

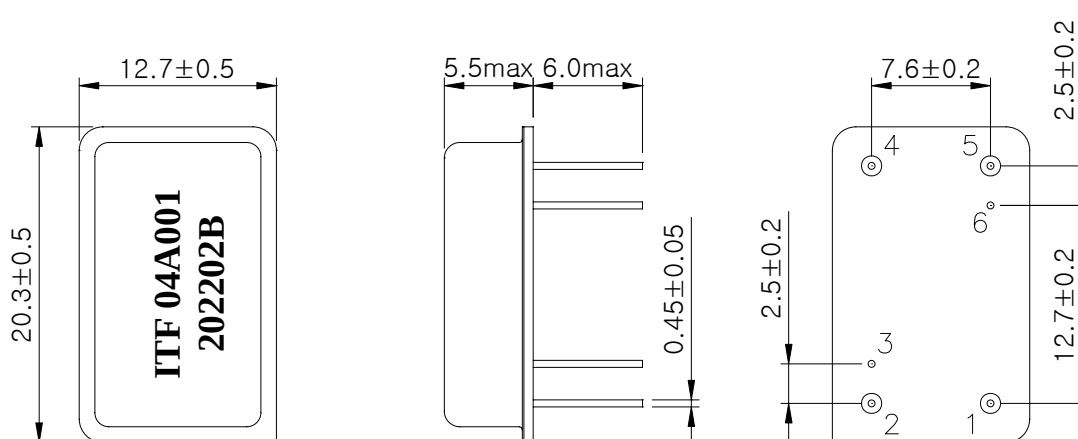
SAW Bandpass Filter 202202B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- 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

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202202B	
		Rev. Date	2004-04-02	
		Rev.	NW3011-CS02	1/5

SAW Bandpass Filter 202202B

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	69.94	70.0	70.06
Insertion Loss	dB	-	20.5	24.0
1dB Bandwidth	MHz	1.3	1.45	-
3dB Bandwidth	MHz	1.65	1.75	-
40dB Bandwidth	MHz	-	2.9	3.1
Amplitude Ripple (Fo +/- 0.6 MHz)	dB	-	0.5	0.9
Group Delay Variation (Fo +/- 0.6 MHz)	nsec	-	150	300
Absolute Delay	usec	-	2.0	-
Ultimate Rejection	dB	50	53	-
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

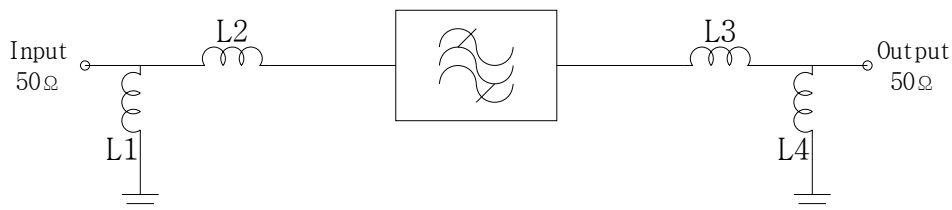
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202202B	
		Rev. Date	2004-04-02	
		Rev.	NW3011-CS02	2/5

SAW Bandpass Filter 202202B



4. Matching Schematic

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



L2 = 220 nH,

L3 = 220 nH

L1 = 180 nH,

L4 = 180 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾

202202B³⁾

1) Manufacturer name

2) Lot Number

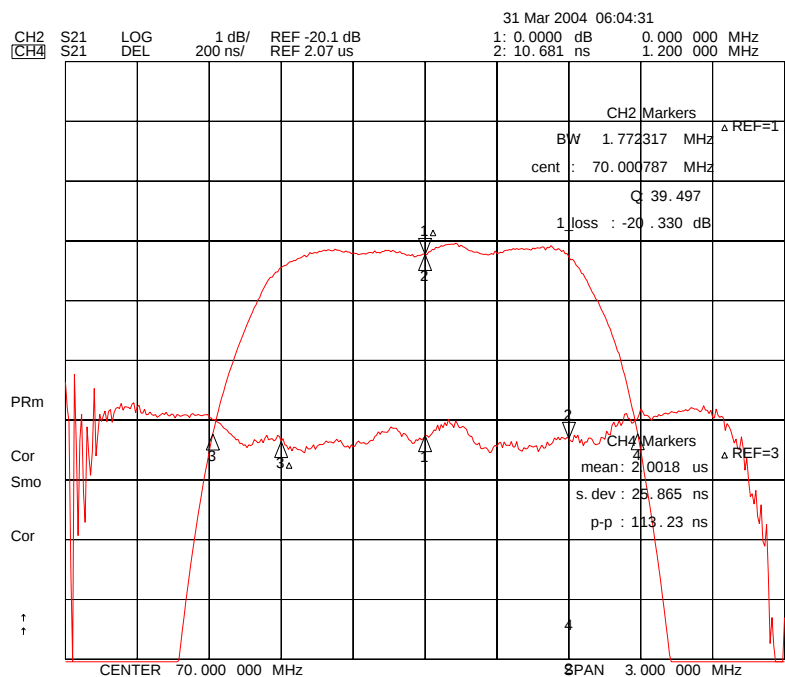
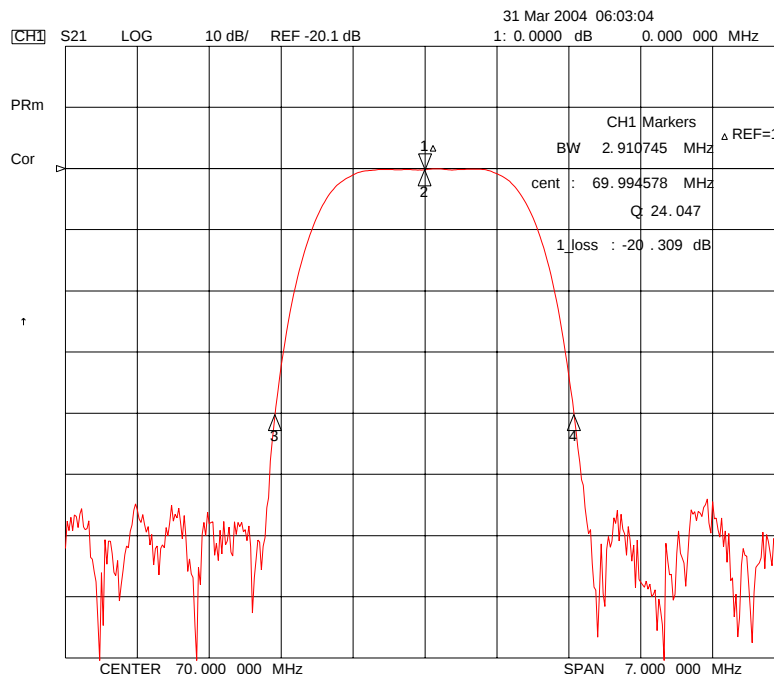
3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202202B	
		Rev. Date	2004-04-02	
		Rev.	NW3011-CS02	3/5

SAW Bandpass Filter 202202B

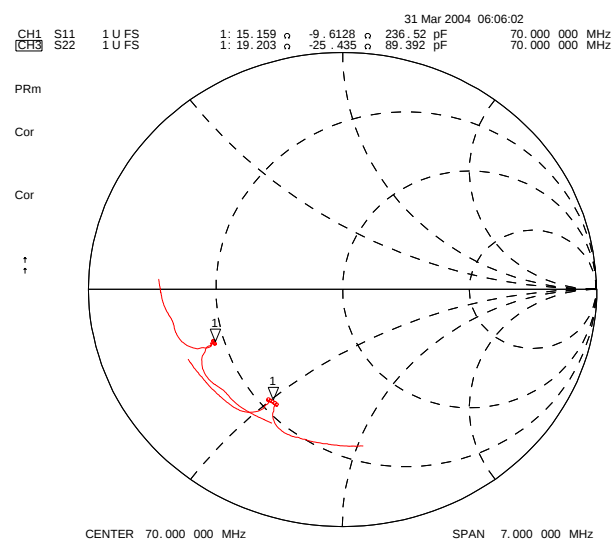
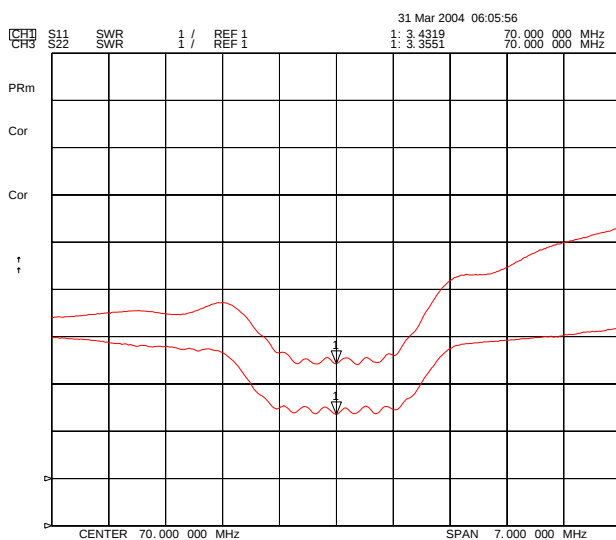
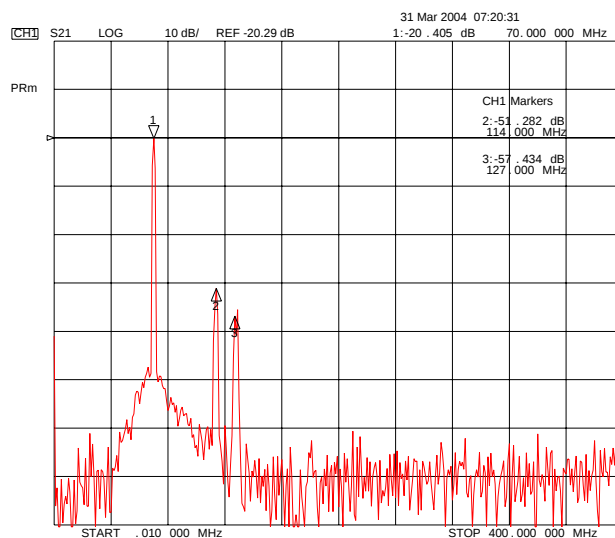
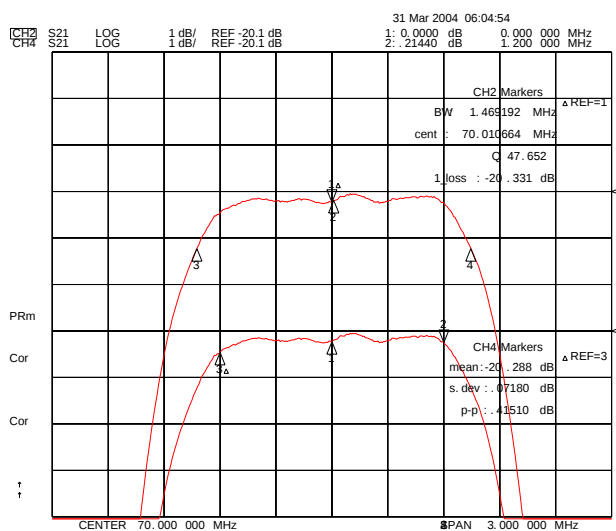


6. Typical Performance (at +25℃)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202202B	
		Rev. Date	2004-04-02	
		Rev.	NW3011-CS02	4/5

SAW Bandpass Filter 202202B



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

Part No.

202202B

Rev. Date

2004-04-02

Rev.

NW3011-CS02

5/5