

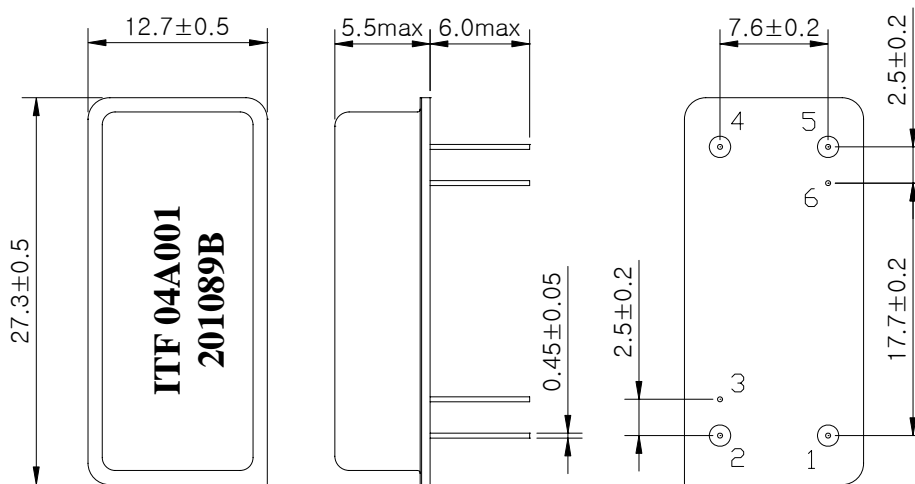
# SAW Bandpass Filter 201089B



## 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 : D2712

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
Others	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.	201089B	
		Rev. Date	2004-05-04	
		Rev.	NI0039-CS02	1/5

# SAW Bandpass Filter 201089B



## 3. Specifications

Fo = 70.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	69.95	70.0	70.05
Insertion Loss	dB	-	22.0	25.0
1dB Bandwidth	MHz	-	1.0	-
3dB Bandwidth	MHz	1.2	1.23	-
40dB Bandwidth	MHz	-	2.05	2.3
Amplitude Ripple (Fo +/- 0.3 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 0.3 MHz)	nsec	-	100	250
Absolute Delay	usec	-	2.72	-
Ultimate Rejection	dB	48	50	-
Temperature Coefficient of Frequency	ppm/°C <sup>2</sup>	-	-0.03	-

### 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

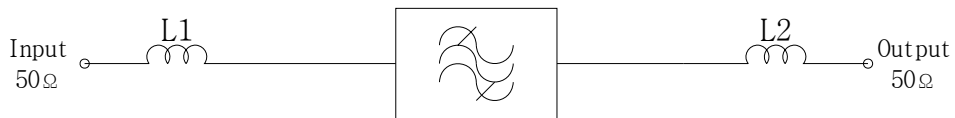
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	201089B	
		Rev. Date	2004-05-04	
		Rev.	NI0039-CS02	2/5

# SAW Bandpass Filter 201089B



## 4. Matching Schematic

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




$$L1 = L2 = 150 \text{ nH}$$

## 5. Marking Configuration

ITF<sup>1)</sup> 04A001<sup>2)</sup>  
201089B<sup>3)</sup>

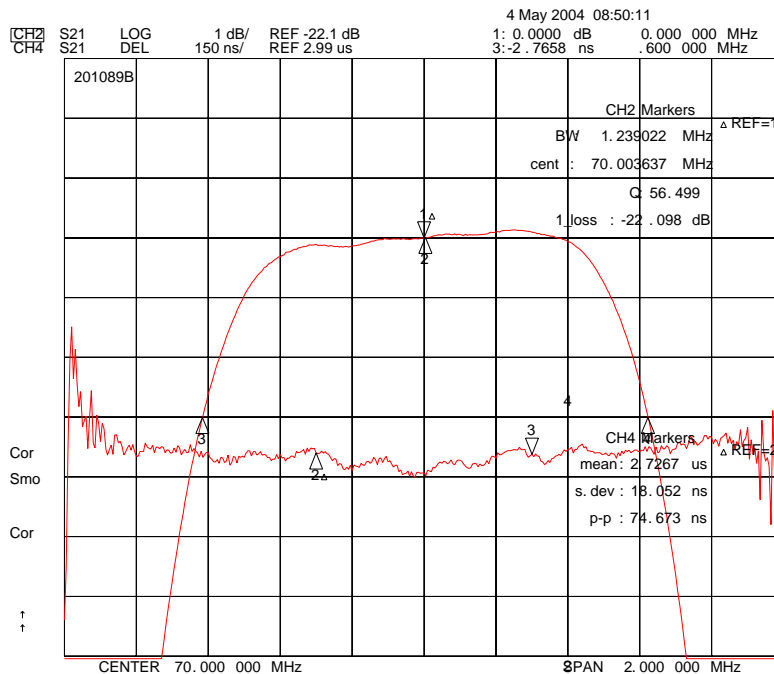
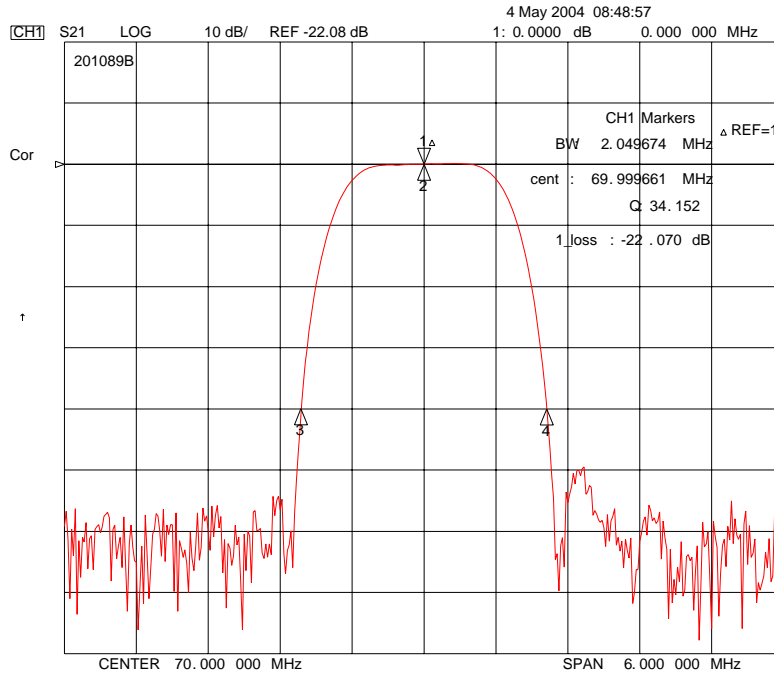
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

 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.	201089B	
		Rev. Date	2004-05-04	
		Rev.	NI0039-CS02	3/5

# SAW Bandpass Filter 201089B



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



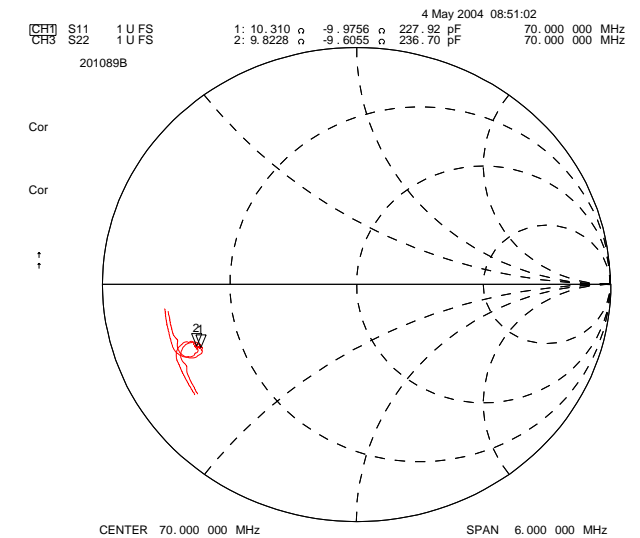
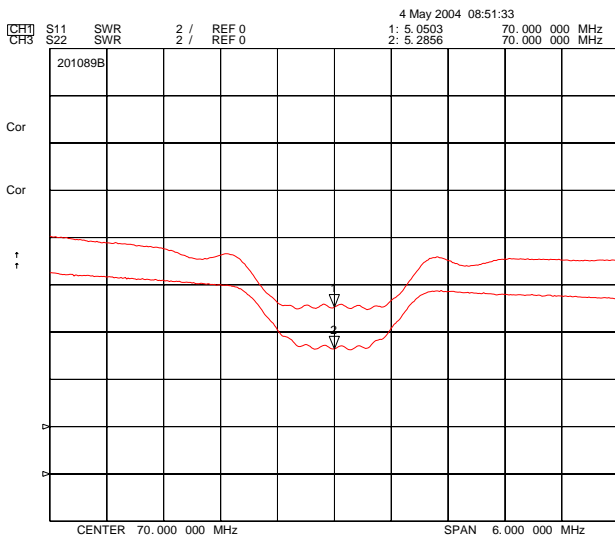
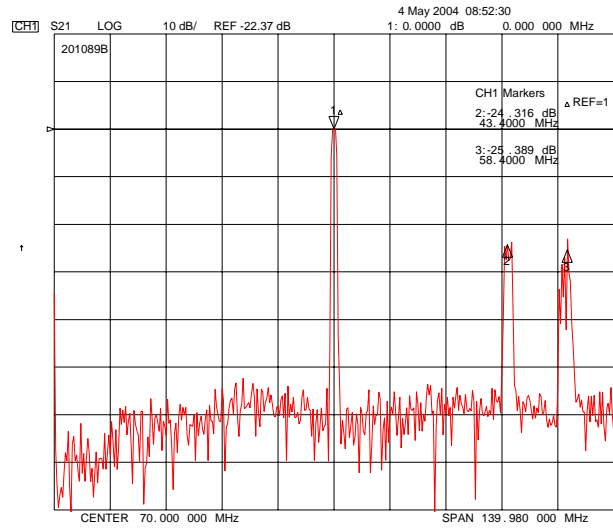
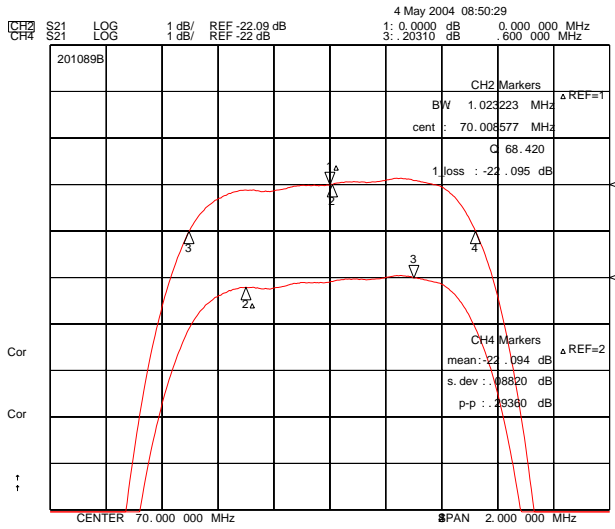
**ITF Co., Ltd.**  
 102-901, Bucheon Technopark 364,  
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
 Gyeonggi-Do, Korea 421-809

Part No. 201089B

Rev. Date 2004-05-04

Rev. NI0039-CS02 4/5

# SAW Bandpass Filter 201089B



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

Part No.	201089B	
Rev. Date	2004-05-04	
Rev.	NI0039-CS02	5/5