

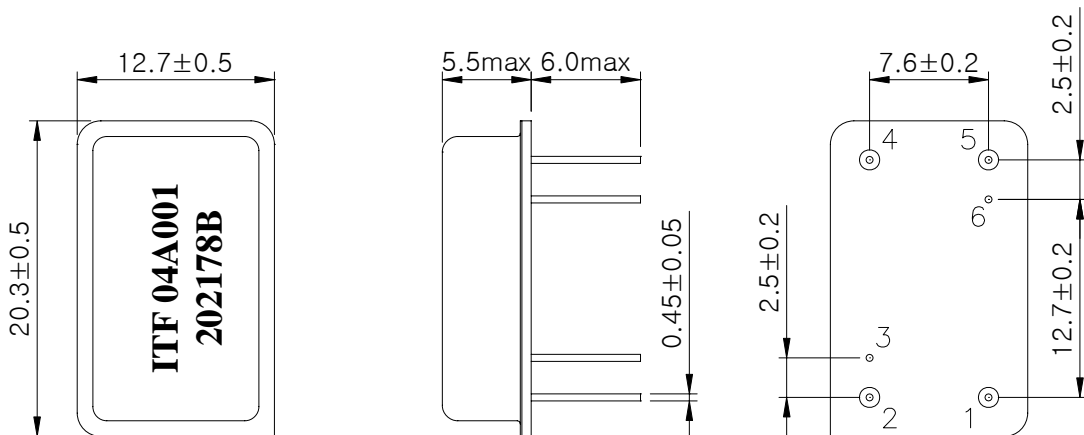
SAW Bandpass Filter 202178B



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.	202178B	
		Rev. Date	2004-06-22	
		Rev.	NI2037-CS02	1/5

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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	-	4.8	-
3dB Bandwidth	MHz	5.0	5.2	-
40dB Bandwidth	MHz	-	7.0	7.1
Amplitude Ripple (Fo +/- 2.0 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 2.0 MHz)	nsec	-	40	100
Absolute Delay	usec	-	3.08	3.1
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-23	-

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

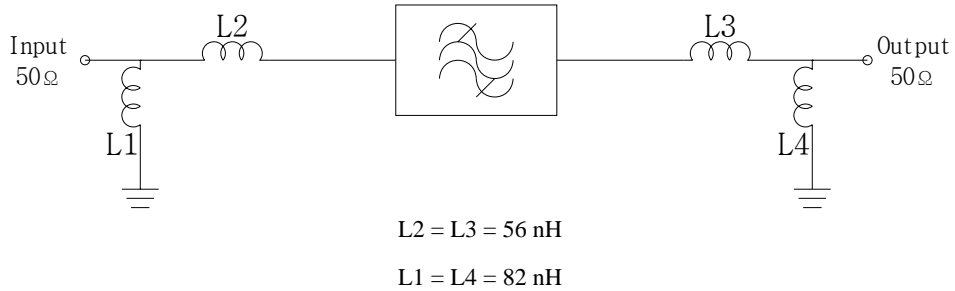
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202178B	
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4. Matching Schematic


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



5. Marking Configuration

ITF¹⁾04A001²⁾
202178B³⁾

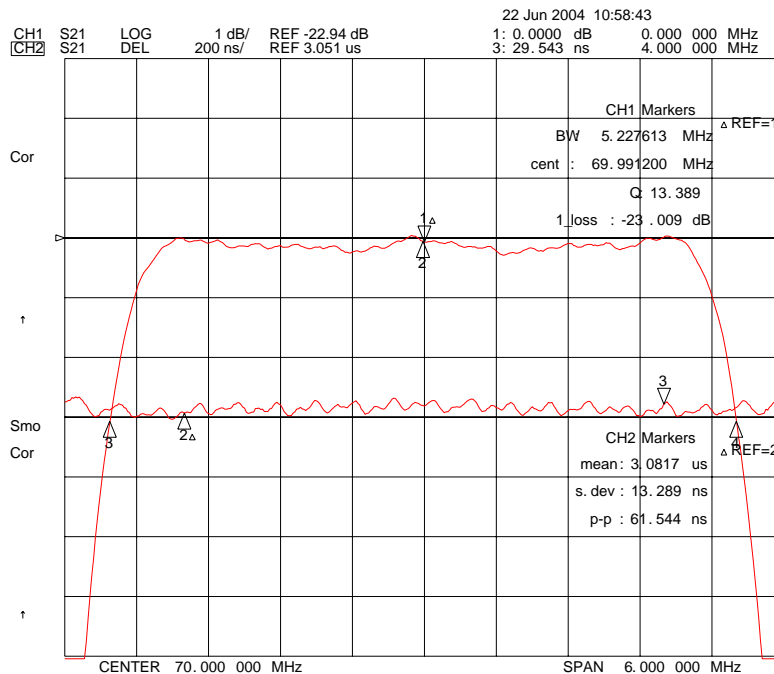
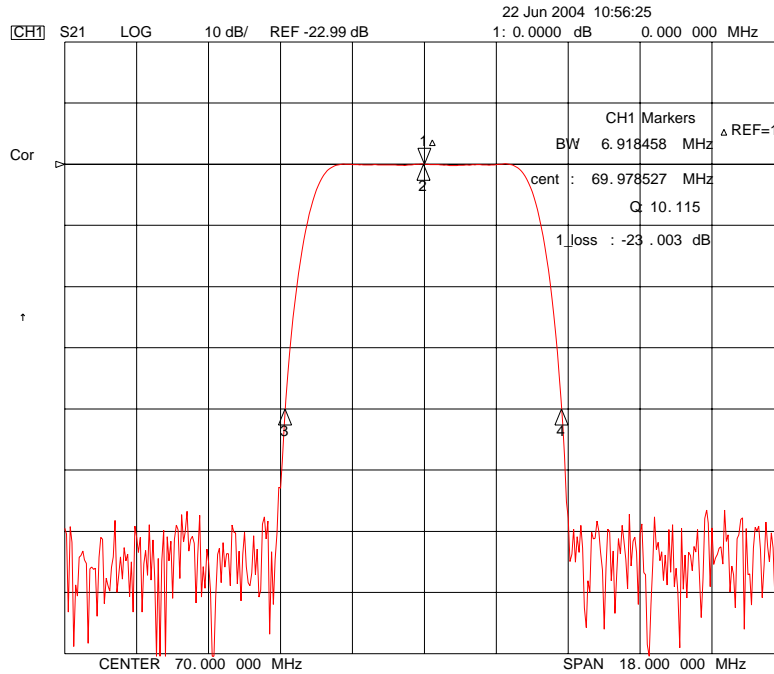
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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6. Typical Performance (at +25°C)



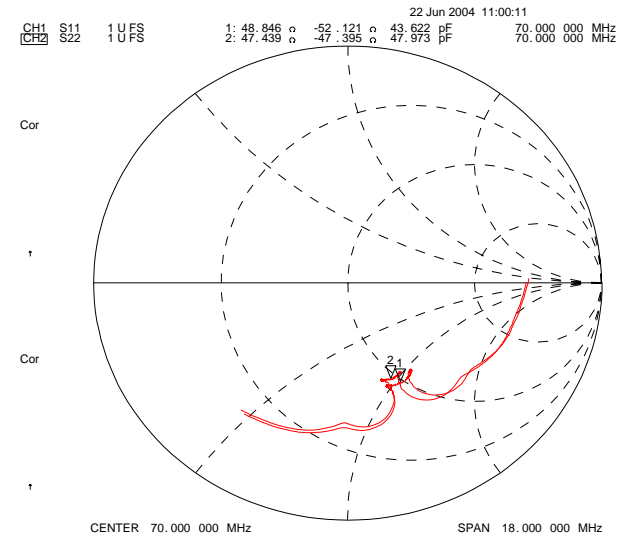
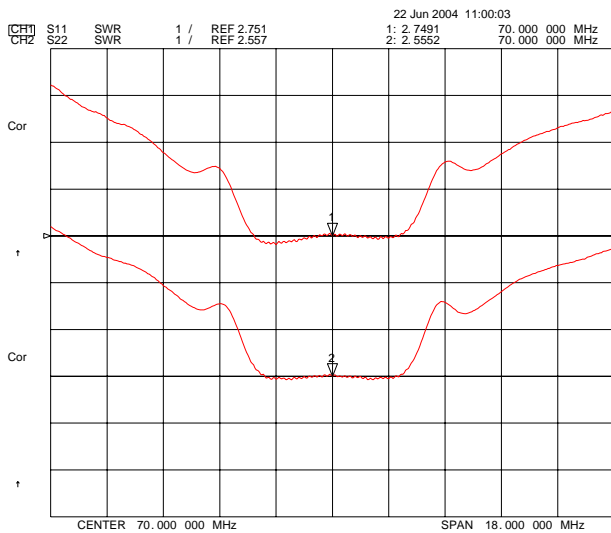
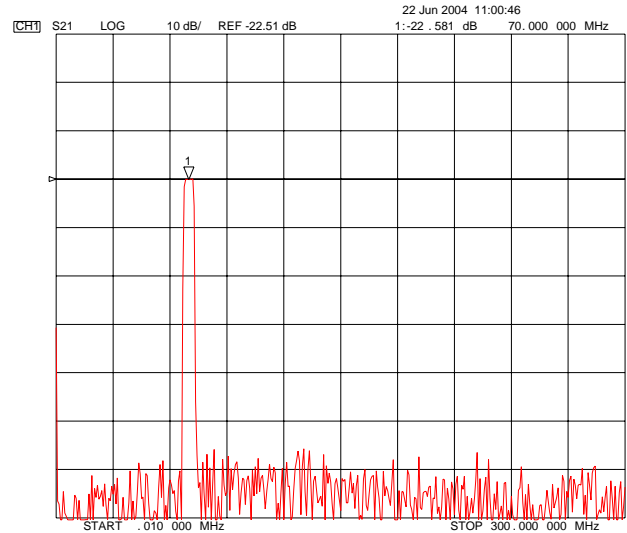
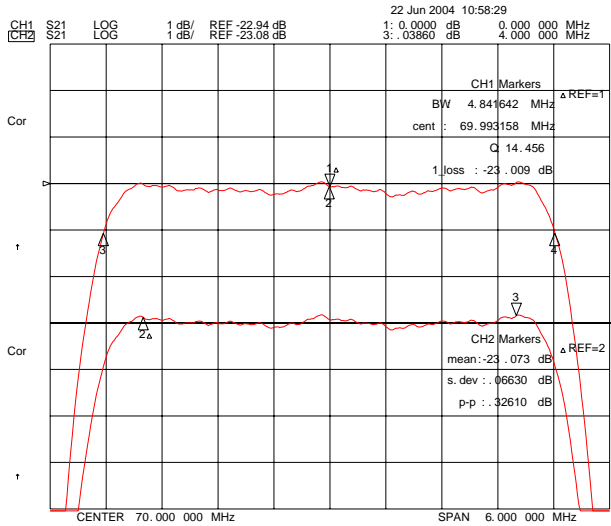
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