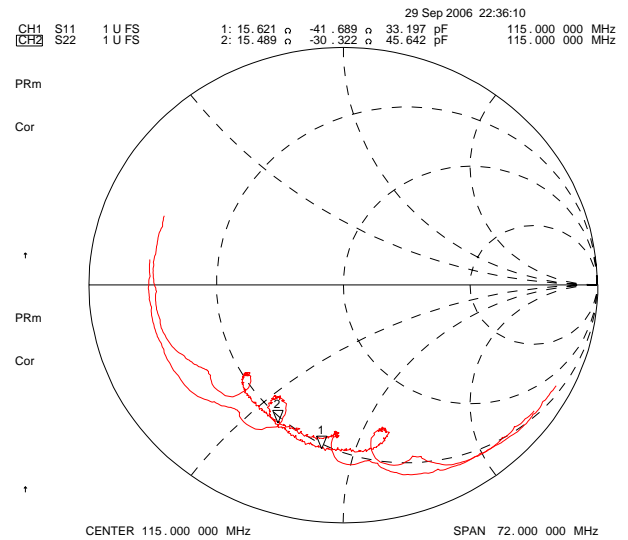
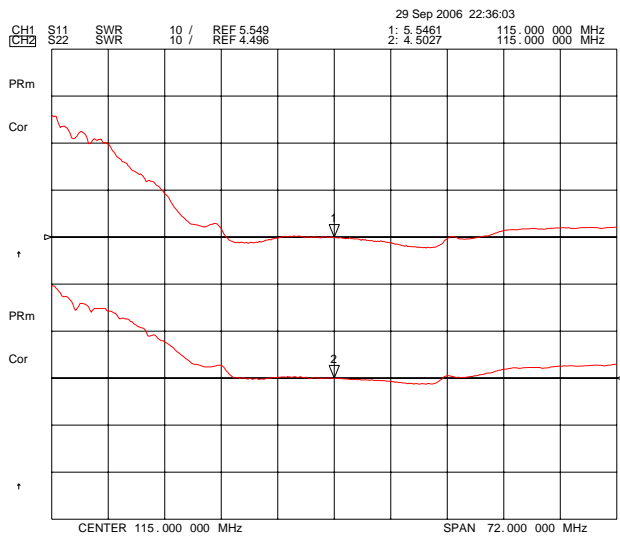
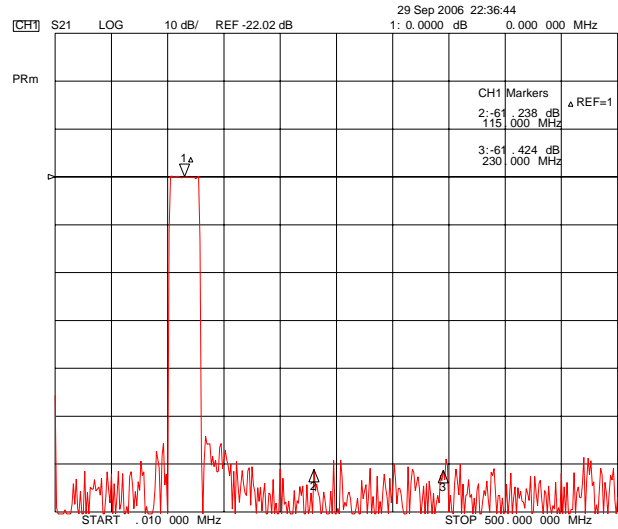
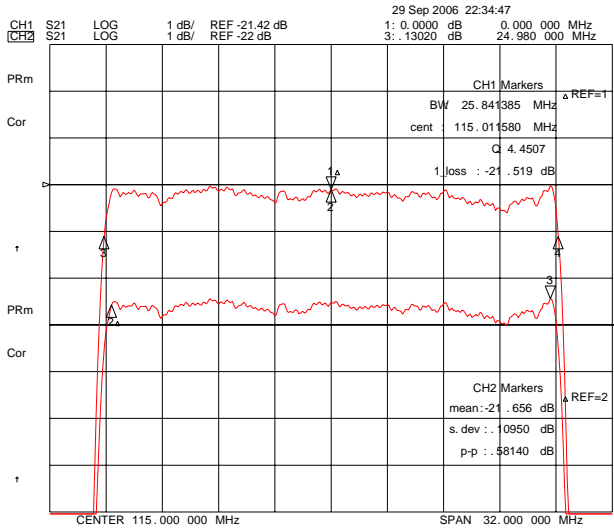
## 6. Typical Performance ( at +25°C )



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