

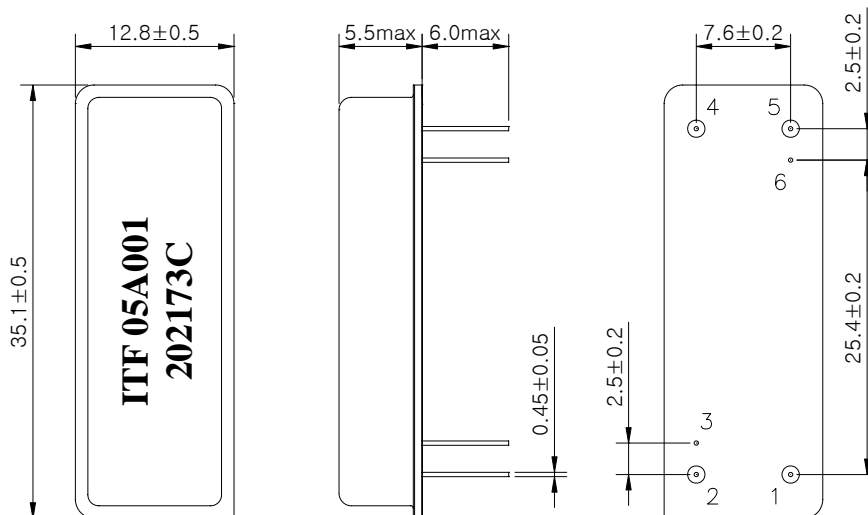
SAW Bandpass Filter 202173C



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 : D3512

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.	202173C	
		Rev. Date	2005-06-21	
		Rev.	NM5015-CS02	1/5

SAW Bandpass Filter 202173C



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	-	24.5	26.0
1dB Bandwidth	MHz	-	19.3	-
3dB Bandwidth	MHz	19.4	19.55	-
40dB Bandwidth	MHz	-	20.5	20.65
Amplitude Ripple (Fo +/- 9.375 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 9.375 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.89	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

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

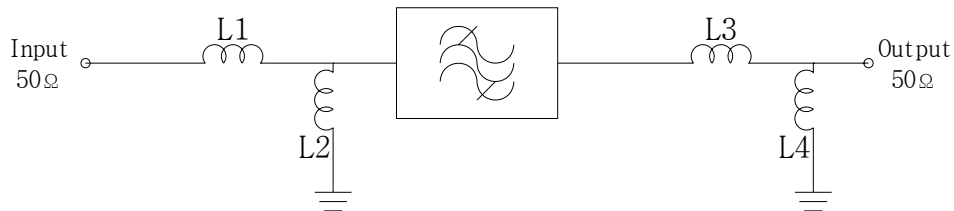
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202173C	
		Rev. Date	2005-06-21	
		Rev.	NM5015-CS02	2/5

SAW Bandpass Filter 202173C



4. Matching Schematic

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



L1 = 68 nH, L2 = 390 nH

L3 = 68 nH, L4 = 220 nH

5. Marking Configuration

ITF¹⁾05A001²⁾
202173C³⁾

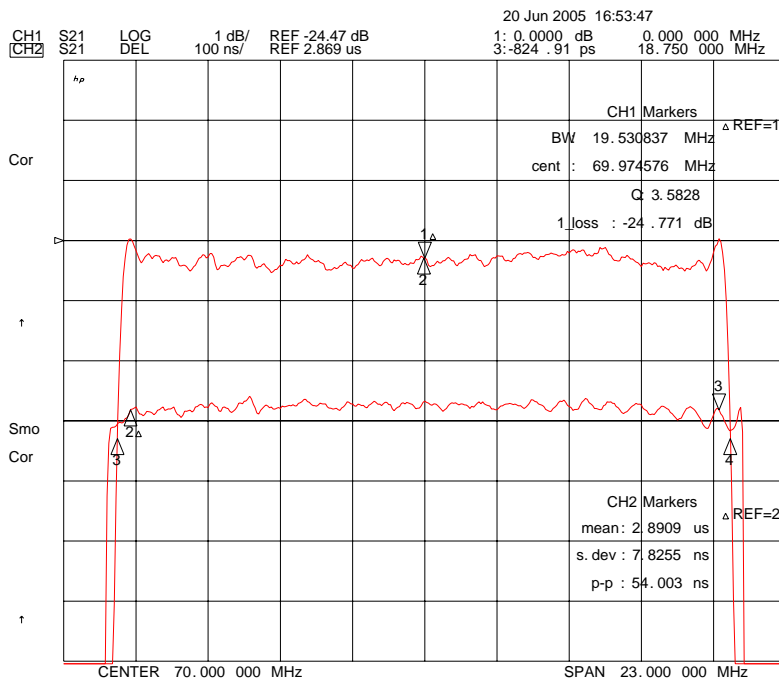
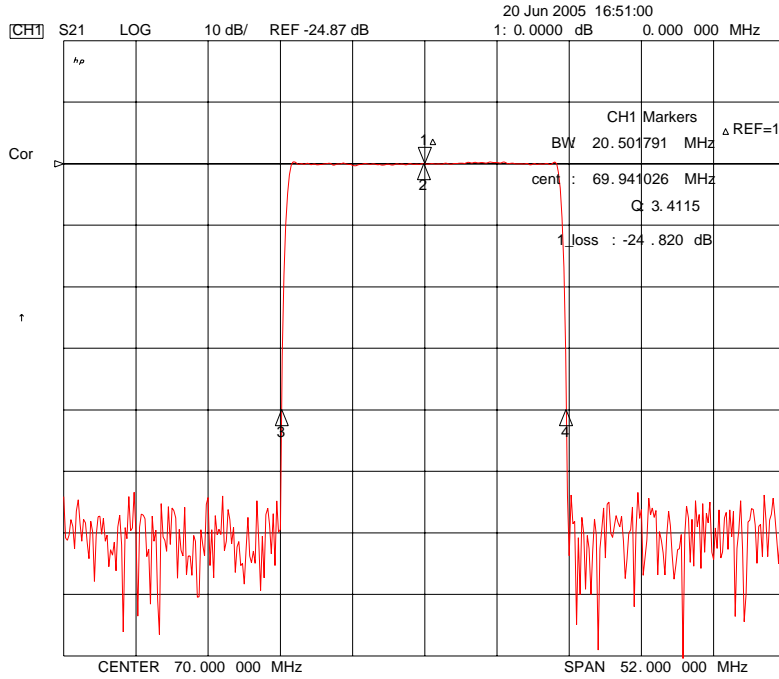
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	202173C	
		Rev. Date	2005-06-21	
		Rev.	NM5015-CS02	3/5

SAW Bandpass Filter 202173C



6. Typical Performance (at +25°C)



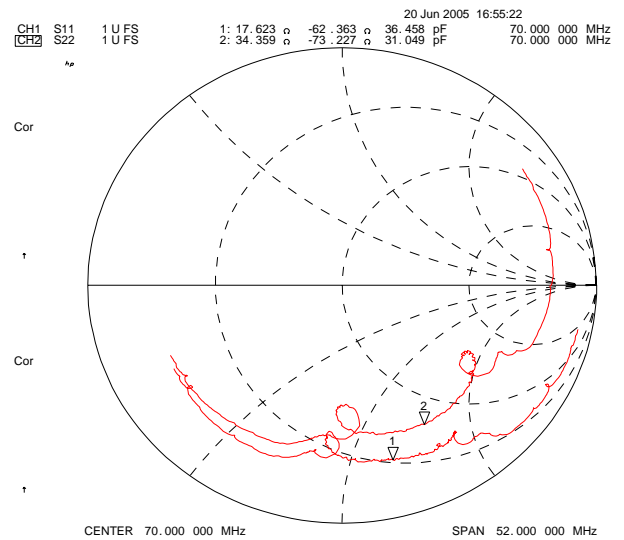
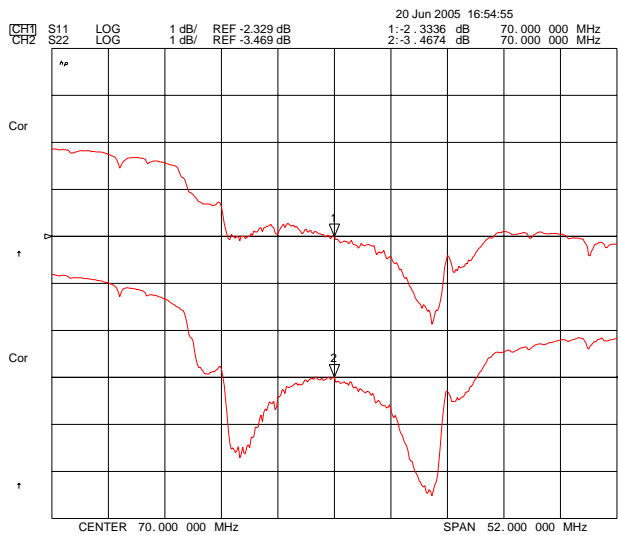
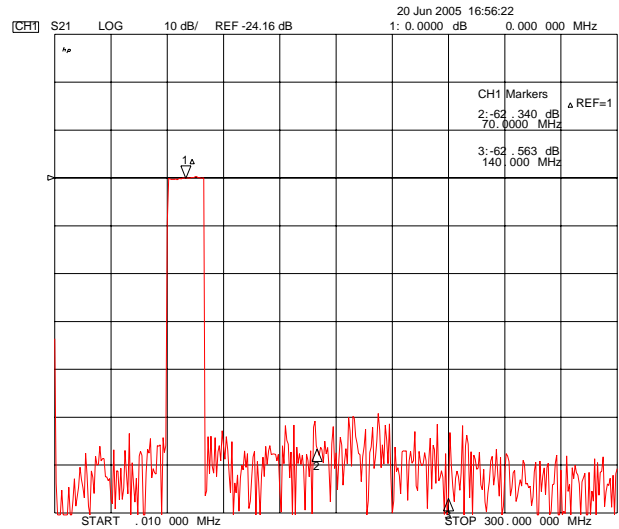
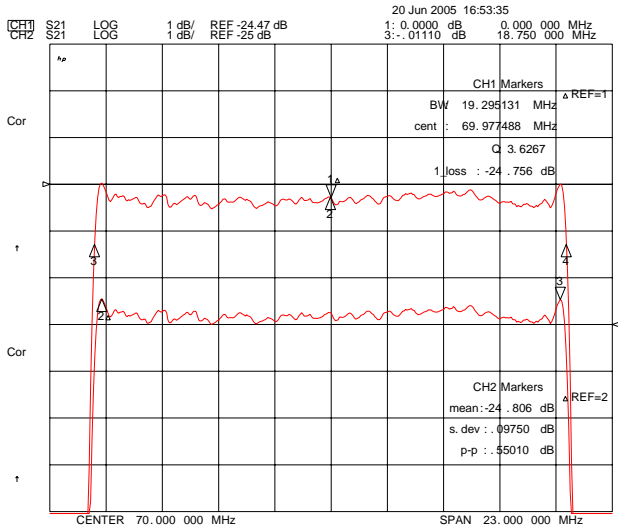
ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No. 202173C

Rev. Date 2005-06-21

Rev. NM5015-CS02 4/5

SAW Bandpass Filter 202173C



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

Part No. 202173C

Rev. Date 2005-06-21

Rev. NM5015-CS02 5/5