

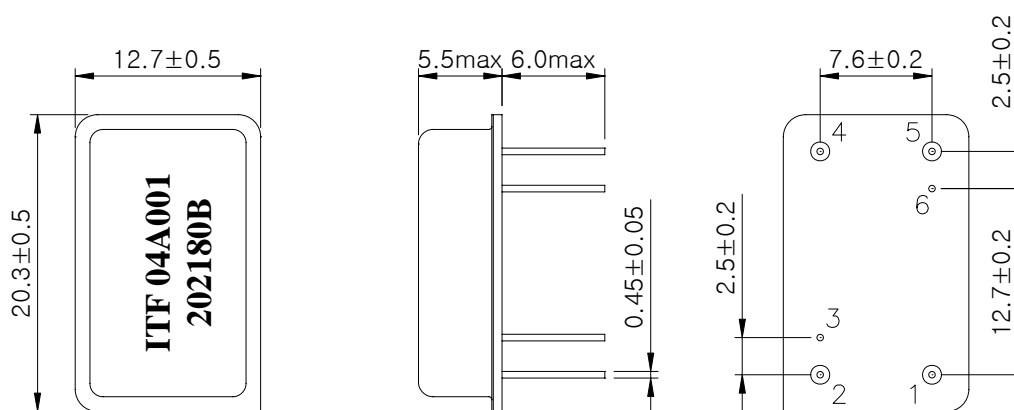
SAW Bandpass Filter 202180B



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
4	Output
2, 5	Ground
Other	Case ground

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202180B	
		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	1/5

SAW Bandpass Filter 202180B



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	-	21.0	25.0
1dB Bandwidth	MHz	-	1.0	-
3dB Bandwidth	MHz	1.2	1.23	-
40dB Bandwidth	MHz	-	2.25	2.35
Amplitude Ripple (Fo +/- 0.4 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 0.4 MHz)	nsec	-	80	150
Absolute Delay	usec	-	2.73	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-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	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202180B	
		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	2/5

SAW Bandpass Filter 202180B



4. Matching Schematic

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




$$L1 = L2 = 180 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾

202180B³⁾

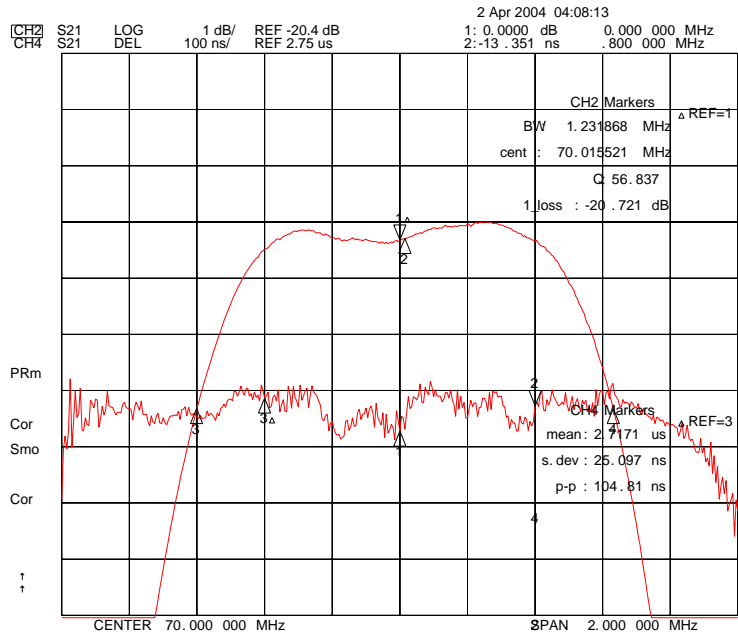
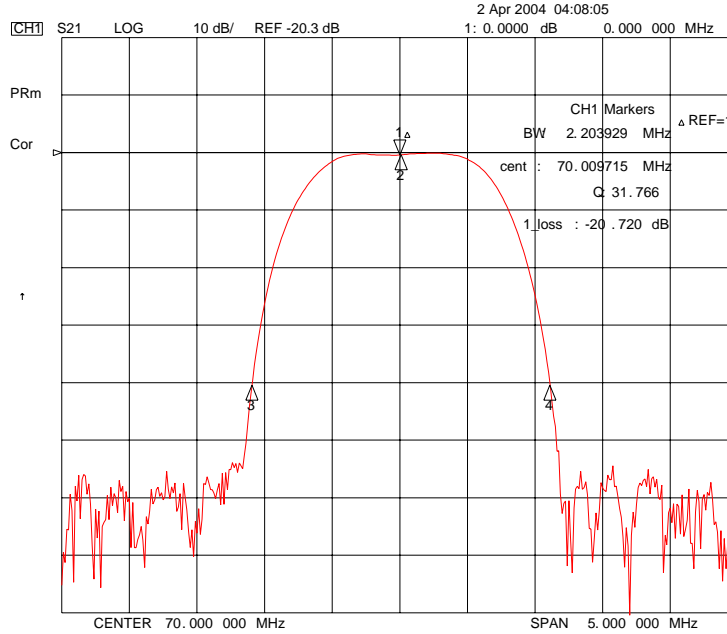
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202180B	
		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	3/5

SAW Bandpass Filter 202180B



6. Typical Performance (at +25°C)

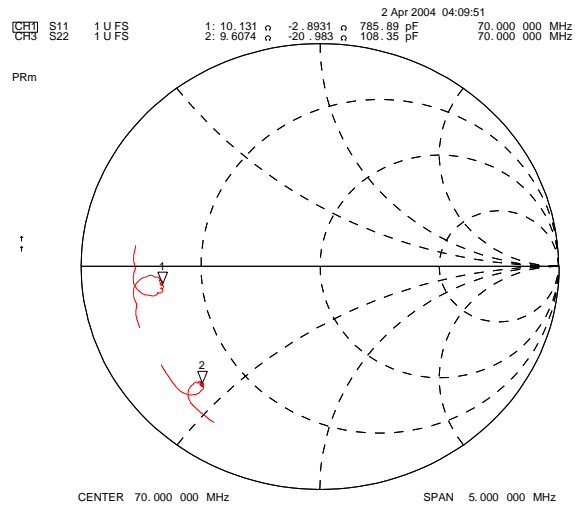
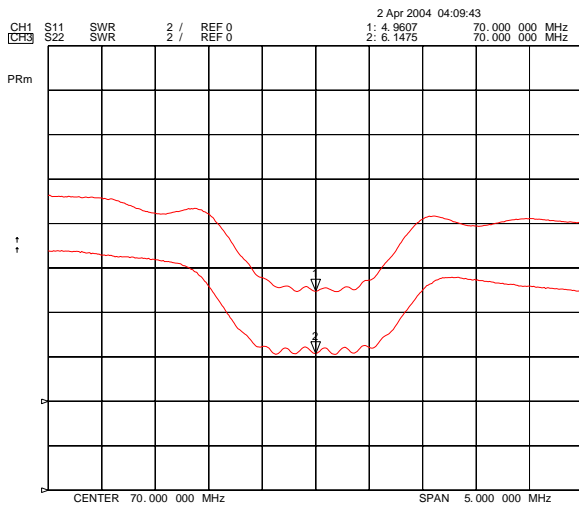
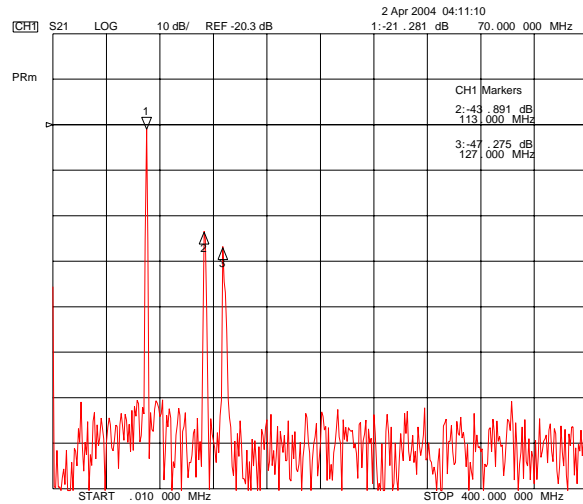
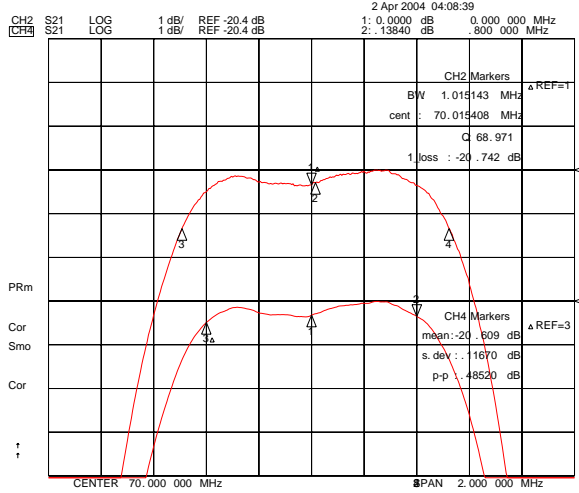


	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202180B	
		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	4/5

SAW Bandpass Filter 202180B



V



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

Part No.	202180B	
Rev. Date	2004-04-08	
Rev.	NI2035-CS02	5/5