

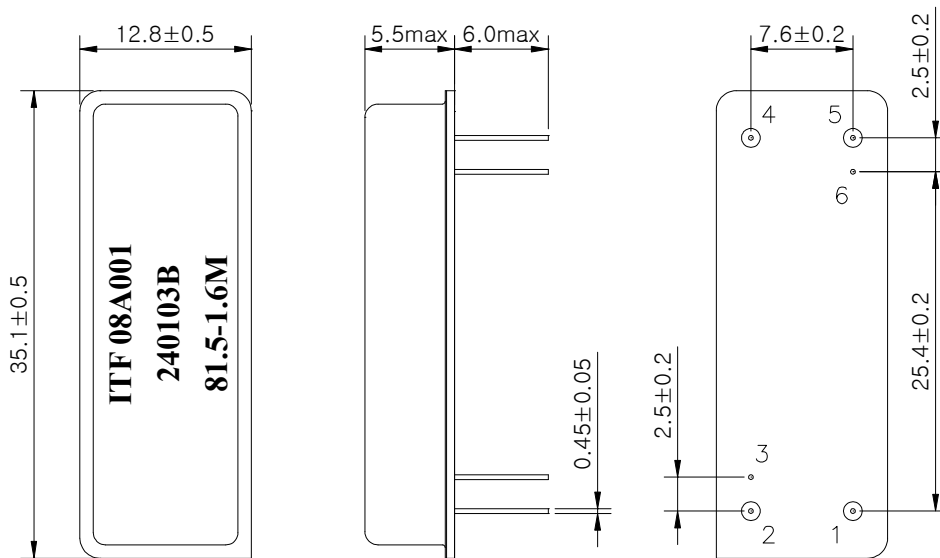
# SAW Bandpass Filter 240103B



## 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
3, 6	Case ground

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	240103B	
		Rev. Date	2008-04-23	
		Rev.	NW8004-CS01	1/5

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## 3. Specifications

Fo = 81.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	81.5	-
Insertion Loss	dB	-	21.5	24.0
1dB Bandwidth	MHz	1.55	1.63	-
3dB Bandwidth	MHz	-	1.79	-
40dB Bandwidth	MHz	-	2.51	2.60
Amplitude Ripple (Fo +/- 0.65 MHz)	dB	-	0.4	1.0
Group Delay Variation (Fo +/- 0.65 MHz)	nsec	-	220.0	350.0
Absolute Delay	usec	-	3.2	-
Ultimate Rejection	dB	50	55	-
Out of Band Gain				
Fo +/- 0.8 MHz +/- 400KHz	dB	20	25	-
Fo +/- 0.8 MHz +/- 600KHz	dB	25	55	-
Fo +/- 0.8 MHz +/- 1.0MHz	dB	28	55	-
Fo +/- 0.8 MHz +/- 5MHz	dB	33	55	-
Temperature Coefficient of Frequency	ppm/°C <sup>2</sup>	-	-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

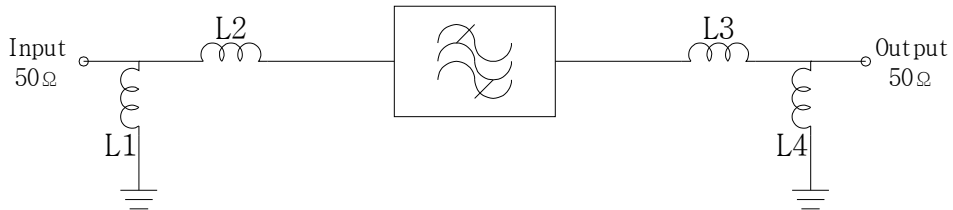
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## 4. Matching Schematic

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




L1 = 82 nH, L2 = 68nH  
L3 = 100 nH, L4 = 56 nH

## 5. Marking Configuration

ITF<sup>1)</sup>08A001<sup>2)</sup>  
240103B<sup>3)</sup>  
81.5<sup>4)</sup>-1.6M<sup>5)</sup>

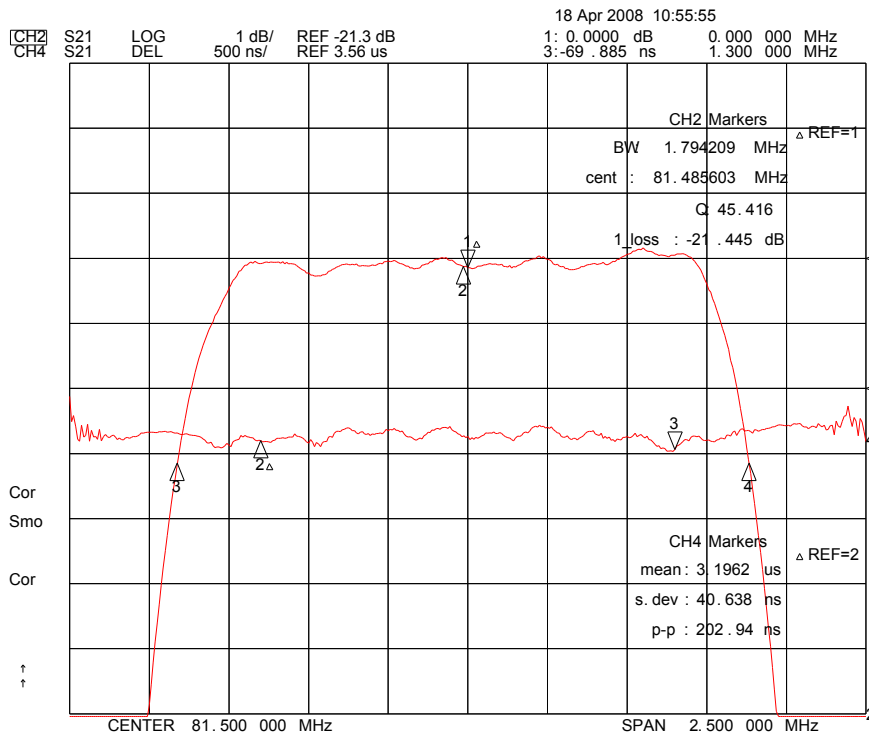
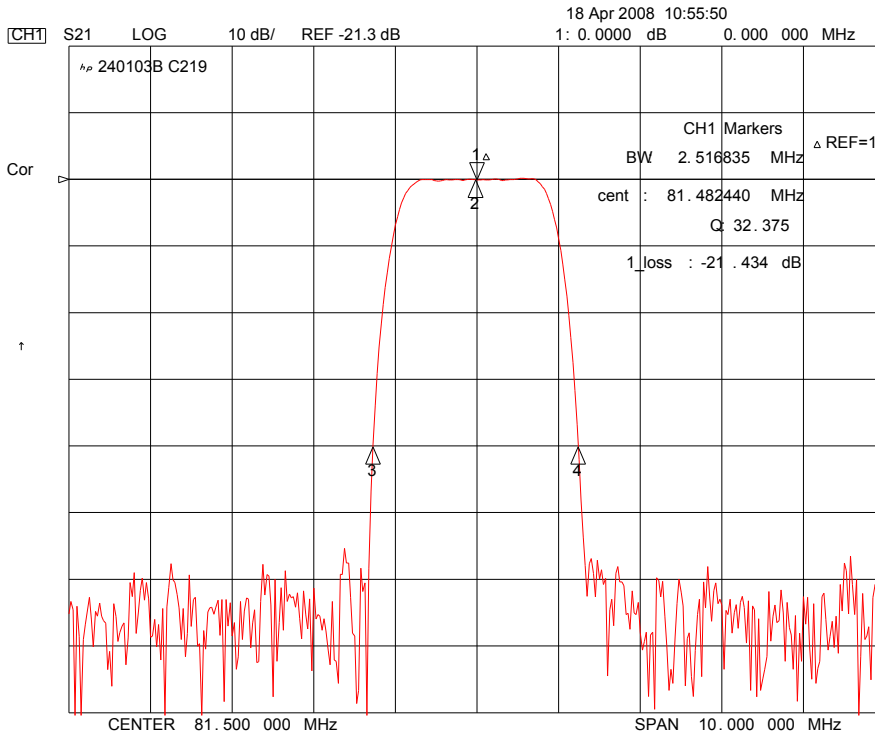
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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## 6. Typical Performance ( at +25°C )



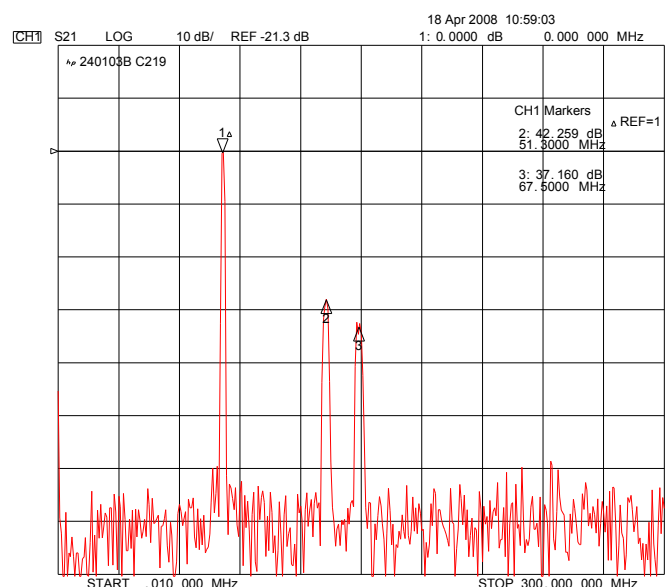
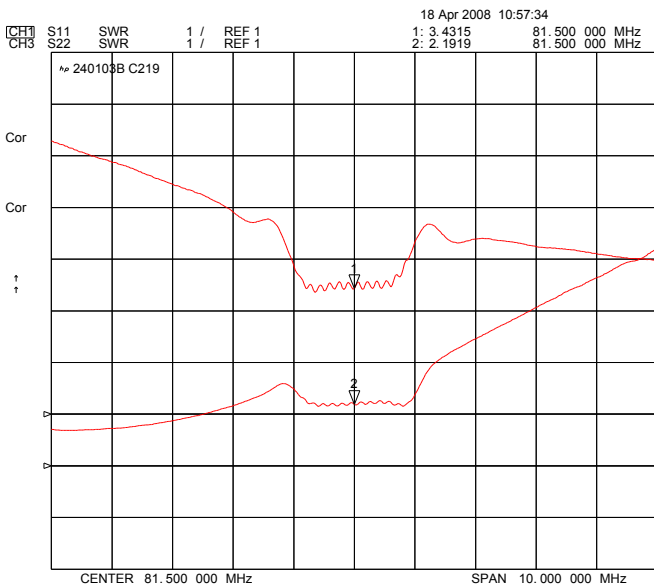
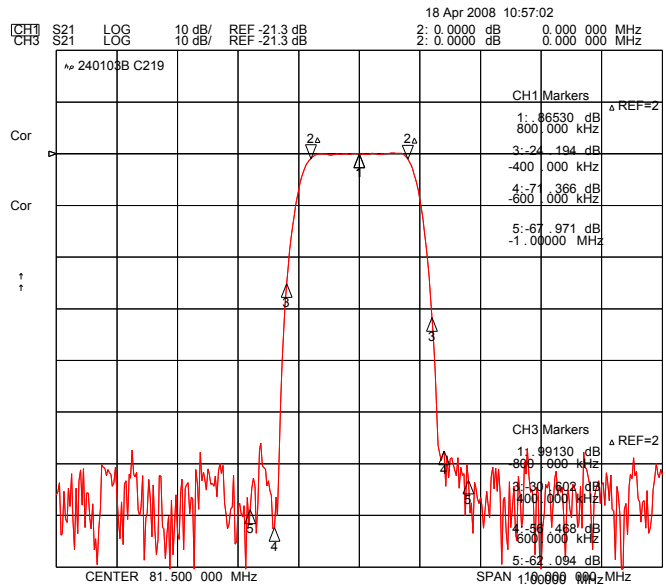
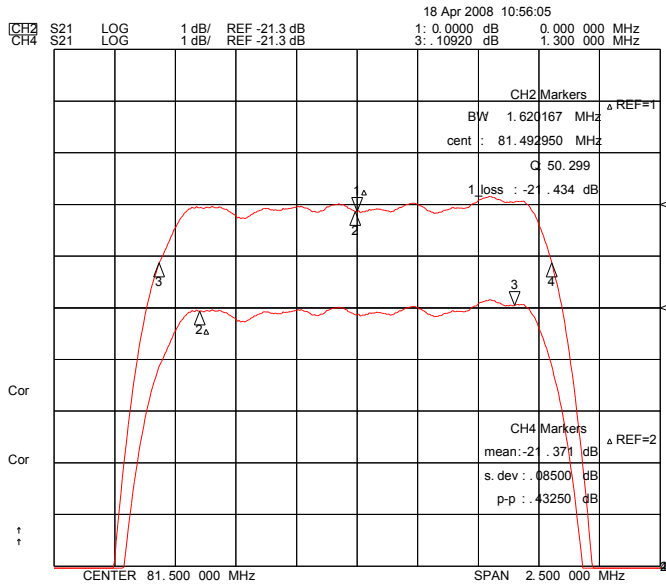
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