

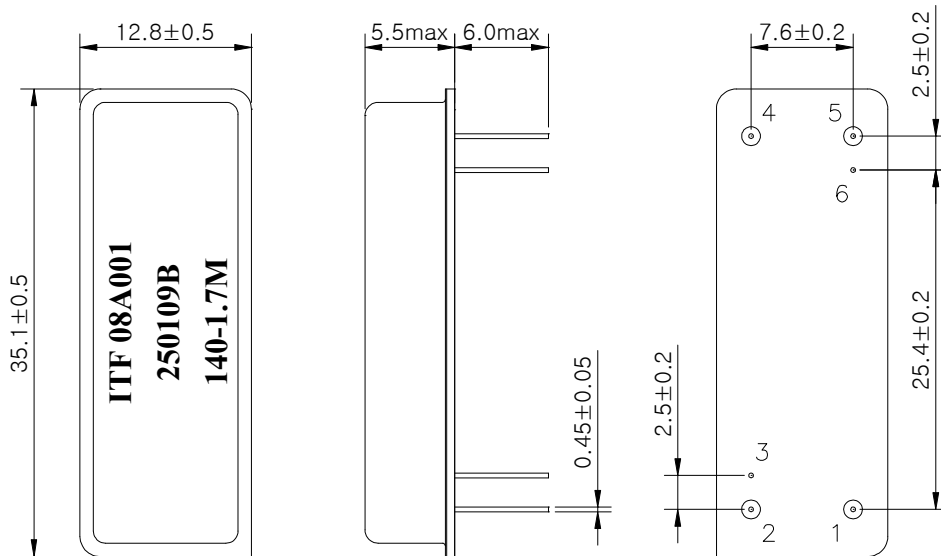
# SAW Bandpass Filter 250109B



## 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

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250109B	
		Rev. Date	2008-07-30	
		Rev.	NW8019-CS01	1/5

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## 3. Specifications

Fo = 140.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	140.0	-
Insertion Loss	dB	-	20.0	23.0
2dB Bandwidth	MHz	-	1.73	1.8
3dB Bandwidth	MHz	-	1.82	-
25dB Bandwidth	MHz	-	2.53	2.6
40dB Bandwidth	MHz	-	2.73	-
Amplitude Ripple (Fo +/- 0.65 MHz)	dB	-	0.3	0.9
Group Delay Variation (Fo +/- 0.65 MHz)	nsec	-	150	250
Absolute Delay	usec	-	3.17	-
Ultimate Rejection	dB	50	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

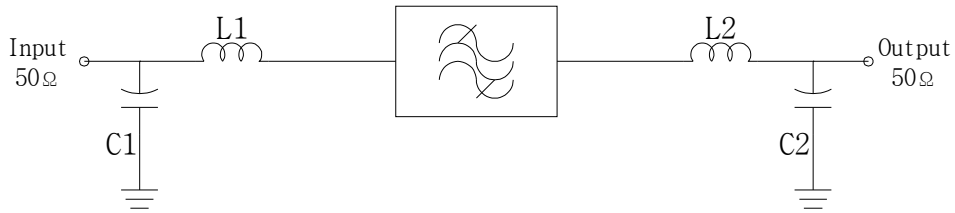
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## 4. Matching Schematic

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




$L1 = L2 = 56 \text{ nH}$   
 $C1 = 39 \text{ pF}, C2 = 30 \text{ pF}$

## 5. Marking Configuration

ITF<sup>1)</sup>08A001<sup>2)</sup>  
250109B<sup>3)</sup>  
140<sup>4)</sup>-1.7M<sup>5)</sup>

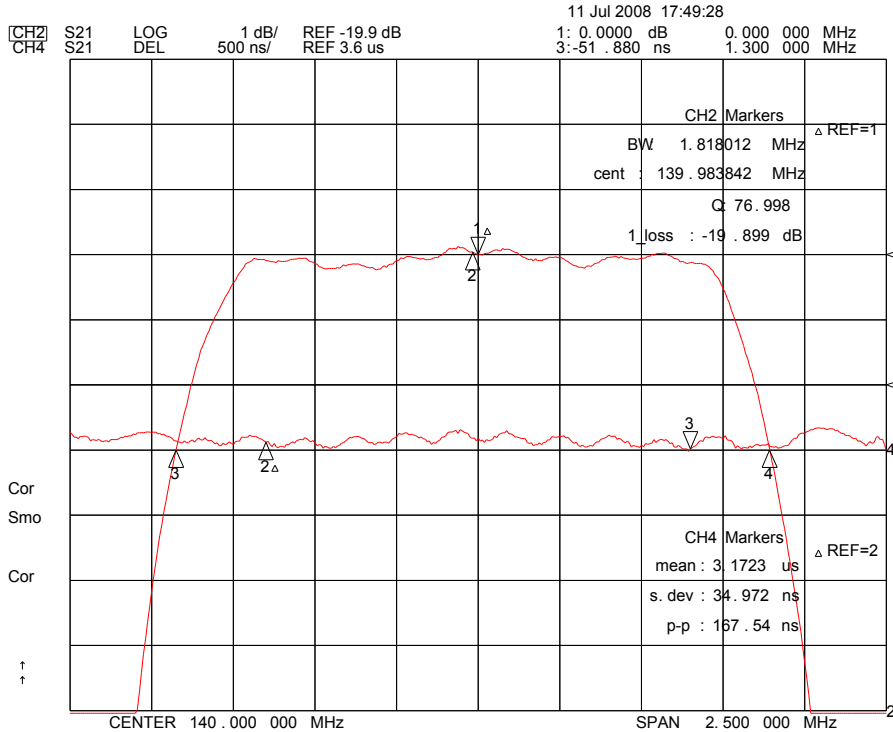
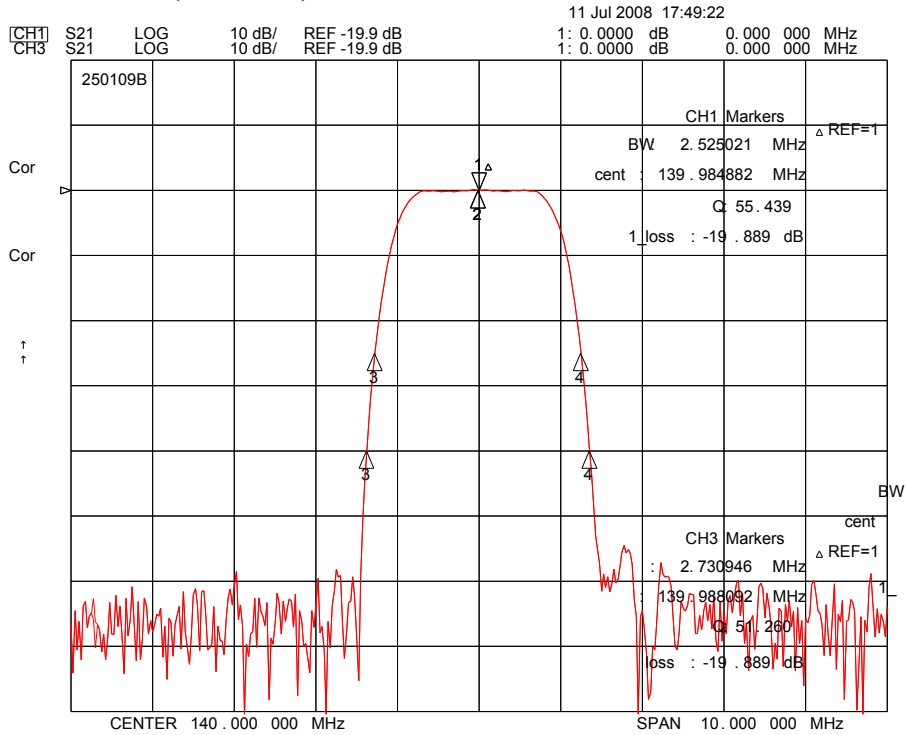
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 2dB-Bandwidth

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



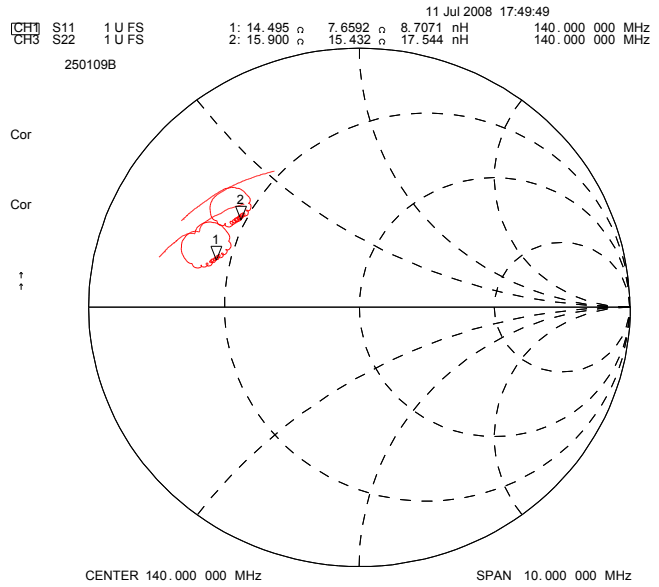
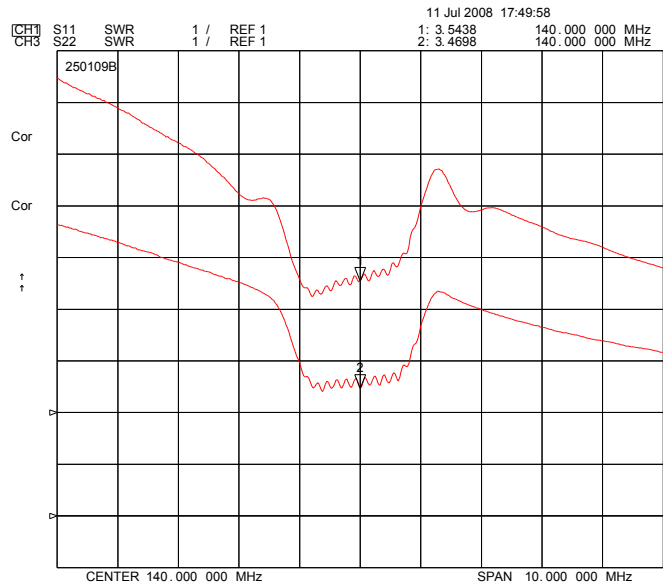
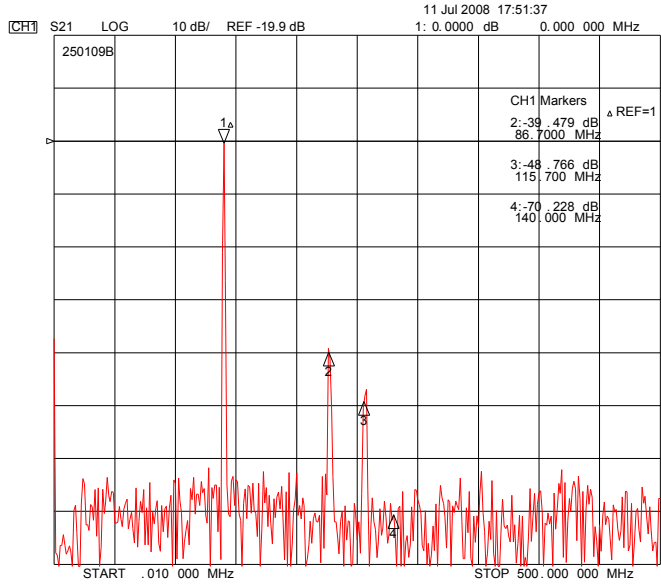
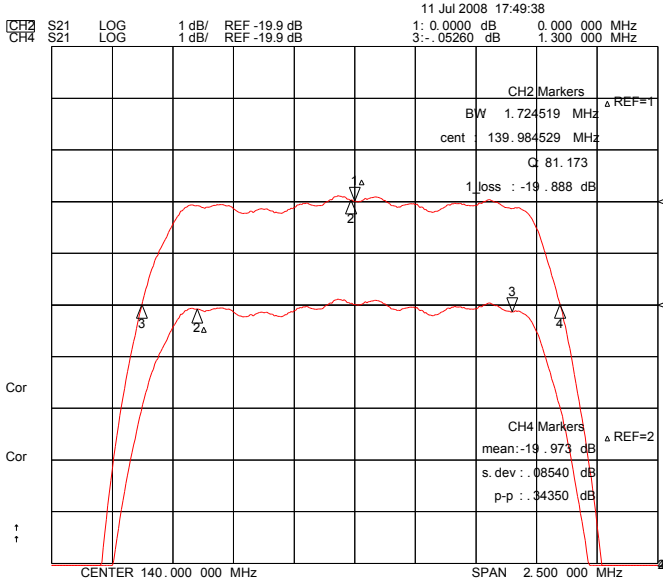
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