

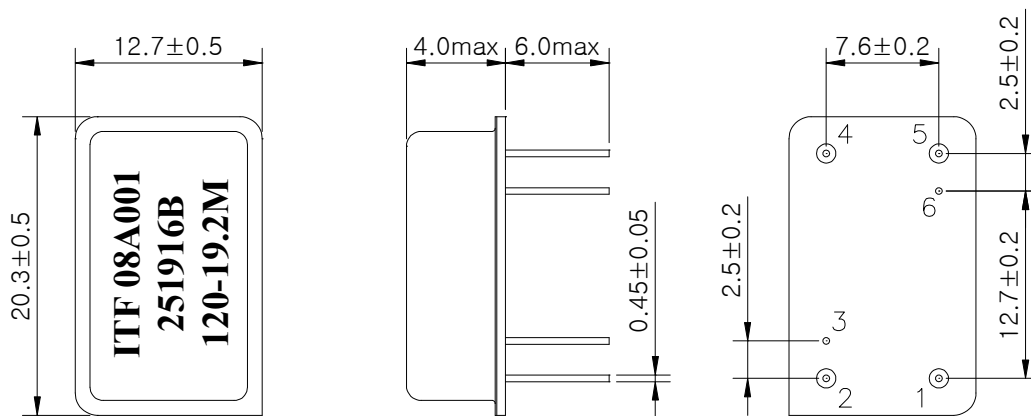
SAW Bandpass Filter 251916B



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.	251916B	
		Rev. Date	2008-01-09	
		Rev.	NM8001-CS01	1/5

SAW Bandpass Filter 251916B



3. Specifications

Fo = 120.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : +0 °C ~ +60 °C		Minimum	Typical	Maximum
Center Frequency	MHz	-	120.0	-
Insertion Loss	dB	-	23.2	25.0
1dB Bandwidth	MHz	-	19.22	-
3dB Bandwidth	MHz	19.2	19.55	-
40dB Bandwidth	MHz	-	20.9	21.0
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	40	100
Absolute Delay	usec	-	2.26	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

Room temperature : + 25 °C		Minimum	Typical	Maximum
Center Frequency	MHz	-	120.0	-
Insertion Loss	dB	-	23.2	25.0
Amplitude Ripple (Fo +/- 9.48 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo +/- 9.48 MHz)	nsec	-	40	100

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

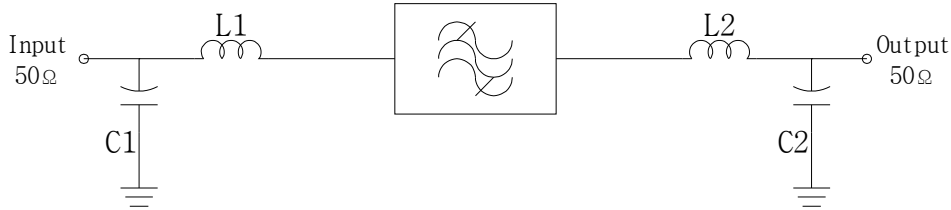
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251916B	
		Rev. Date	2008-01-09	
		Rev.	NM8001-CS01	2/5

SAW Bandpass Filter 251916B



4. Matching Schematic

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



L1 = 47nH, L2 = 47nH

C1 = 33pF, C2 = 33pF

5. Marking Configuration

ITF¹⁾ 08A001²⁾

251916B³⁾

120⁴⁾-19.2M⁵⁾

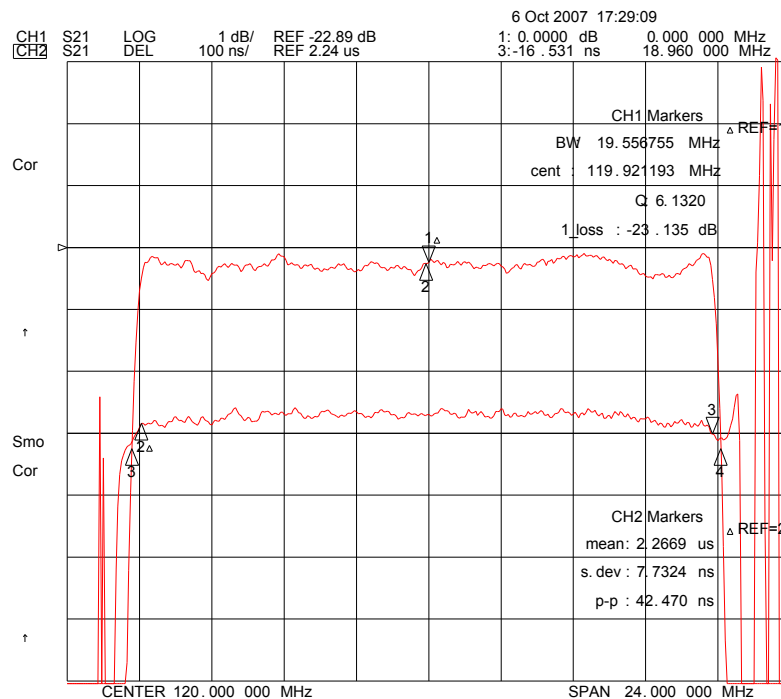
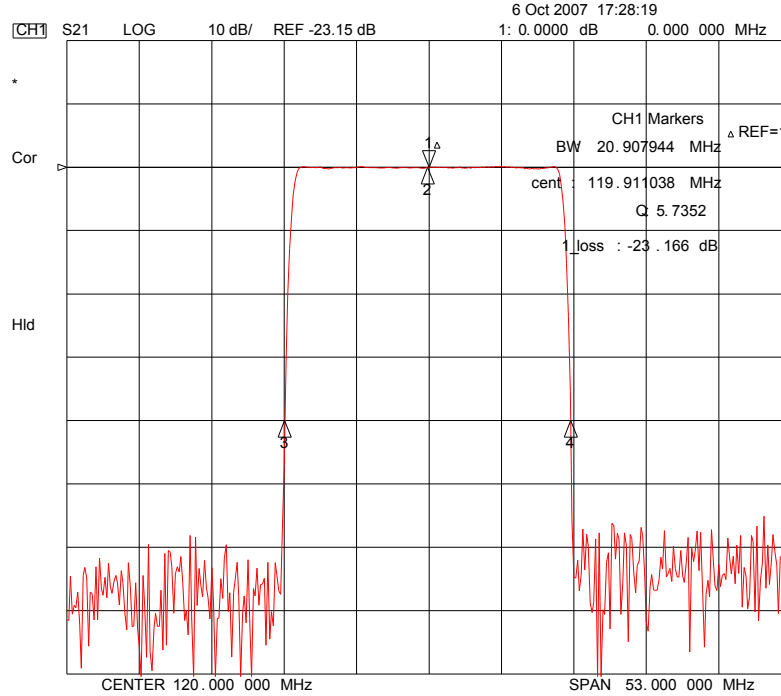
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center frequency
- 5) 1dB-Bandwidth

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251916B	
		Rev. Date	2008-01-09	
		Rev.	NM8001-CS01	3/5

SAW Bandpass Filter 251916B

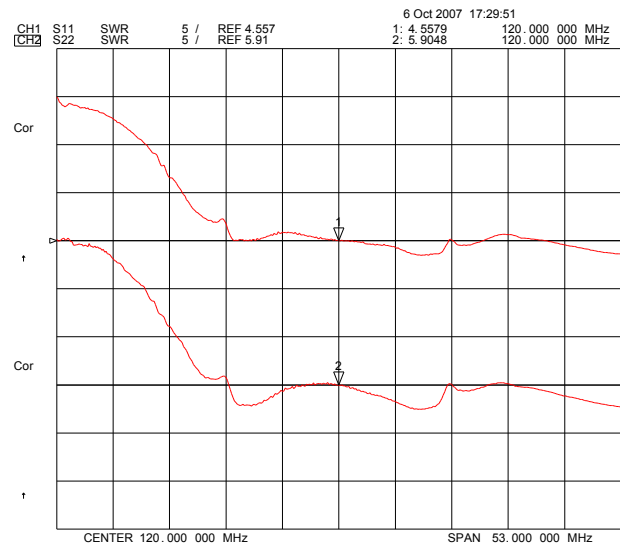
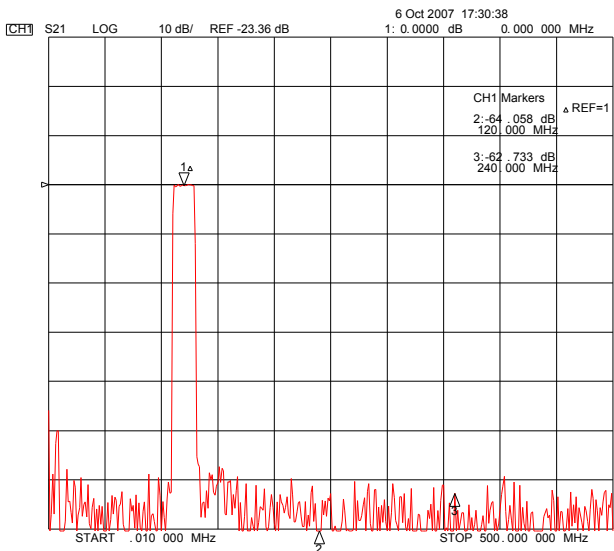
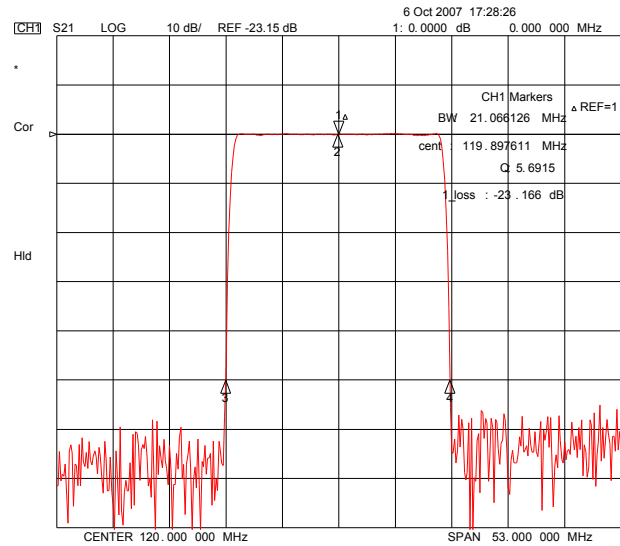
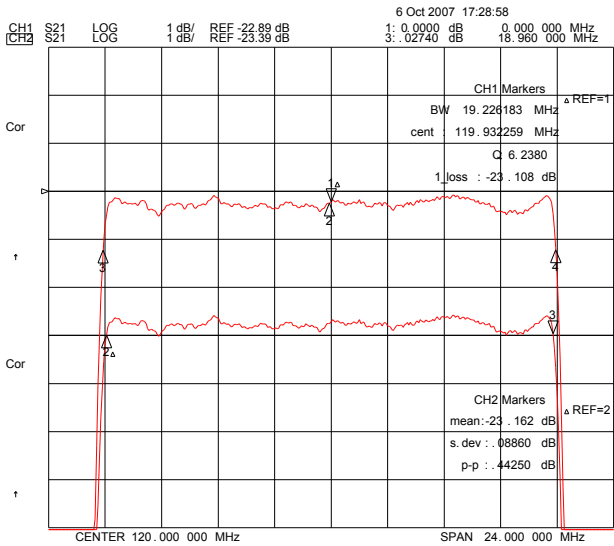


6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251916B	
		Rev. Date	2008-01-09	
		Rev.	NM8001-CS01	4/5

SAW Bandpass Filter 251916B



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

Part No.	251916B	
Rev. Date	2008-01-09	
Rev.	NM8001-CS01	5/5