

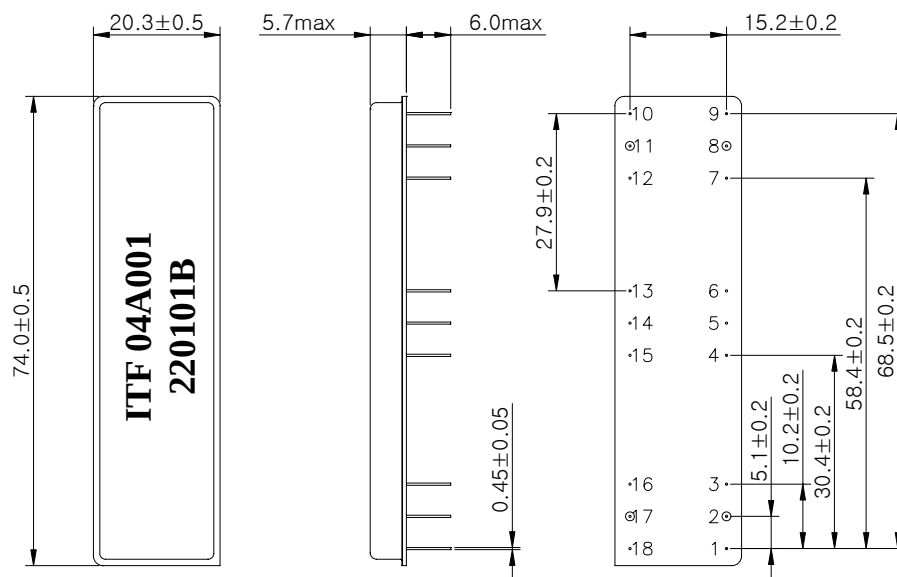
SAW Bandpass Filter 220101B



1. Features

- For CDMA Basestation Receiver
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D7420

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

8	Input
17	Output
11, 2	Ground
Others	Case ground

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	220101B	
		Rev. Date	2004-07-02	
		Rev.	DS4037-CS02	1/5

SAW Bandpass Filter 220101B



3. Specifications

Fo = 69.99 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	69.99	-
Insertion Loss	dB	-	21.6	22.5
1.5dB Bandwidth	MHz	1.26	1.28	-
35dB Bandwidth	MHz	-	1.485	1.5
Amplitude Ripple (Fo +/- 0.615 MHz)	dB	-	0.66	0.8
Group Delay Variation (Fo +/- 0.615 MHz)	nsec	-	710	1000
Absolute Delay	usec	-	10.669	-
Ultimate Rejection				
At Fo - 900 kHz	dB	50	54	-
At Fo + 900 kHz	dB	45	50	-
Temperature Coefficient of Frequency	ppm/℃ 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
- 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

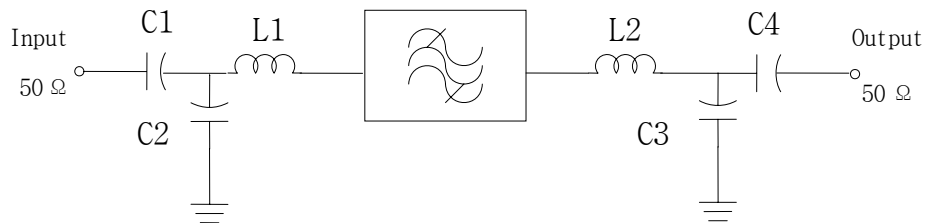
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	220101B	
		Rev. Date	2004-07-02	
		Rev.	DS4037-CS02	2/5

SAW Bandpass Filter 220101B



4. Matching Schematic

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



L1 = 100 nH, L2 = 120 nH
C1 = 200pF, C4 = 200 pF
C2 = 100 pF, C3 = 110 pF

5. Marking Configuration

ITF¹⁾ 04A001²⁾
220101B³⁾

1) Manufacturer name

2) Lot Number

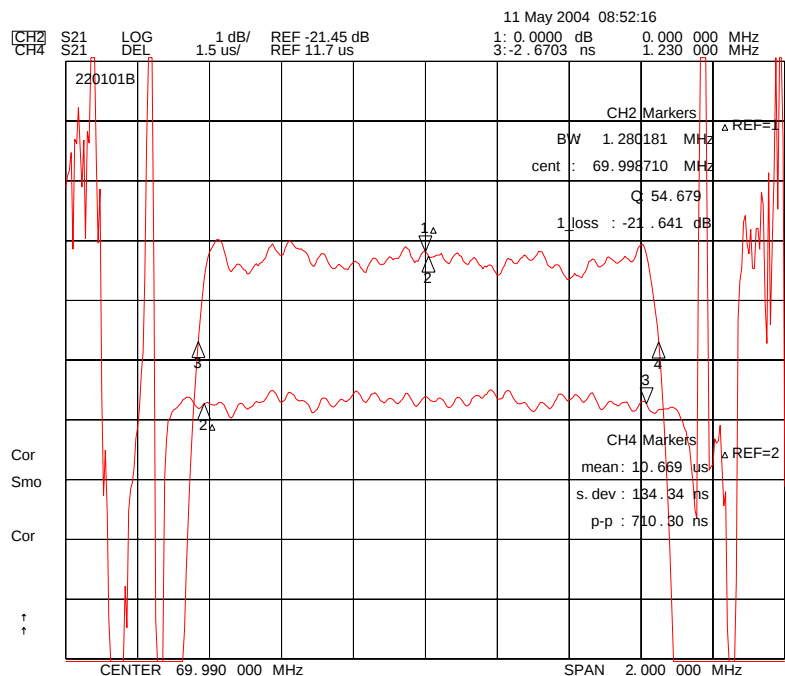
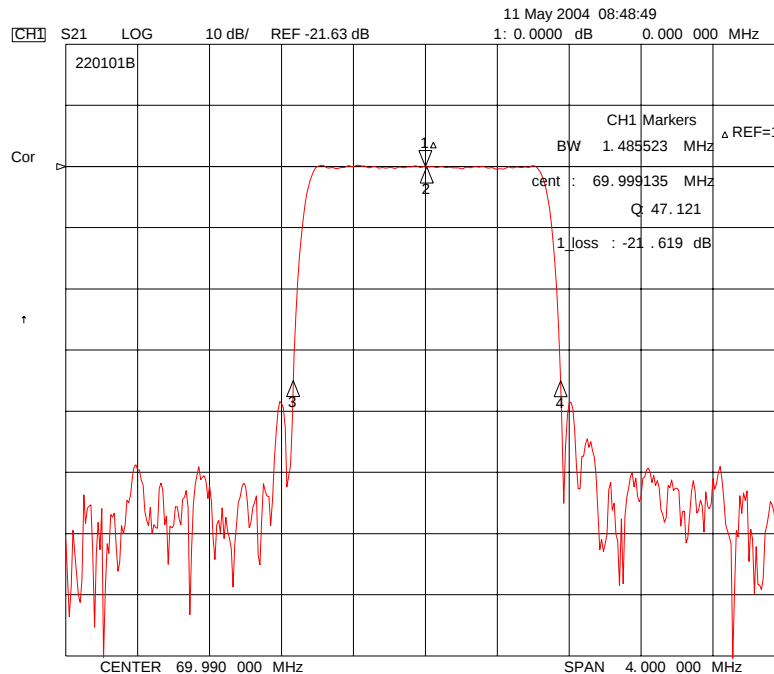
3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	220101B	
		Rev. Date	2004-07-02	
		Rev.	DS4037-CS02	3/5

SAW Bandpass Filter 220101B

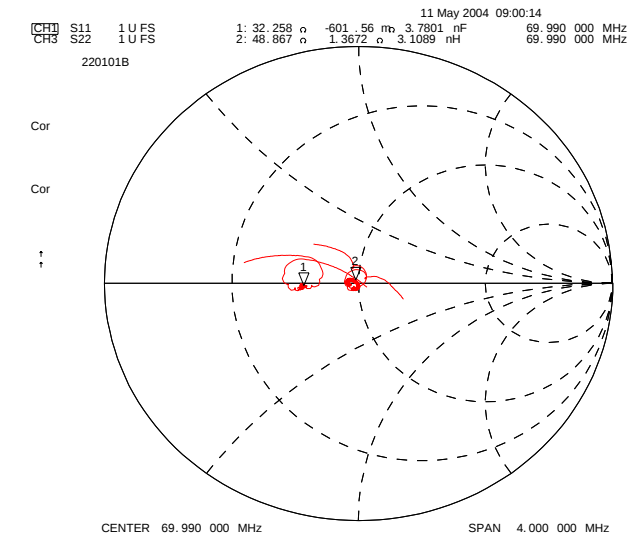
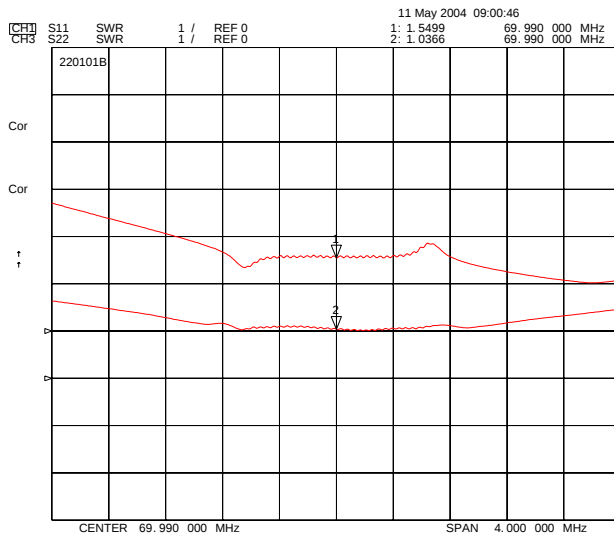
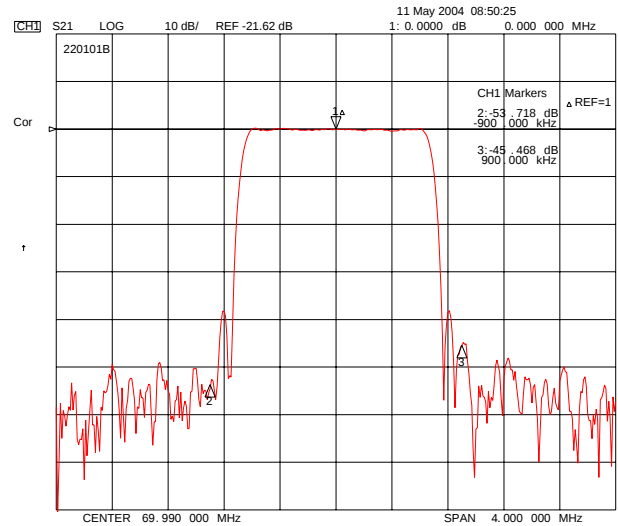
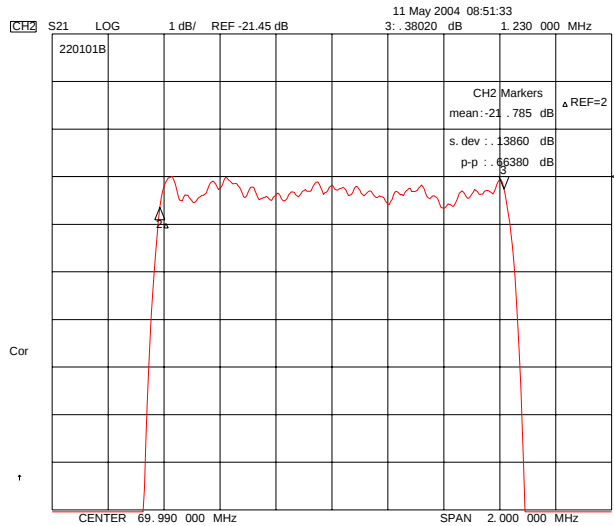


6. Typical Performance (at +25℃)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	220101B	
		Rev. Date	2004-07-02	
		Rev.	DS4037-CS02	4/5

SAW Bandpass Filter 220101B



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

Part No.

220101B

Rev. Date

2004-07-02

Rev.

DS4037-CS02

5/5