

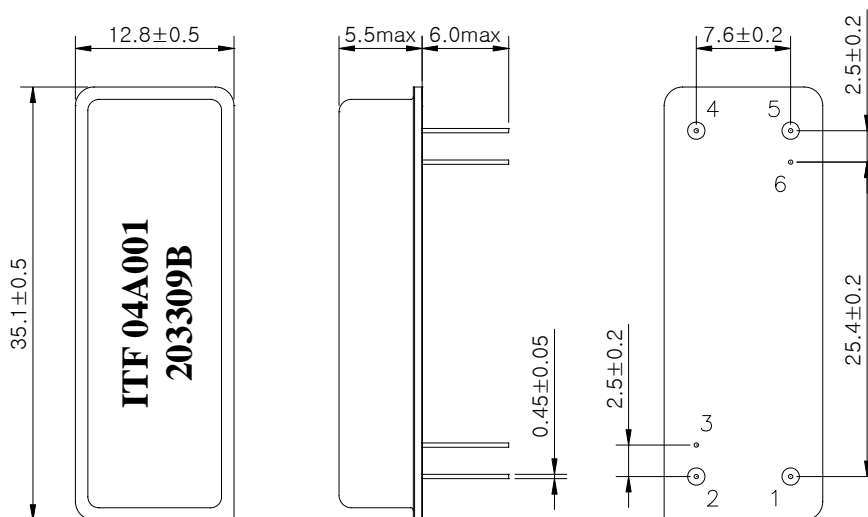
# SAW Bandpass Filter 203309B



## 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 : D3512

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

 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.	203309B	
		Rev. Date	2004-04-26	
		Rev.	NI0025-CS01	1/5

# SAW Bandpass Filter 203309B



## 3. Specifications

Fo = 76.99 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	76.96	76.99	77.02
Insertion Loss	dB	-	23.5	24.5
1dB Bandwidth	MHz	-	3.5	-
3dB Bandwidth	MHz	3.8	3.84	-
40dB Bandwidth	MHz	-	5.1	5.25
Amplitude Ripple (Fo +/- 1.55 MHz)	dB	-	1.0	1.5
Group Delay Variation (Fo +/- 1.55 MHz)	nsec	-	150	200
Absolute Delay	usec	-	2.65	-
Ultimate Rejection	dB	50	55	-
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

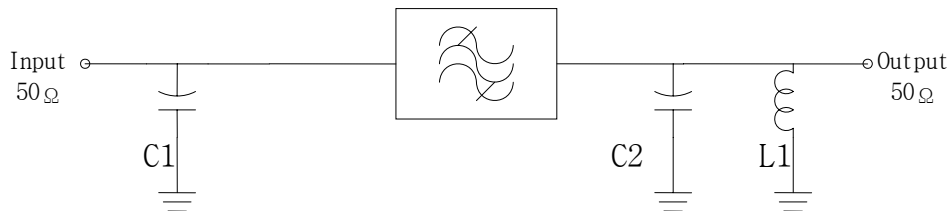
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203309B	
		Rev. Date	2004-04-26	
		Rev.	NI0025-CS01	2/5

# SAW Bandpass Filter 203309B



## 4. Matching Schematic

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




L1 = 100 nH  
C1 = C2 = 120 pF

## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
203309B<sup>3)</sup>

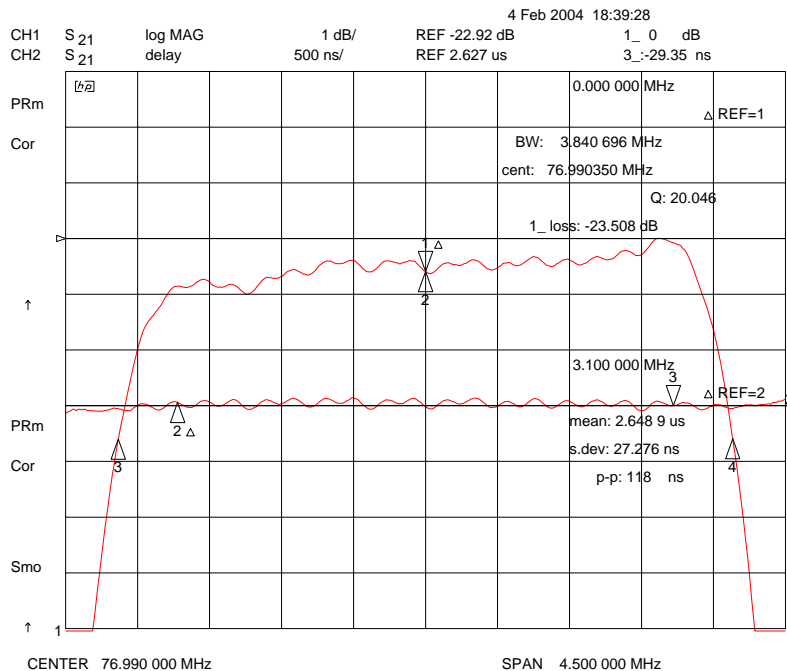
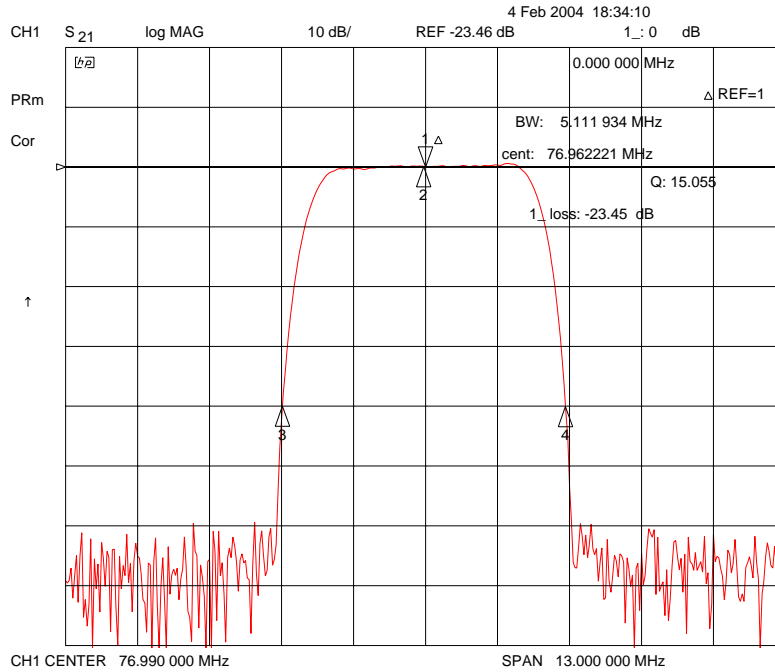
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

 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.	203309B	
		Rev. Date	2004-04-26	
		Rev.	NI0025-CS01	3/5

# SAW Bandpass Filter 203309B



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



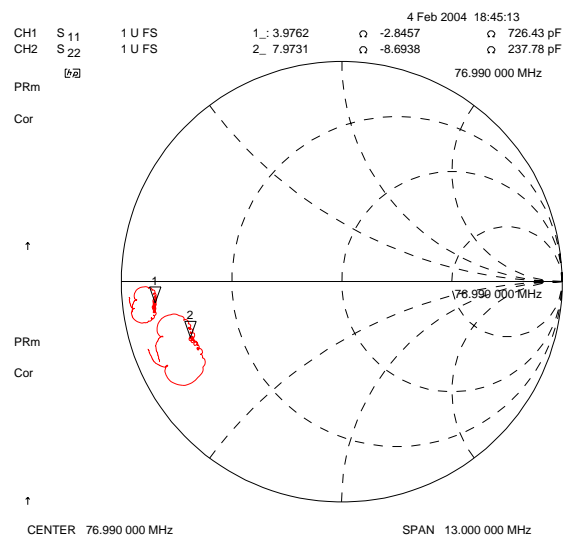
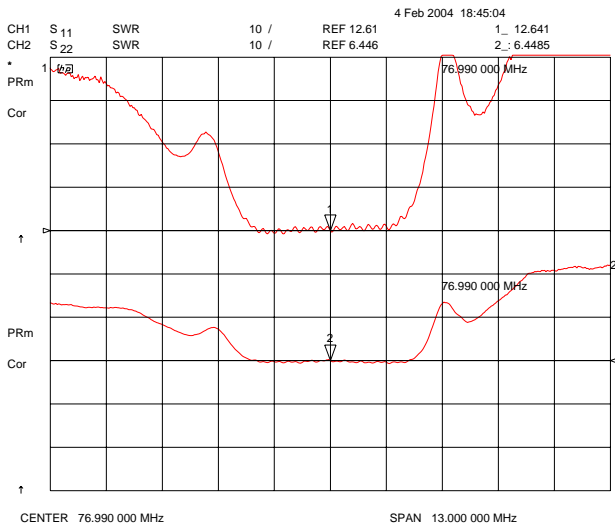
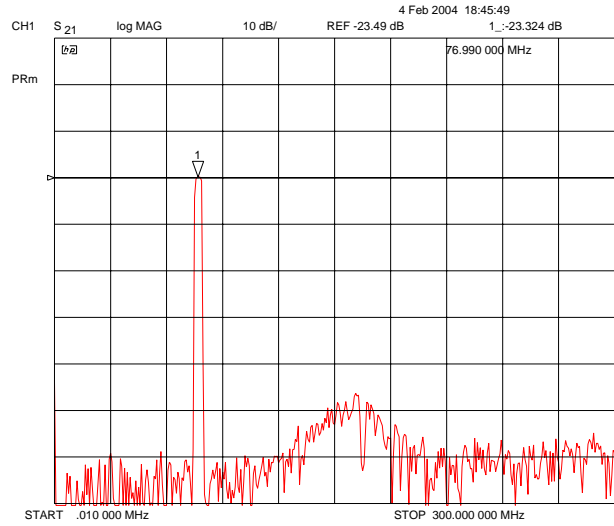
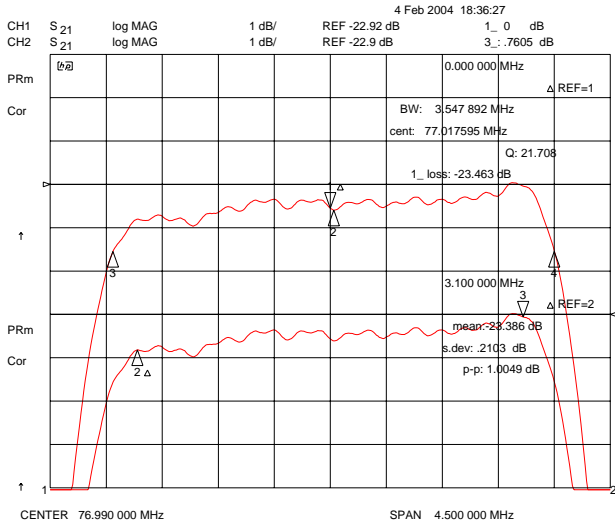
**ITF Co., Ltd.**  
102-901, Bucheon Technopark 364,  
Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
Gyeonggi-Do, Korea 421-809

Part No. 203309B

Rev. Date 2004-04-26

Rev. NI0025-CS01 4/5

# SAW Bandpass Filter 203309B



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

Part No.	203309B	
Rev. Date	2004-04-26	
Rev.	NI0025-CS01	5/5