

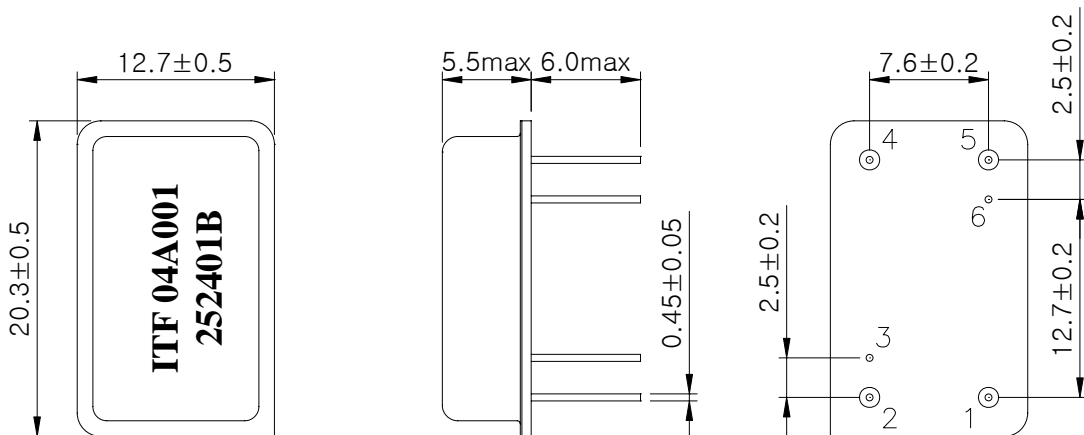
# SAW Bandpass Filter 252401B



## 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 : D2012

Dimensions shown are nominal in millimeters  
 Base : Fe(SPCC), Au plating over Ni plated  
 Cap : Cu & Cr Alloy, Ni Plated  
 Termination : Kovar, Au Plated

Pin Configuration	
1	Input
5	Output
2, 4	Ground
3, 6	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.	252401B	
		Rev. Date	2004-03-17	
		Rev.	NM4001-CS02	1/5

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## 3. Specifications

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : 20°C ~ 50°C		Minimum	Typical	Maximum
Center Frequency	MHz	192.4	192.5	192.6
Insertion Loss	dB	-	24.5	26.0
Amplitude Ripple (181.0 ~ 204.0 MHz)	dB	-	0.7	1.5
Group Delay Variation (181.0 ~ 204.0 MHz)	nsec	-	50	100
Absolute Delay	usec	-	1.95	-
Out of Band Rejection				
at 0.01 ~ 178.5 MHz	dB	40	45	-
at 206.5 ~ 600.0 MHz	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-27	-

### 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

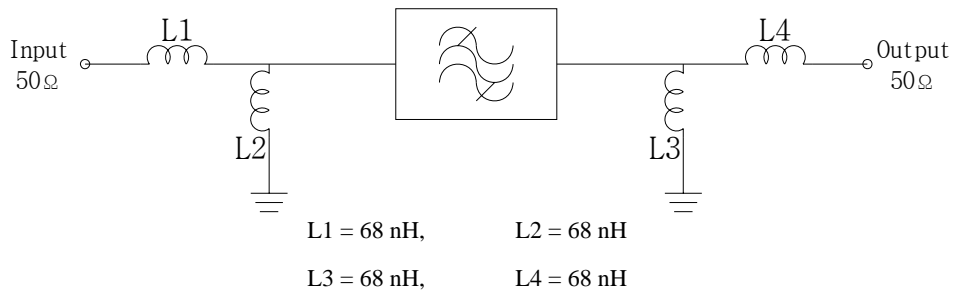
	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	252401B	
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## 4. Matching Schematic


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



## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
252401B<sup>3)</sup>

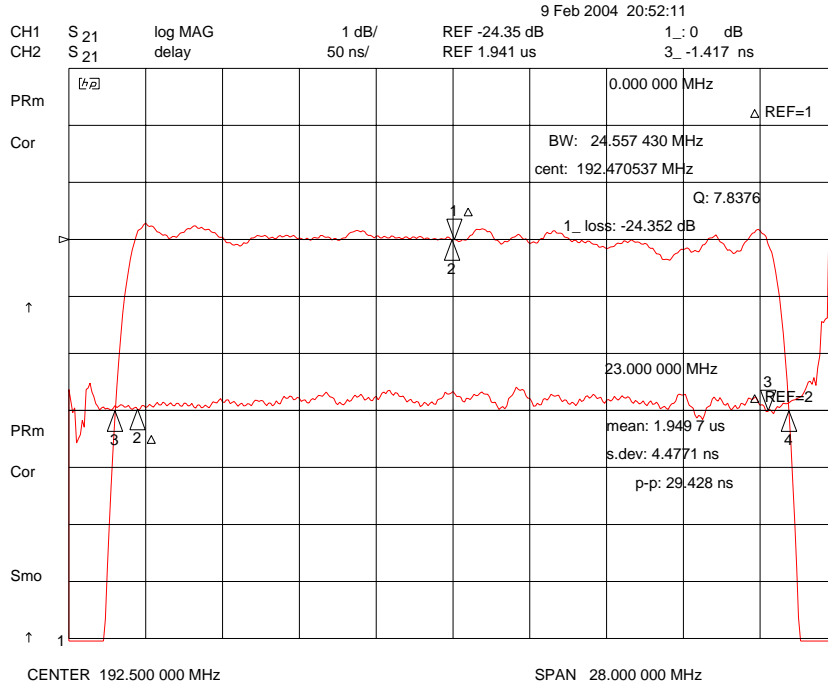
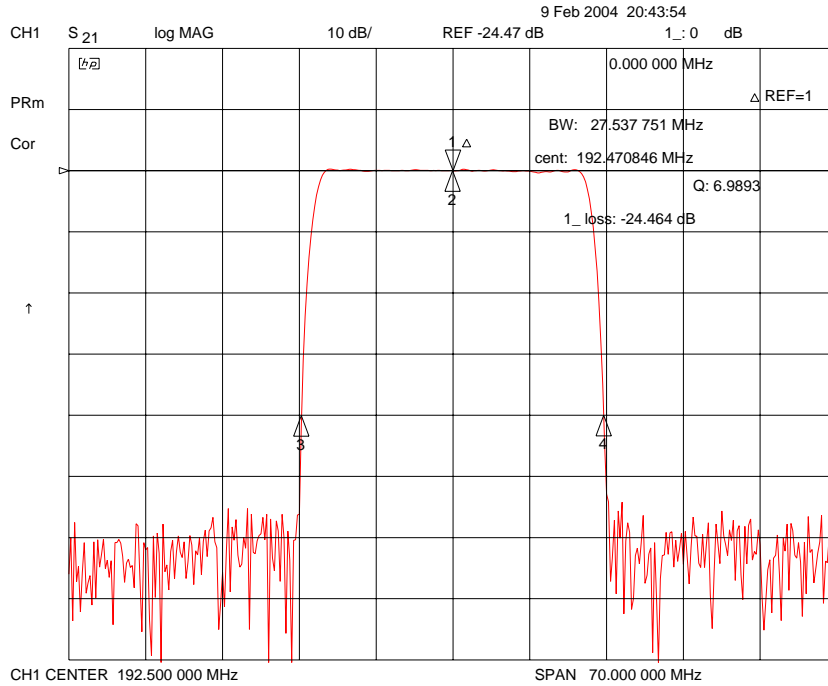
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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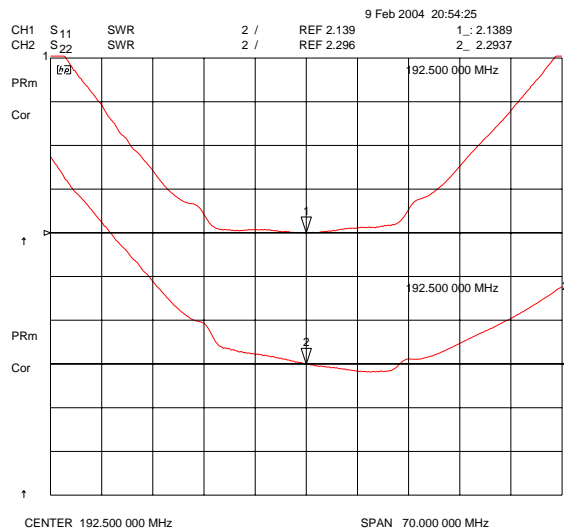
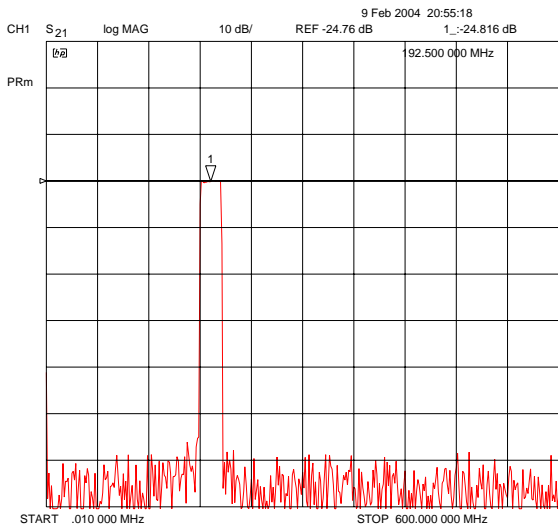
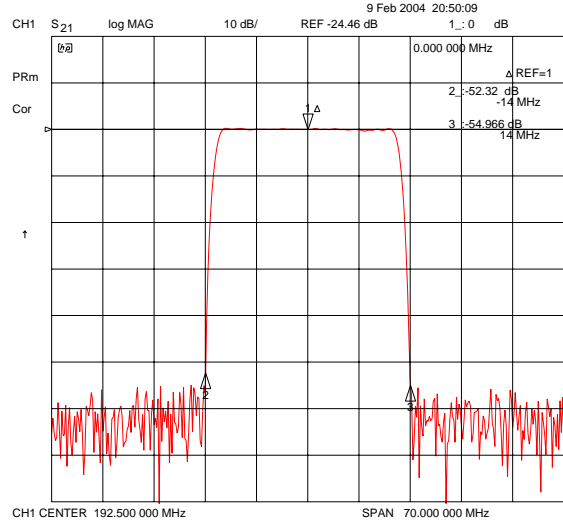
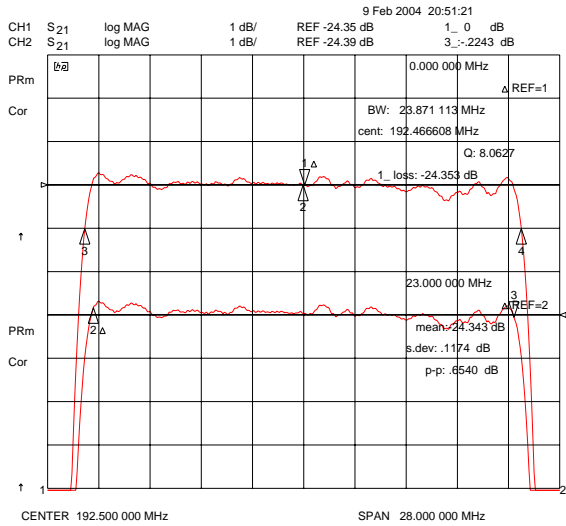
## 6. Typical Performance ( at +25°C )



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