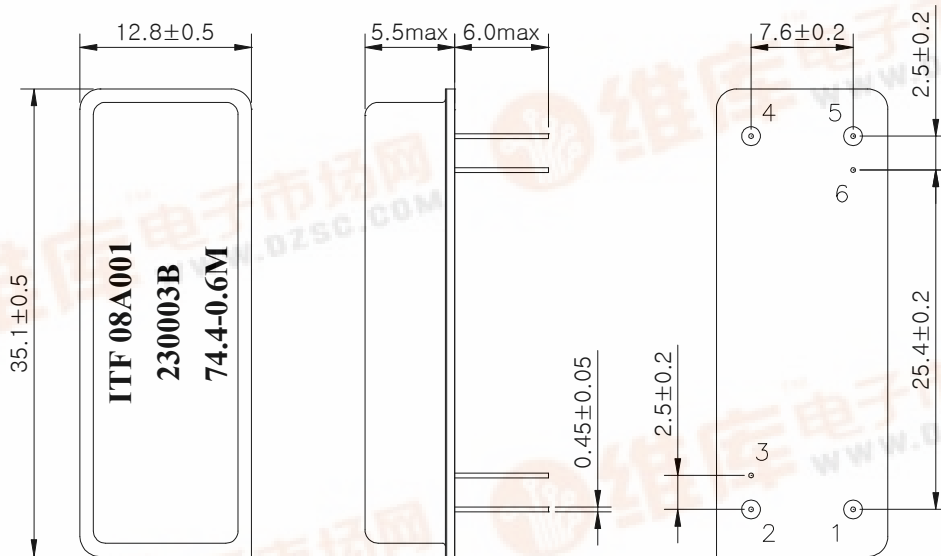


SAW Bandpass Filter 230003B

1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- Dip Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- 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.	230003B	
		Rev. Date	2008-11-13	
		Rev.	NW8031-CS01	1/5

SAW Bandpass Filter 230003B

3. Specifications

Fo = 74.4 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	74.4	-
Insertion Loss	dB	-	20.0	22.5
1dB Bandwidth	MHz	0.5	0.62	-
3dB Bandwidth	MHz	-	0.79	-
20dB Bandwidth	MHz	-	1.3	1.4
40dB Bandwidth	MHz	-	1.55	1.62
Amplitude Ripple (Fo +/- 0.225 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 0.225 MHz)	nsec	-	150	300
Absolute Delay	usec	-	3.6	-
Ultimate Rejection	dB	50	59	-
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 at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

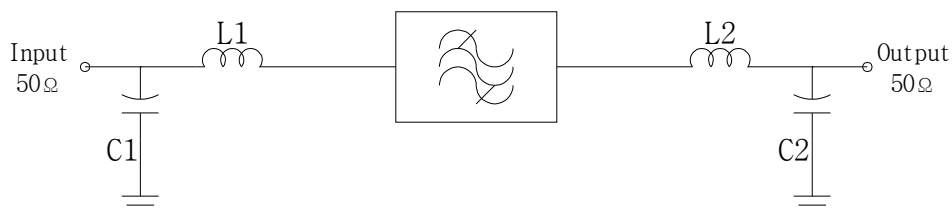
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	230003B	
		Rev. Date	2008-11-13	
		Rev.	NW8031-CS01	2/5

SAW Bandpass Filter 230003B



4. Matching Schematic

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



$$L1 = L2 = 120 \text{ nH}$$

$$C1 = C2 = 43 \text{ pF}$$

5. Marking Configuration

ITF¹⁾08A001²⁾

230003B³⁾

74.4⁴⁾-0.6M⁵⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

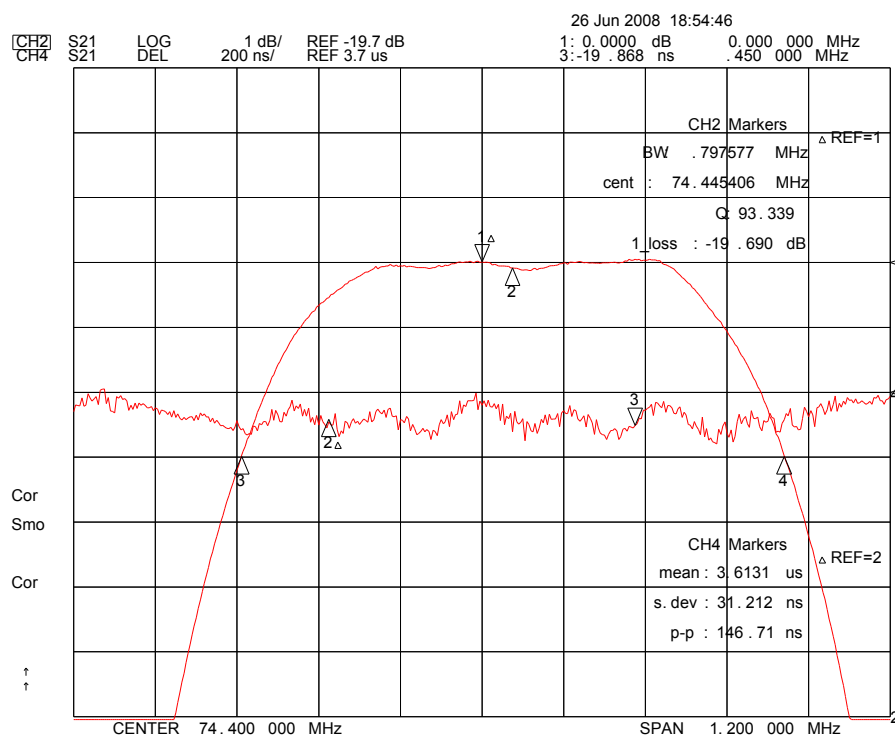
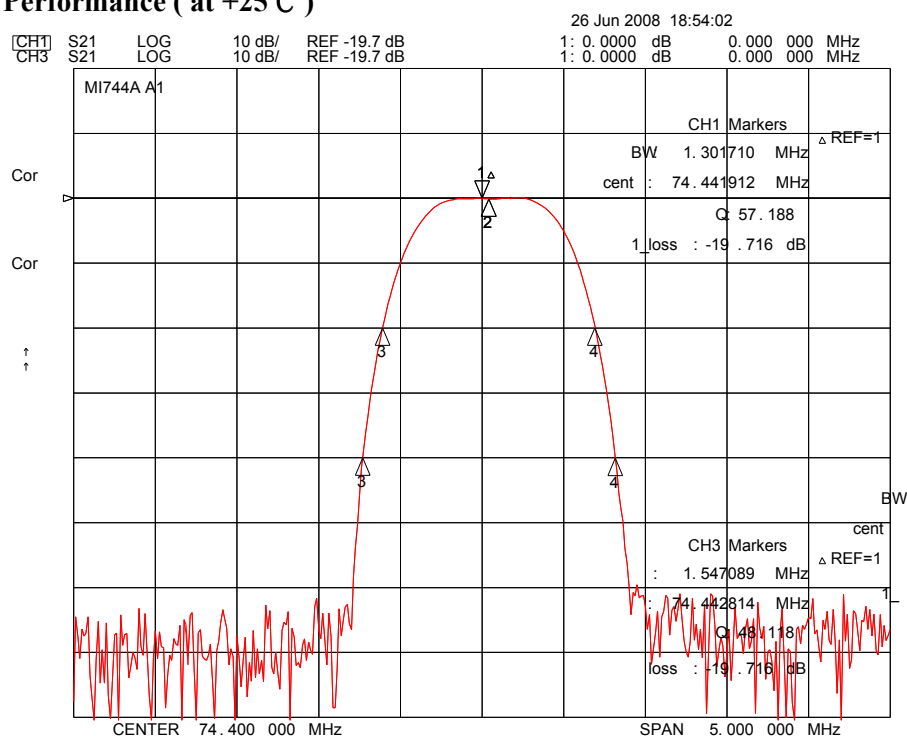
5) 1dB-Bandwidth

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	230003B	
		Rev. Date	2008-11-13	
		Rev.	NW8031-CS01	3/5

SAW Bandpass Filter 230003B

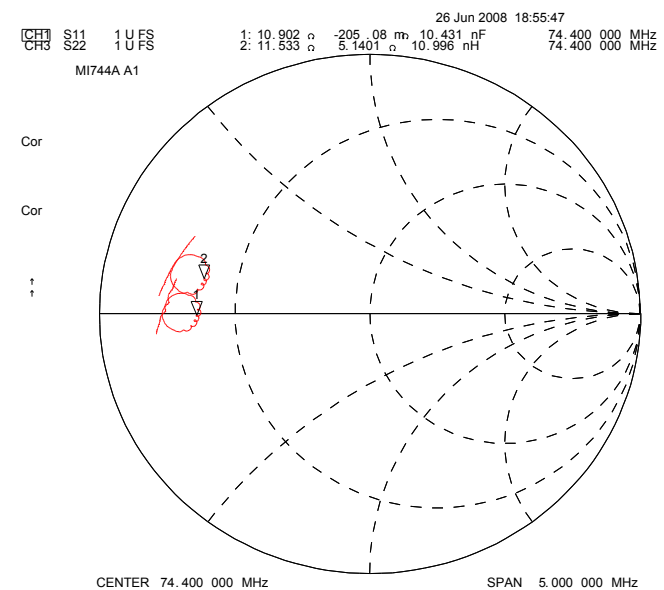
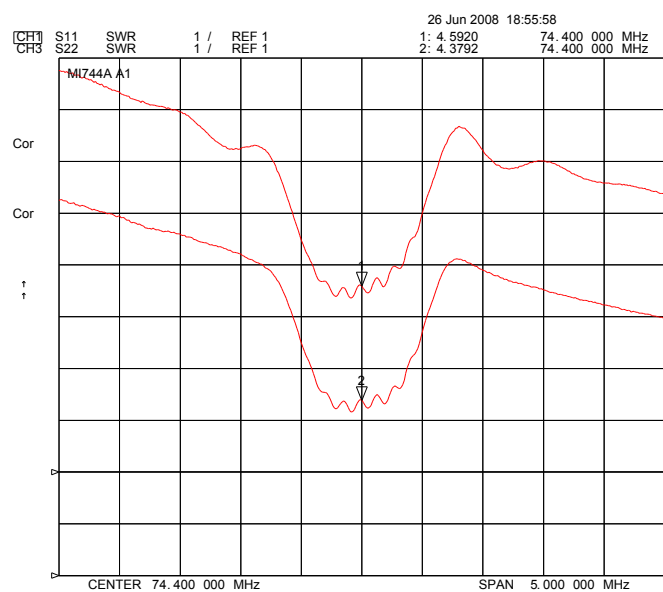
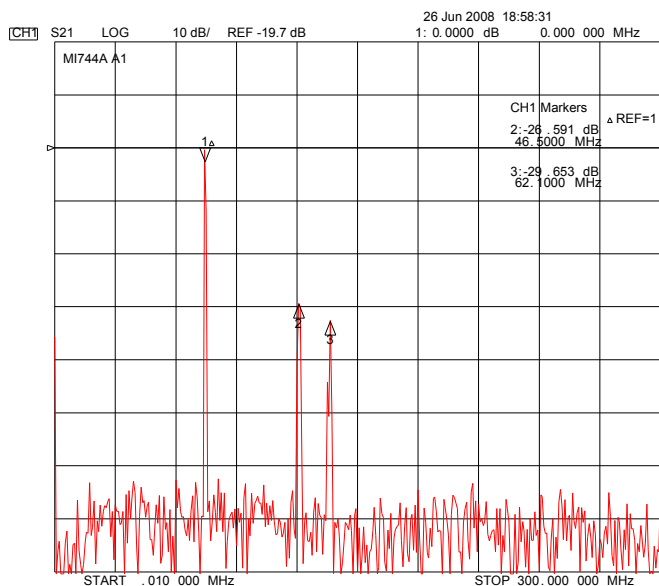
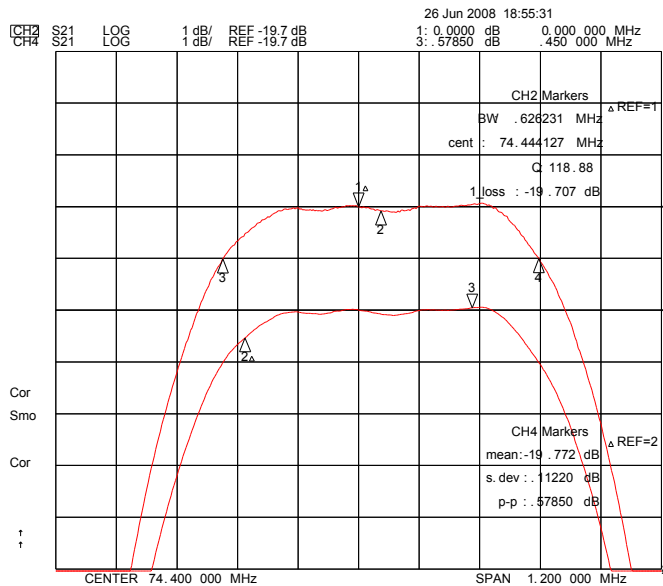


6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	230003B	
		Rev. Date	2008-11-13	
		Rev.	NW8031-CS01	4/5

SAW Bandpass Filter 230003B



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

Part No.

230003B

Rev. Date

2008-11-13

Rev.

NW8031-CS01

5/5