

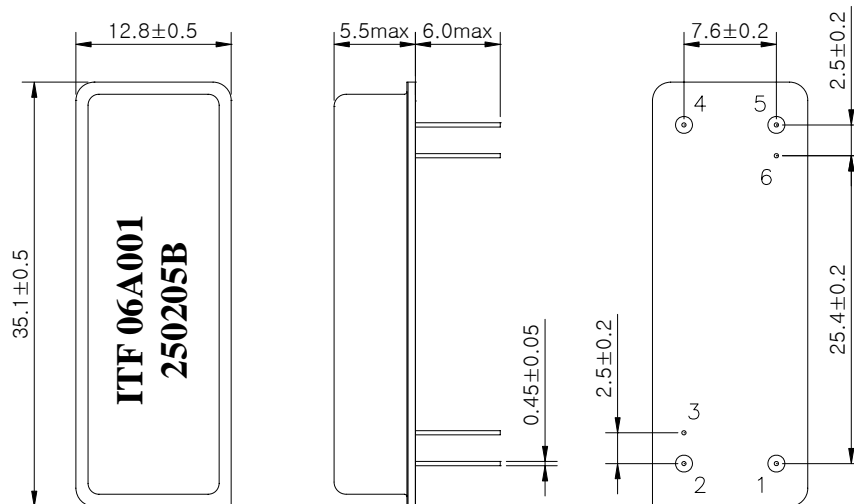
# SAW Bandpass Filter 250205B



## 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.	250205B	
		Rev. Date	2006-07-11	
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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	139.95	140.0	140.05
Insertion Loss	dB	-	23.5	25.0
1.5dB Bandwidth	MHz	2.0	2.16	-
30dB Bandwidth	MHz	-	2.74	2.8
45dB Bandwidth	MHz	-	2.84	3.2
Amplitude Ripple (Fo +/- 0.95 MHz)	dB	-	0.3	1.0
Group Delay Variation (Fo +/- 0.95 MHz)	nsec	-	210	-
Absolute Delay	usec	-	4.6	5.0
Relative attenuation				
2.0 +/- 0.4 MHz	dB	25	30	
2.0 +/- 0.6 MHz	dB	45	50	
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

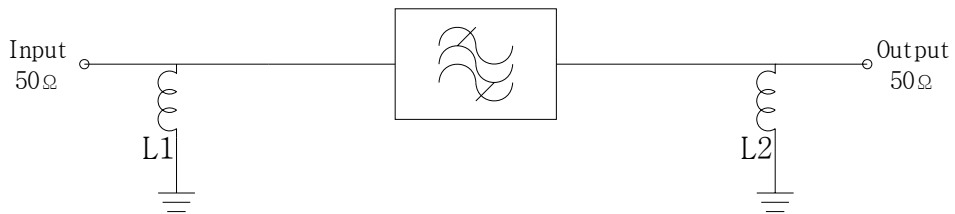
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## 4. Matching Schematic

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



$$L1 = L2 = 39 \text{ nH}$$

## 5. Marking Configuration

ITF<sup>1)</sup> 06A001<sup>2)</sup>  
250205B<sup>3)</sup>

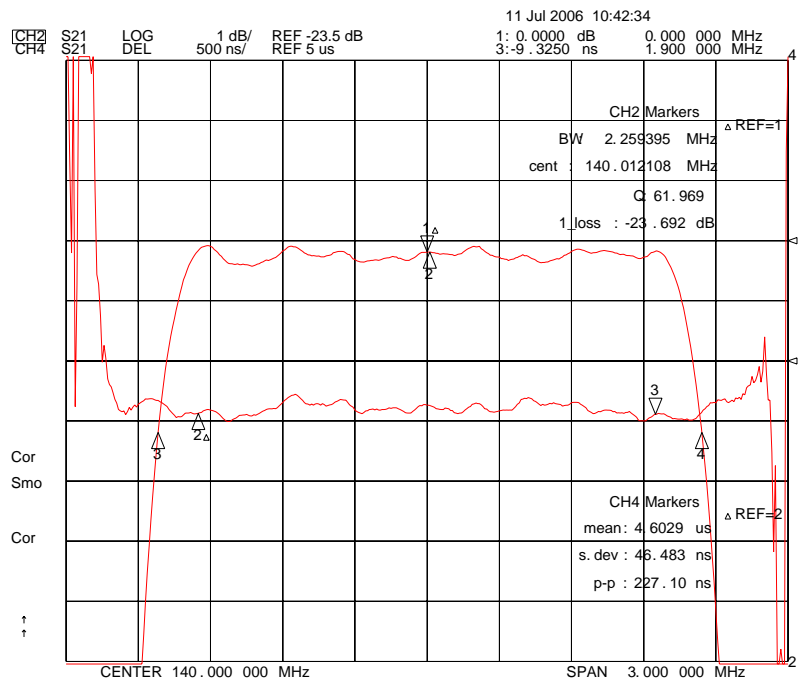
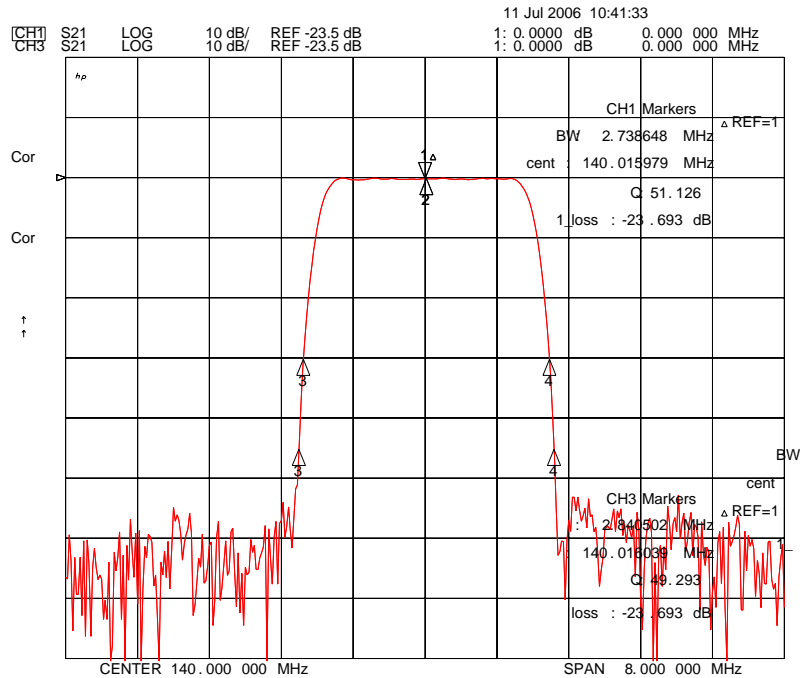
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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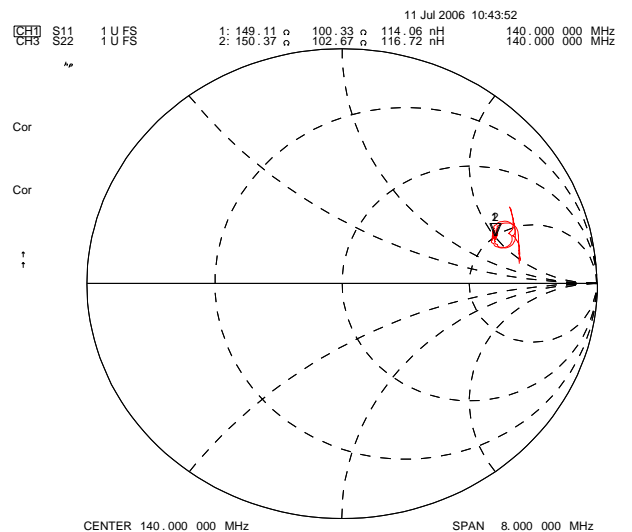
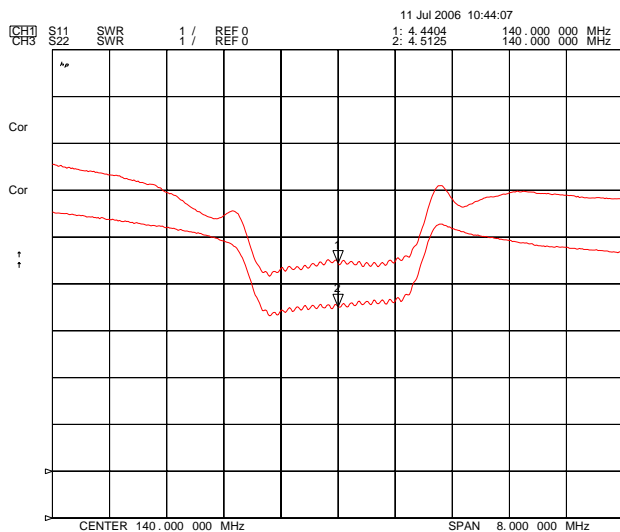
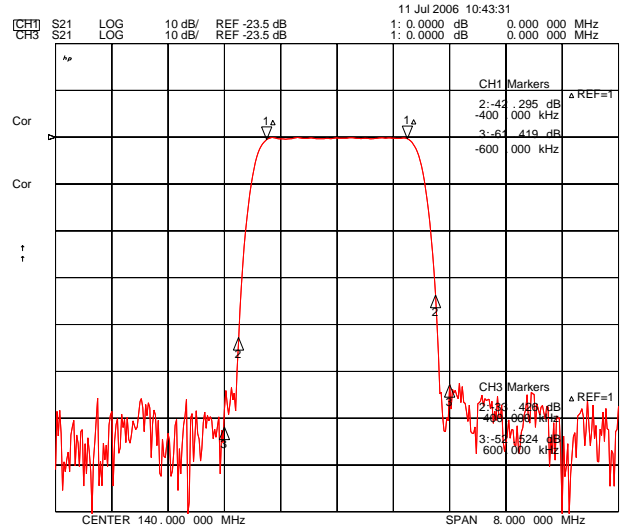
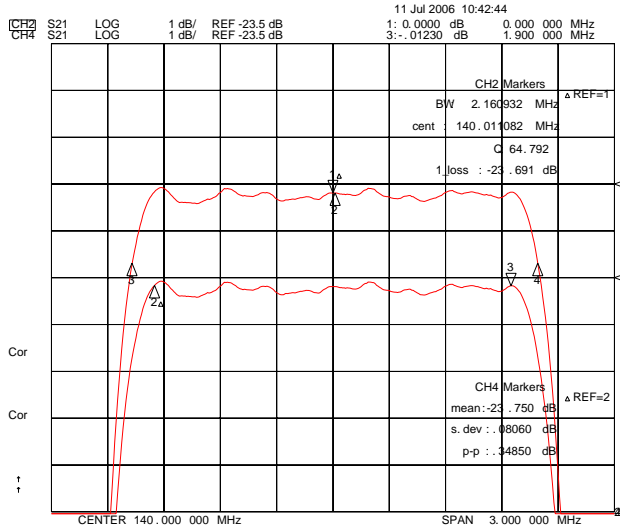


## 6. Typical Performance ( at +25°C )



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