

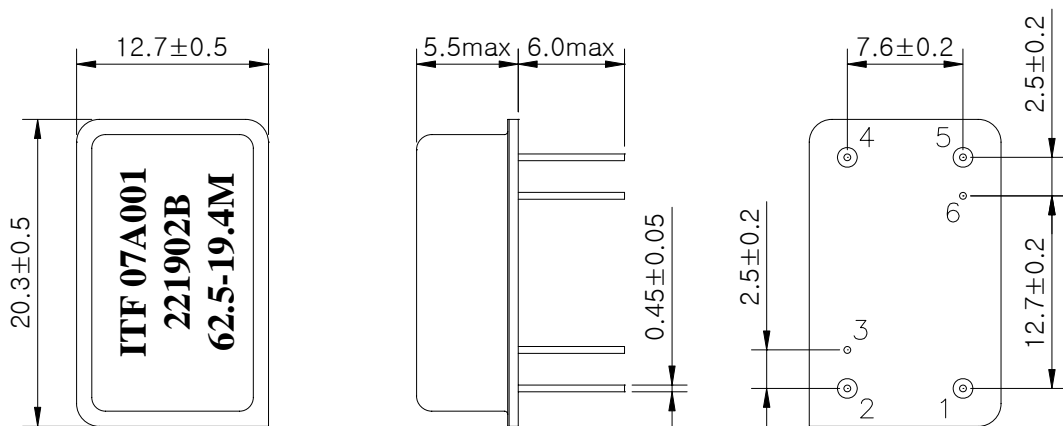
SAW Bandpass Filter 221902B



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.	221902B	
		Rev. Date	2007-04-12	
		Rev.	NM7013-CS01	1/5

SAW Bandpass Filter 221902B



3. Specifications

Fo = 62.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	62.5	-
Insertion Loss	dB	-	24.0	25.5
1dB Bandwidth	MHz	-	19.4	-
3dB Bandwidth	MHz	19.8	19.92	-
40dB Bandwidth	MHz	-	22.06	22.15
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	50	100
Absolute Delay	usec	-	1.84	-
Ultimate Rejection	dB	50	55	-
Relative Attenuation				
Fo +/- 10MHz	dB	25	37	
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

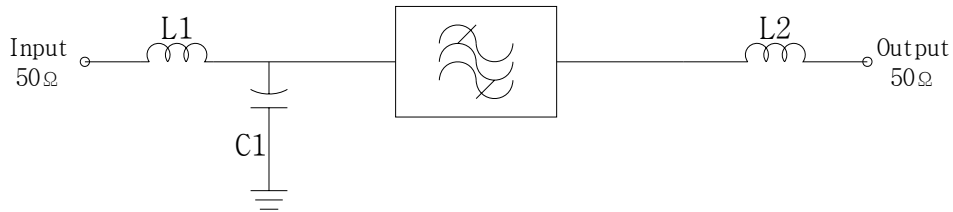
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	221902B	
		Rev. Date	2007-04-12	
		Rev.	NM7013-CS01	2/5

SAW Bandpass Filter 221902B



4. Matching Schematic

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



L1 = 150nH, L2 = 180nH, C1 = 12pF


5. Marking Configuration

ITF¹⁾ 07A001²⁾

221902B³⁾

62.5⁴⁾ -19.4M⁵⁾

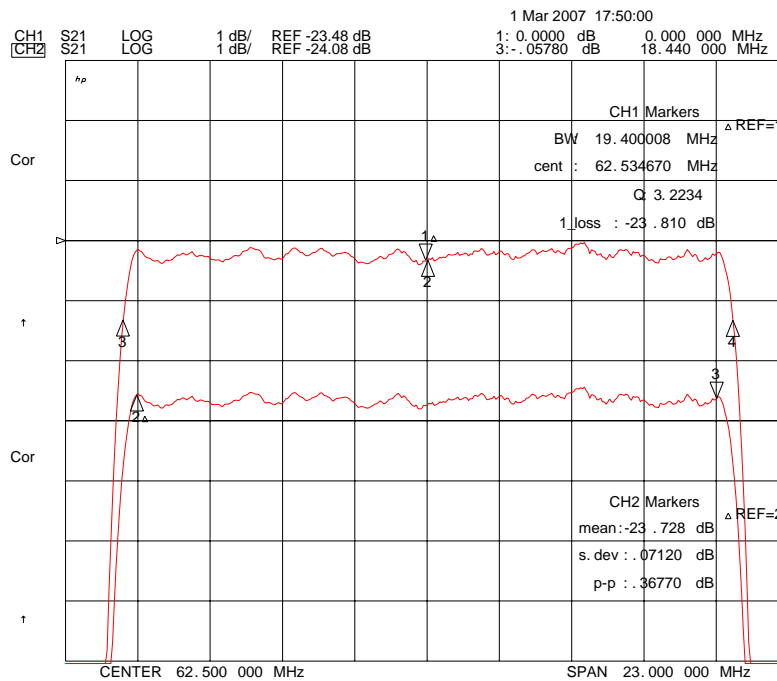
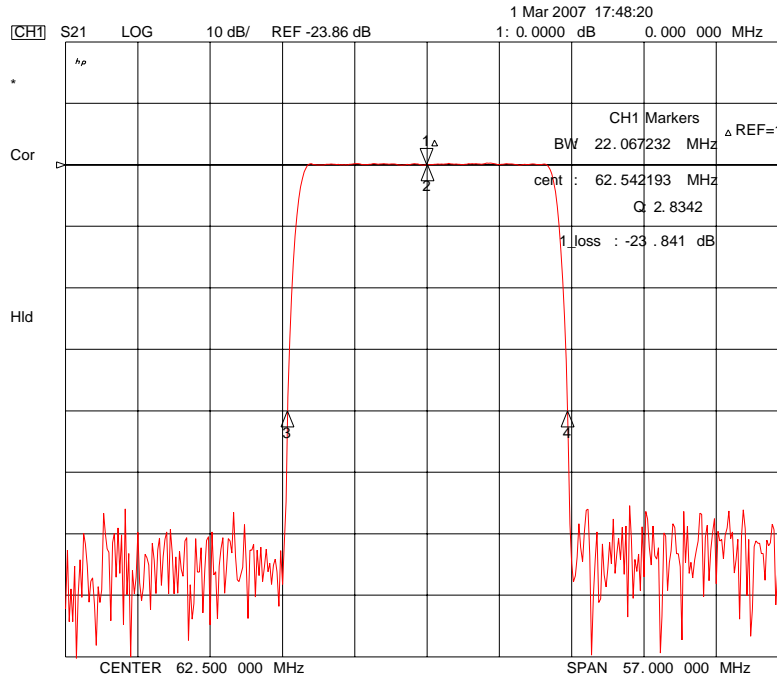
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	221902B	
		Rev. Date	2007-04-12	
		Rev.	NM7013-CS01	3/5

SAW Bandpass Filter 221902B



6. Typical Performance (at +25°C)



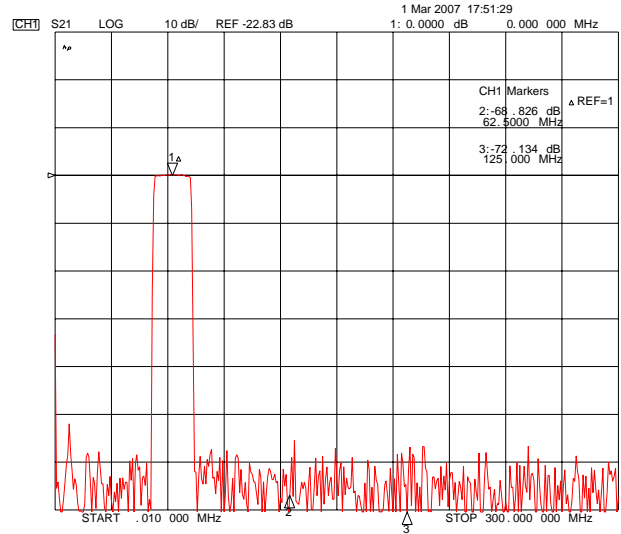
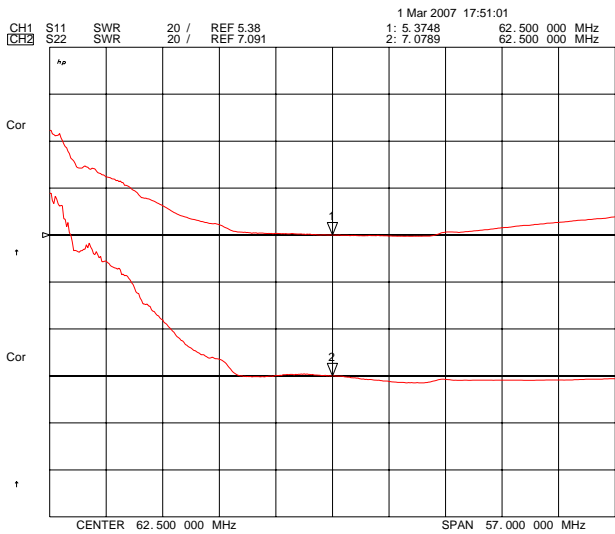
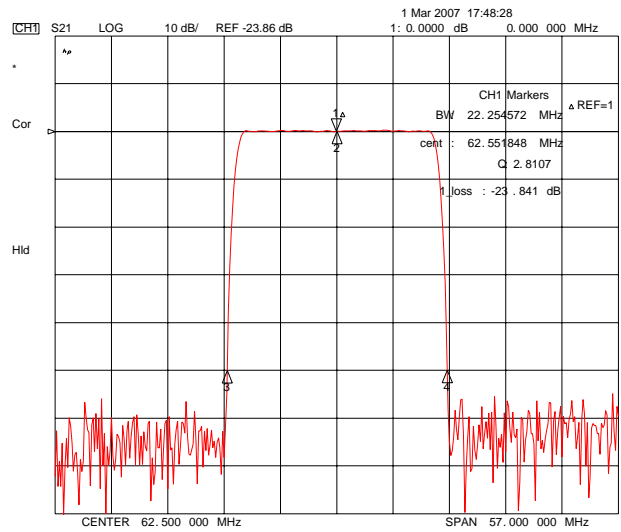
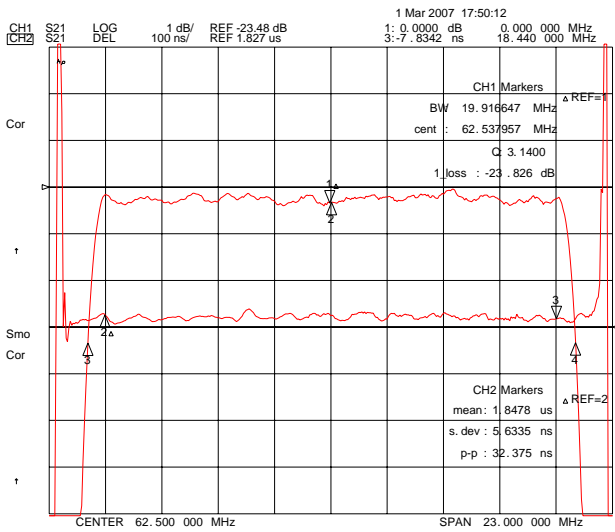
ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No. 221902B

Rev. Date 2007-04-12

Rev. NM7013-CS01 4/5

SAW Bandpass Filter 221902B



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

Part No.	221902B	
Rev. Date	2007-04-12	
Rev.	NM7013-CS01	5/5