

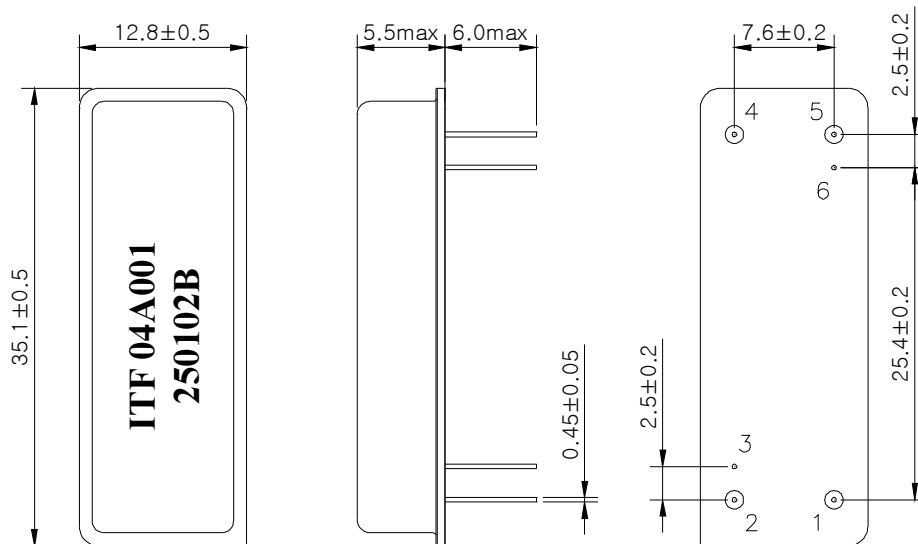
SAW Bandpass Filter 250102B



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
4	Output
2, 5	Ground
Other	Case ground

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250102B	
		Rev. Date	2004-12-02	
		Rev.	NW4015-CS01	1/5

SAW Bandpass Filter 250102B



3. Specifications

F_o = 160 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency	MHz	159.92	160.0	160.08
Insertion Loss	dB	-	24	26
1dB Bandwidth	MHz	1.35	1.5	-
3dB Bandwidth	MHz	1.55	1.63	-
40dB Bandwidth	MHz	-	2.16	2.3
Amplitude Ripple (F _o +/- 0.625 MHz)	dB	-	0.6	1.0
Group Delay Variation (F _o +/- 0.625 MHz)	nsec	-	200	400
Absolute Delay	usec	-	4.5	-
Ultimate Rejection	dB	45	50	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

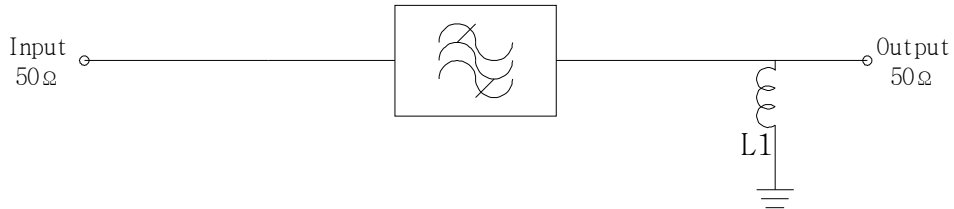
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250102B	
		Rev. Date	2004-12-02	
		Rev.	NW4015-CS01	2/5

SAW Bandpass Filter 250102B



4. Matching Schematic

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



L1 = 12 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾
250102B³⁾

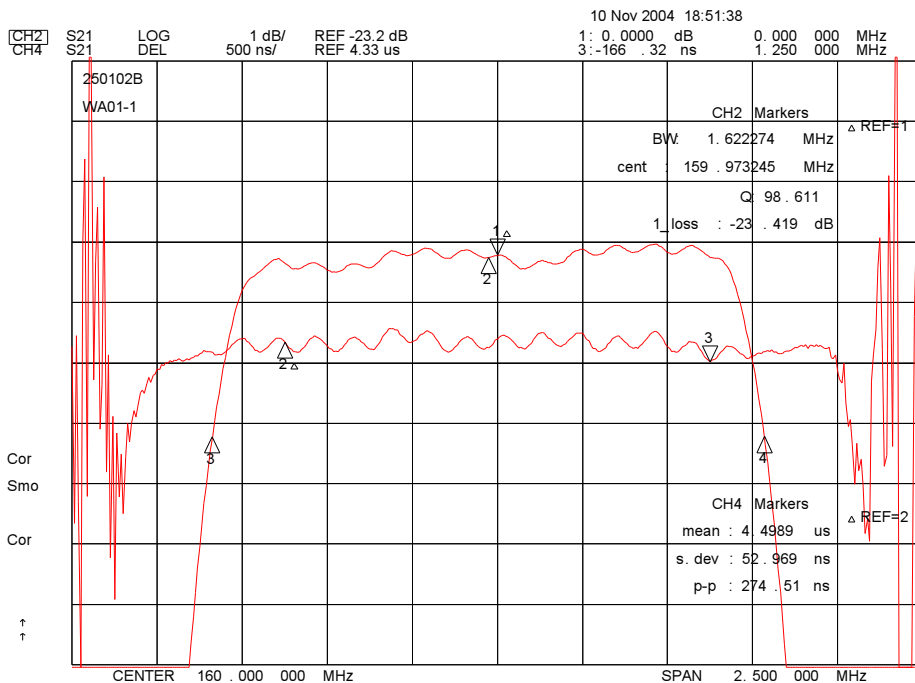
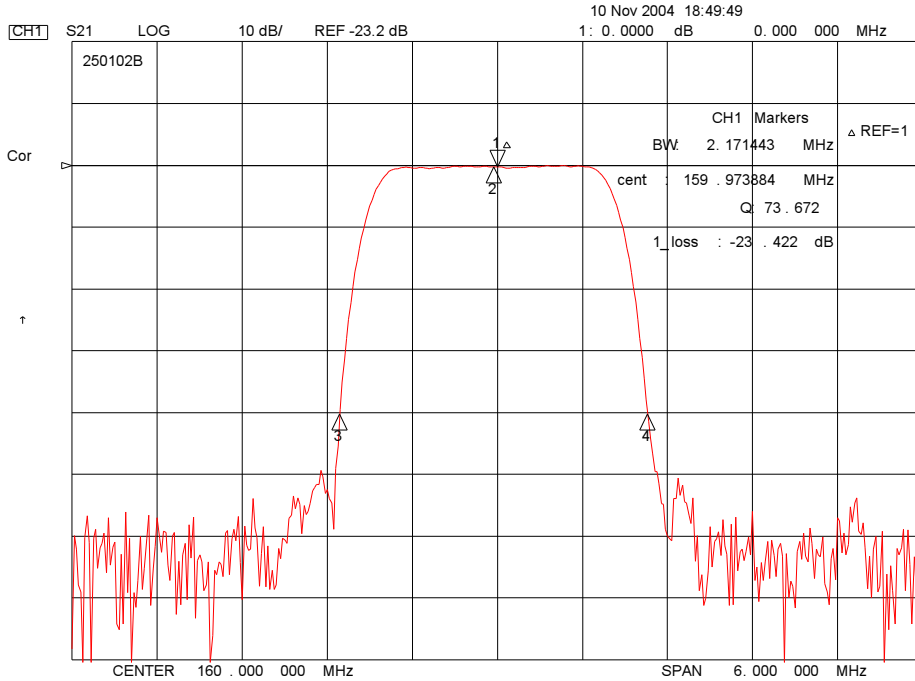
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250102B	
		Rev. Date	2004-12-02	
		Rev.	NW4015-CS01	3/5

SAW Bandpass Filter 250102B

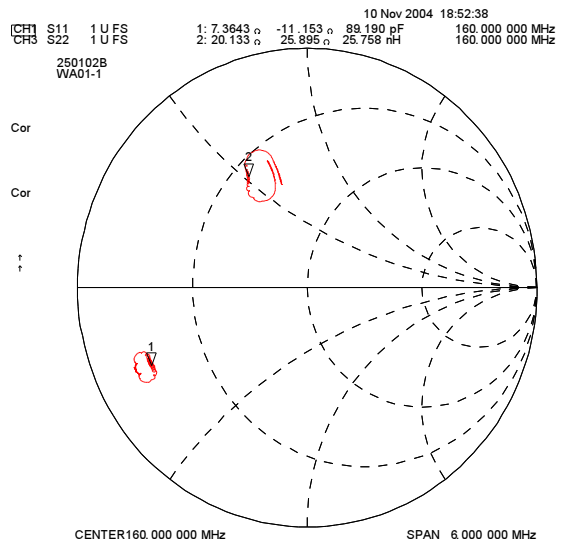
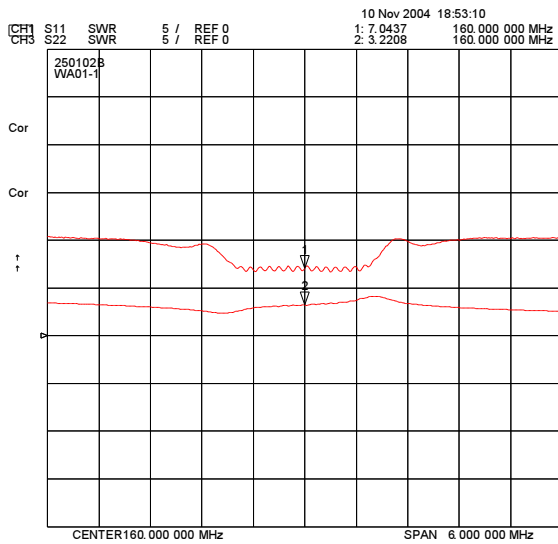
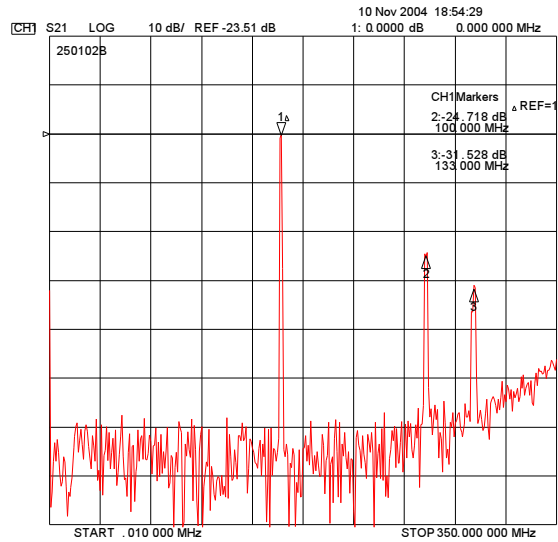
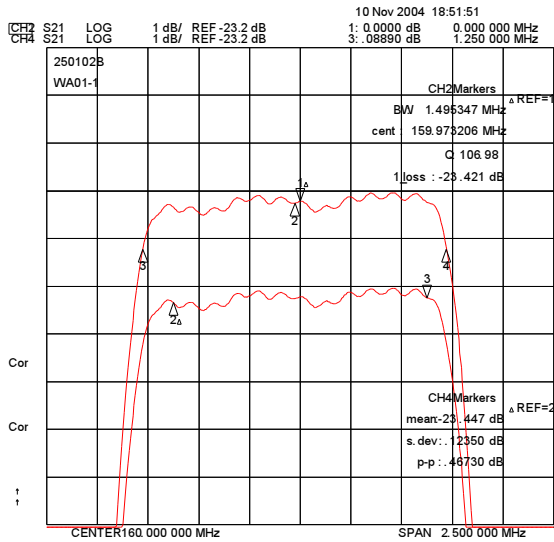


6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250102B	
		Rev. Date	2004-12-02	
		Rev.	NW4015-CS01	4/5

SAW Bandpass Filter 250102B



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250102B	
		Rev. Date	2004-12-02	
		Rev.	NW4015-CS01	5/5