

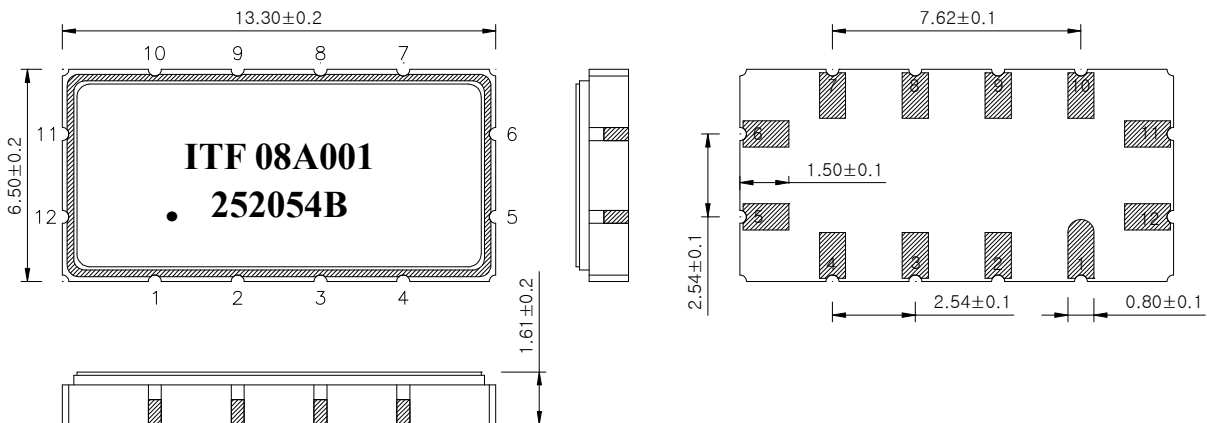
# SAW Bandpass Filter 252054B



## 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.	252054B	
		Rev. Date	2008-2-29	
		Rev.	NM7064-CS02	1/5

# SAW Bandpass Filter 252054B



## 3. Specifications

Fo = 120.0 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	-	120.0	-
Insertion Loss	dB	-	23.3	25.0
1dB Bandwidth	MHz	-	19.63	-
3dB Bandwidth	MHz	19.9	20.05	-
40dB Bandwidth	MHz	-	21.83	22.0
Amplitude Ripple (Fo +/- 9.5 MHz)	dB	-	0.53	1.0
Group Delay Variation (Fo +/- 9.5 MHz)	nsec	-	40	80
Absolute Delay	usec	-	1.57	-
Ultimate Rejection	dB	45	52	-
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

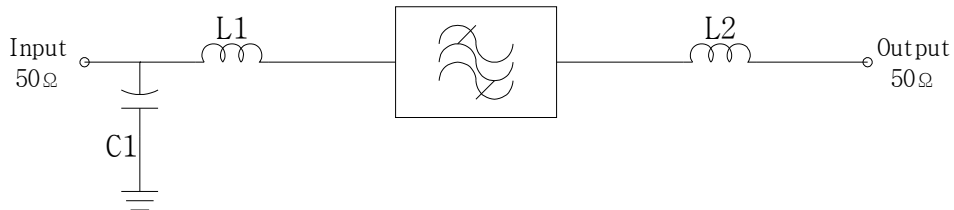
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		Rev. Date	2008-2-29	
		Rev.	NM7064-CS02	2/5

# SAW Bandpass Filter 252054B



## 4. Matching Schematic

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



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

$C1 = 36\text{ pF}$

## 5. Marking Configuration

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

252054B<sup>3)</sup>


●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

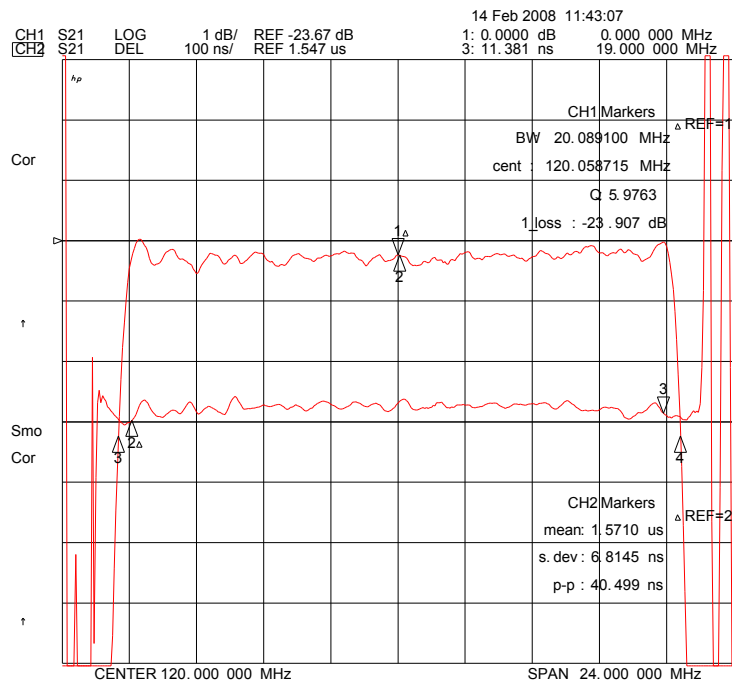
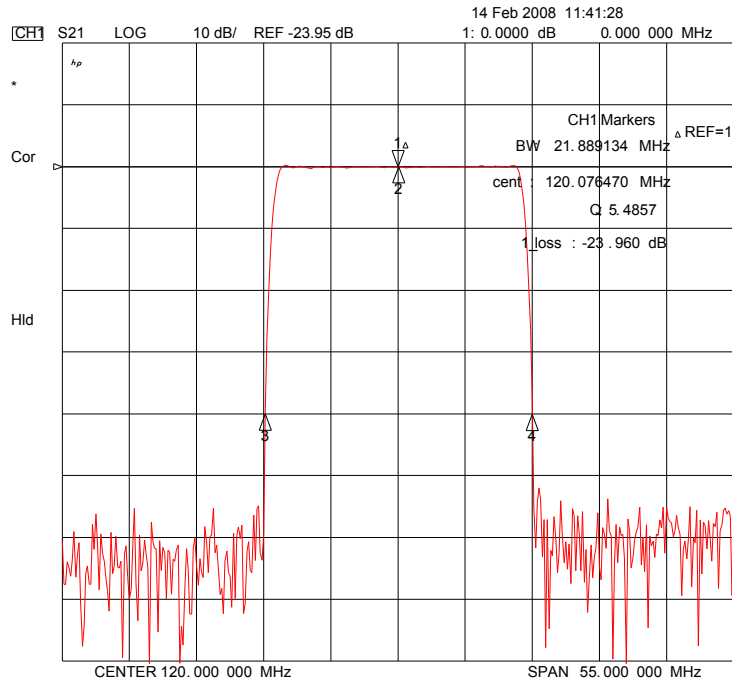
4) Pad Number 1 Index

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		Rev. Date	2008-2-29	
		Rev.	NM7064-CS02	3/5

# SAW Bandpass Filter 252054B

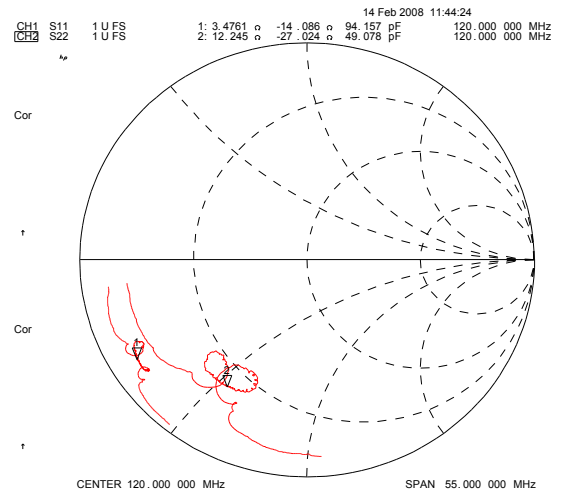
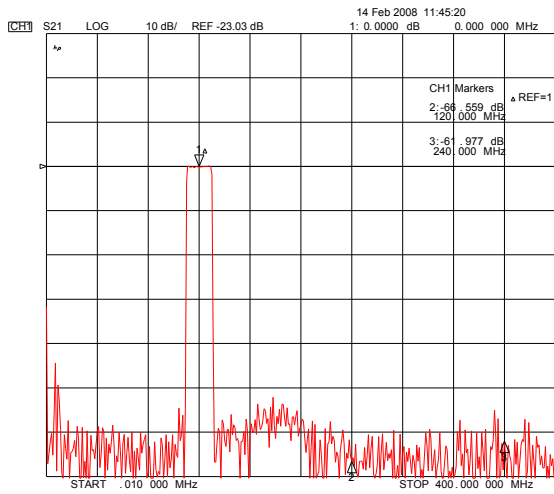
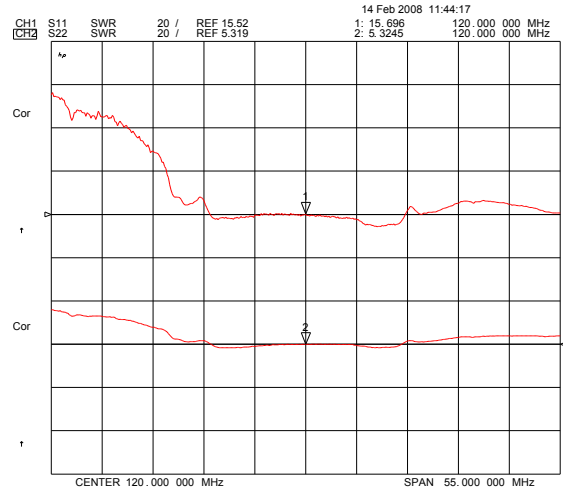
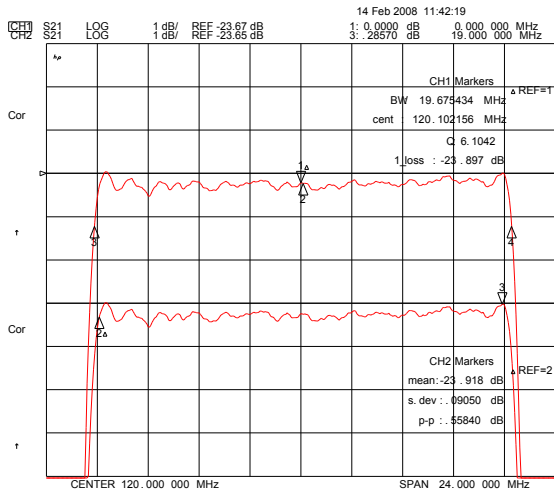


## 6. Typical Performance ( at +25°C )



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		Rev. Date	2008-2-29	
		Rev.	NM7064-CS02	4/5

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**ITF Co., Ltd.**  
 102-901, Bucheon Technopark 364,  
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
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Rev. Date	2008-2-29	
Rev.	NM7064-CS02	5/5