

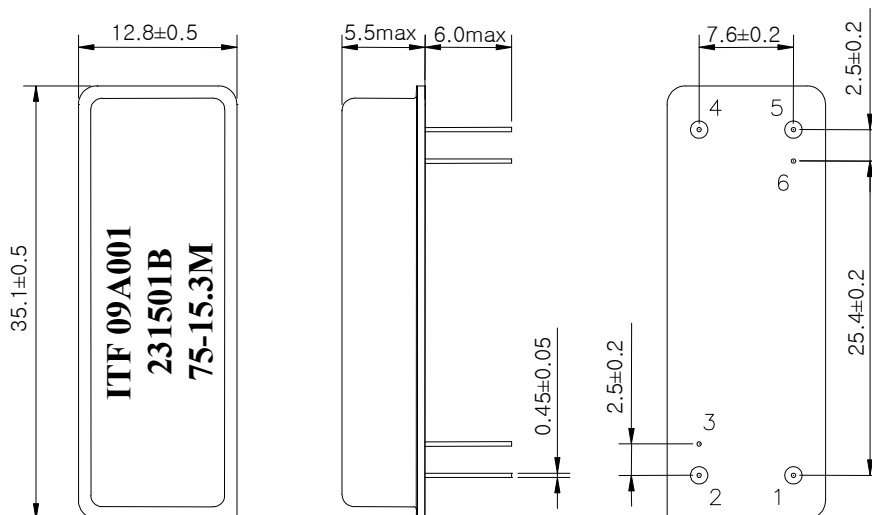
SAW Bandpass Filter 231501B



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.	231501B	
Rev. Date	2009-07-15	
Rev.	NM9021-CS01	1/5

SAW Bandpass Filter 231501B



3. Specifications

Fo = 75.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	75.0	-
Insertion Loss	dB	-	24.0	26.0
1dB Bandwidth	MHz	15.2	15.36	-
3dB Bandwidth	MHz	-	15.54	-
50dB Bandwidth	MHz	-	16.36	16.5
Amplitude Ripple (fo ± 7.56 MHz)	dB	-	0.5	1.0
Group Delay Variation (fo ± 7.56 MHz)	nsec	-	60	120
Absolute Delay	usec	-	3.5	-
Ultimate Rejection	dB	55	60	-
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

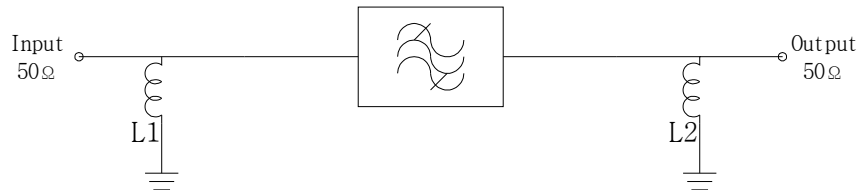
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	231501B	
		Rev. Date	2009-07-15	
		Rev.	NM9021-CS01	2/5

SAW Bandpass Filter 231501B



4. Matching Schematic

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




$$L1 = L2 = 150\text{nH}$$

5. Marking Configuration

ITF¹⁾09A001²⁾
231501B³⁾
75⁴⁾-15.3M⁵⁾

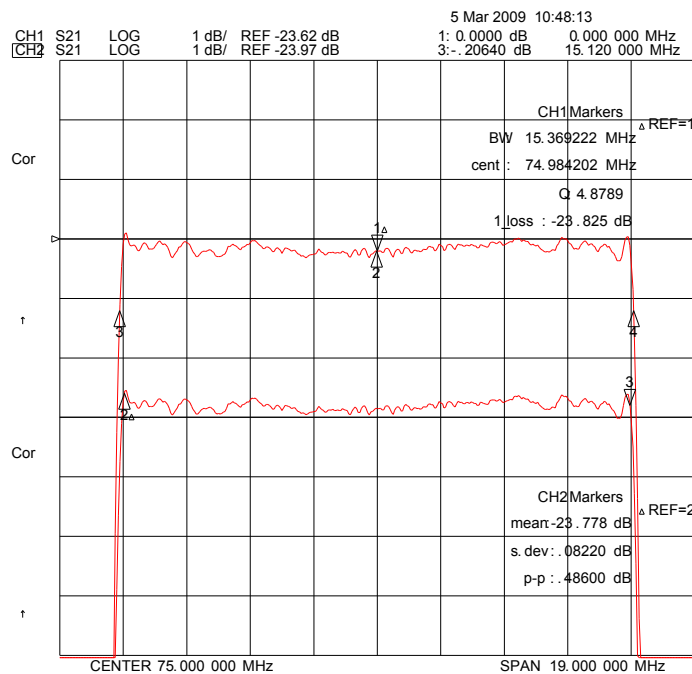
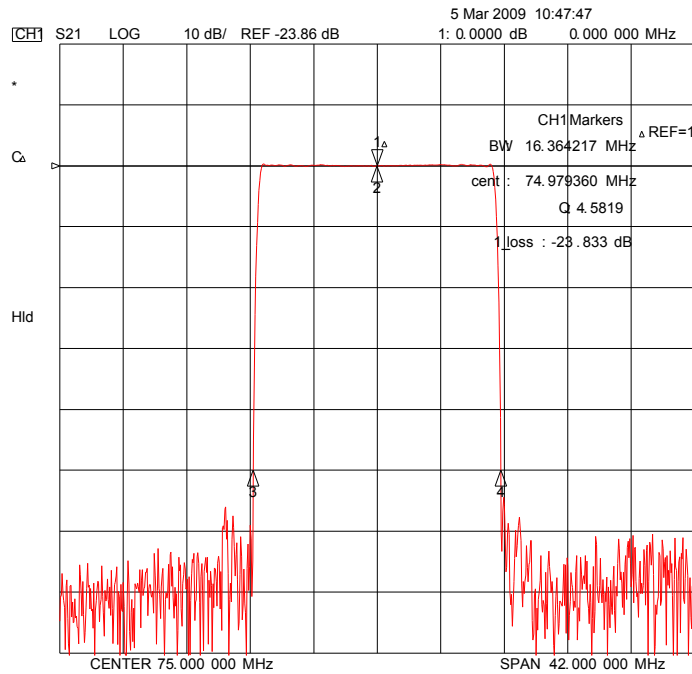
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center frequency
- 5) 1dB-Bandwidth

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	231501B	
		Rev. Date	2009-07-15	
		Rev.	NM9021-CS01	3/5

SAW Bandpass Filter 231501B

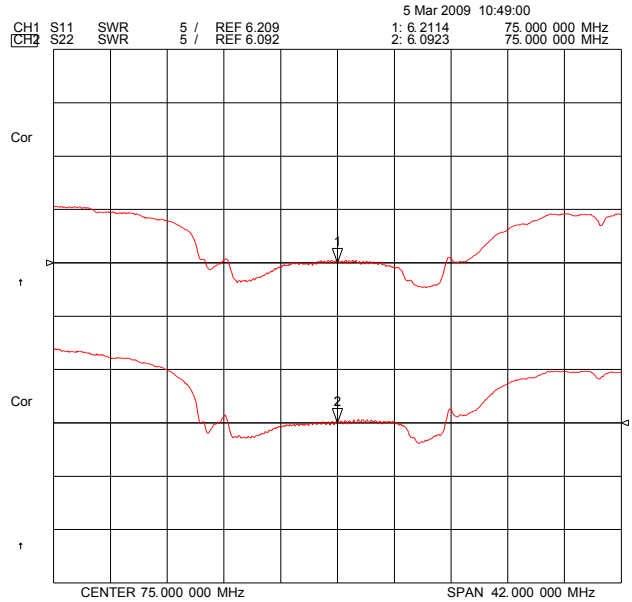
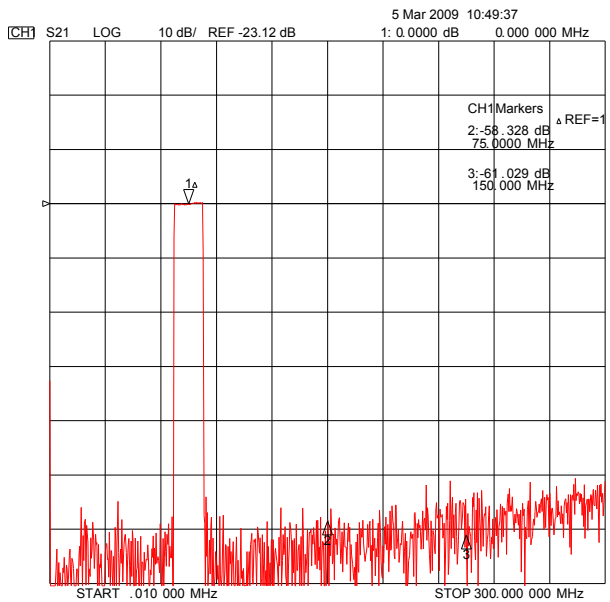
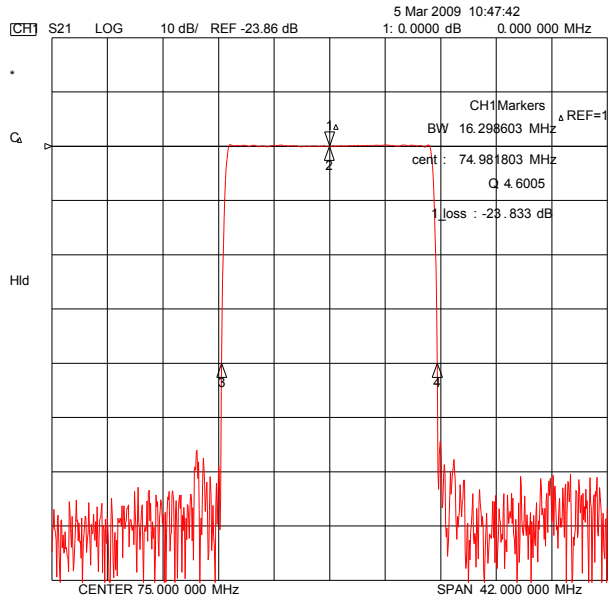
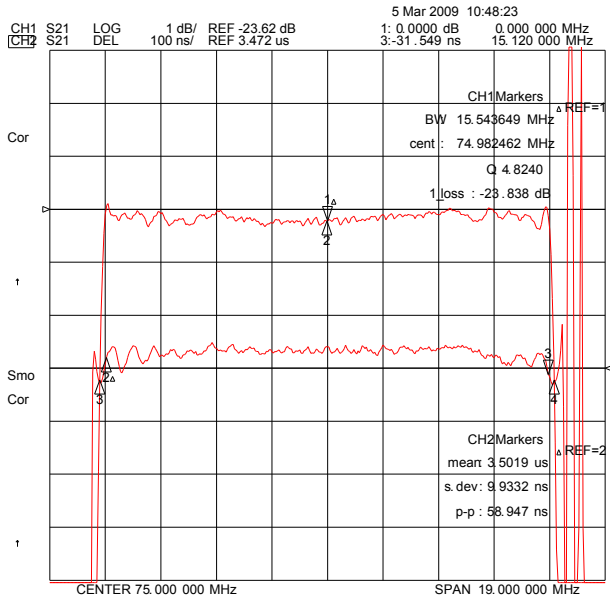


6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	231501B	
		Rev. Date	2009-07-15	
		Rev.	NM9021-CS01	4/5

SAW Bandpass Filter 231501B



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

Part No.	231501B	
Rev. Date	2009-07-15	
Rev.	NM9021-CS01	5/5