

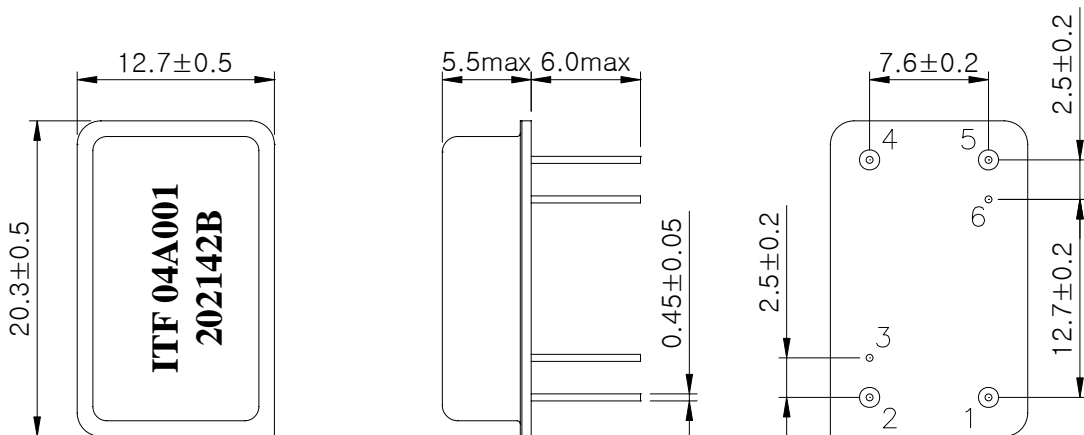
SAW Bandpass Filter 202142B



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
5	Output
2, 4	Ground
3, 6	Case ground

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202142B	
		Rev. Date	2004-04-21	
		Rev.	NI1012-CS03	1/5

SAW Bandpass Filter 202142B



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	-	23.0	25.0
1dB Bandwidth	MHz	-	9.46	-
3dB Bandwidth	MHz	9.7	9.8	-
40dB Bandwidth	MHz	-	11.2	11.5
Amplitude Ripple (Fo +/- 4.41 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 4.41 MHz)	nsec	-	60	150
Absolute Delay	usec	-	2.7	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-88	-

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

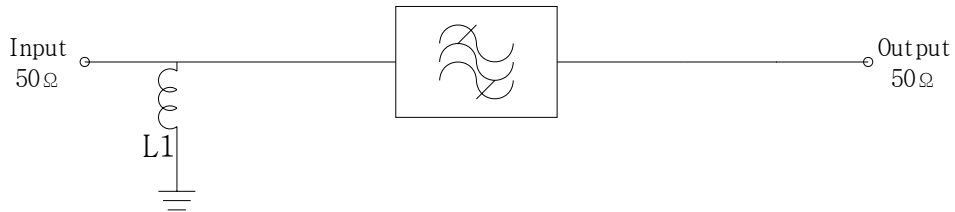
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202142B	
		Rev. Date	2004-04-21	
		Rev.	NI1012-CS03	2/5

SAW Bandpass Filter 202142B



4. Matching Schematic

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



L1 = 180 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾
202142B³⁾

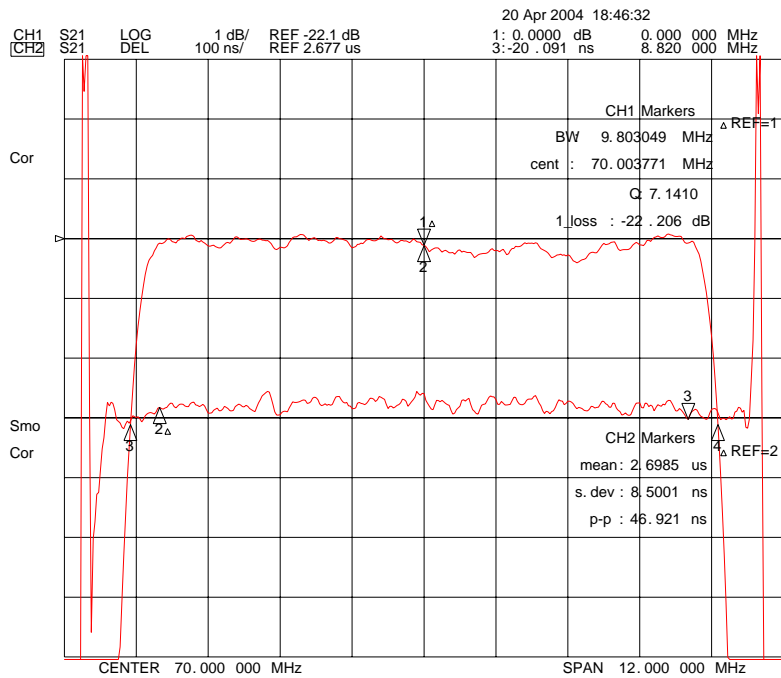
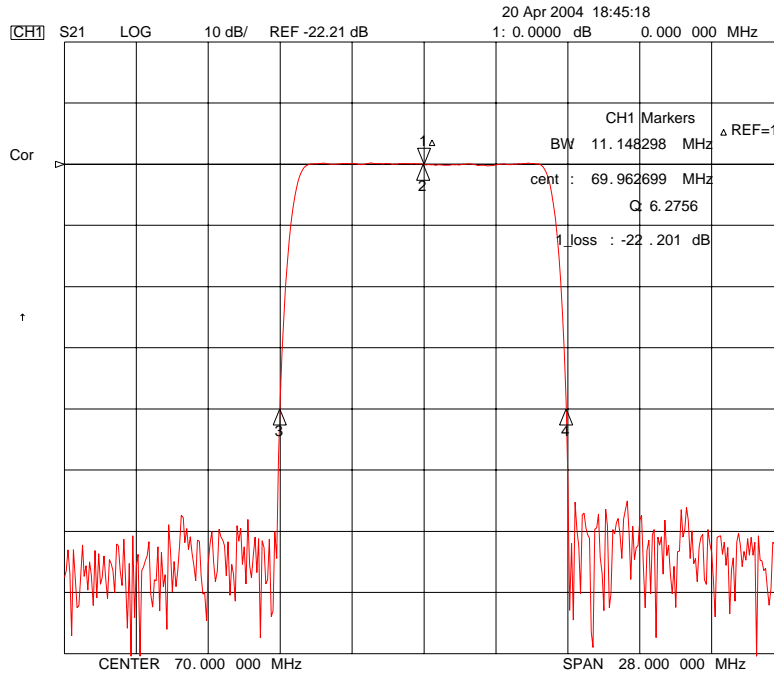
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202142B	
		Rev. Date	2004-04-21	
		Rev.	NI1012-CS03	3/5

SAW Bandpass Filter 202142B



6. Typical Performance (at +25°C)



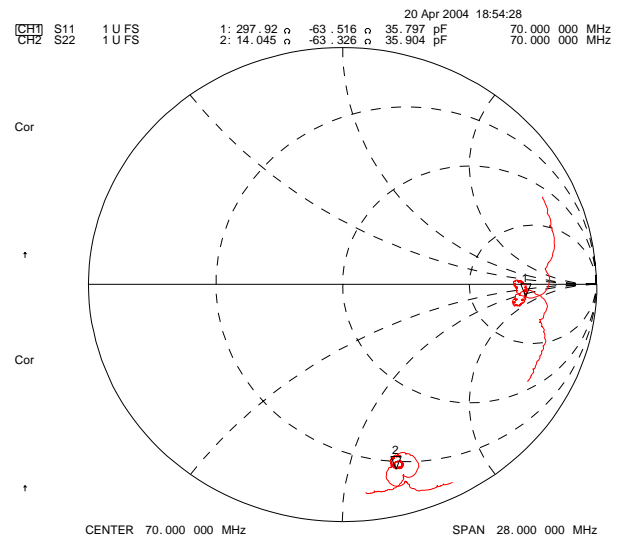
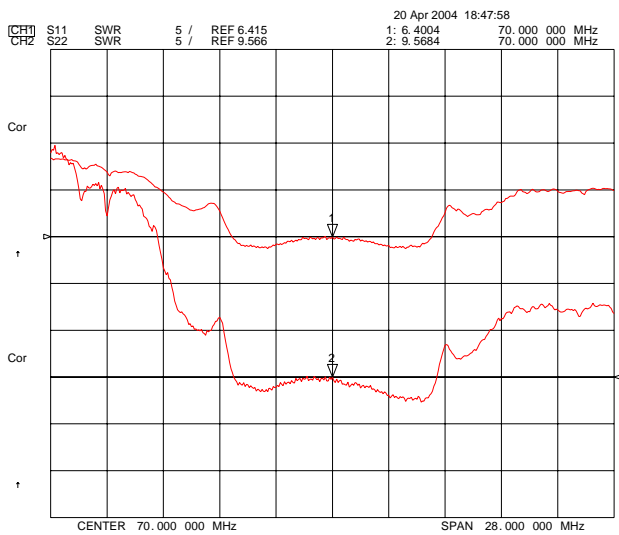
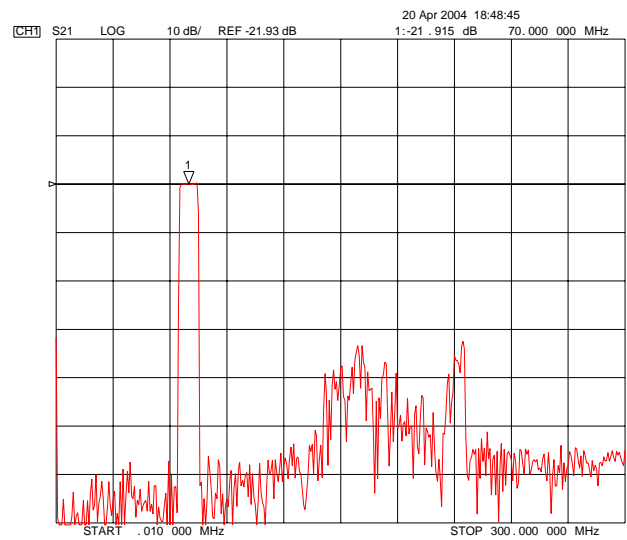
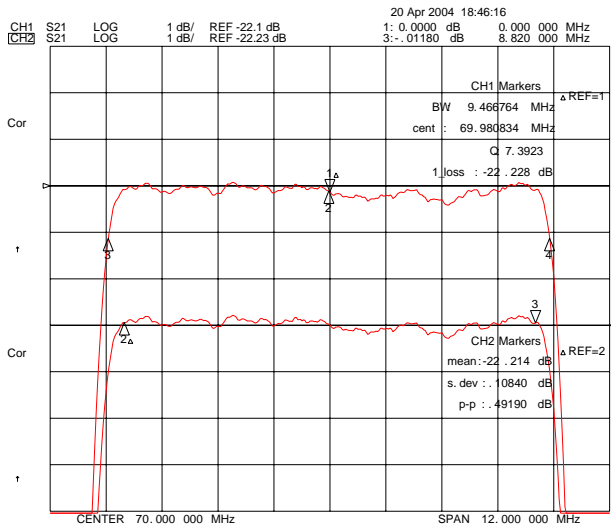
ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No. 202142B

Rev. Date 2004-04-21

Rev. NI1012-CS03 4/5

SAW Bandpass Filter 202142B



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

Part No.	202142B	
Rev. Date	2004-04-21	
Rev.	NI1012-CS03	5/5