

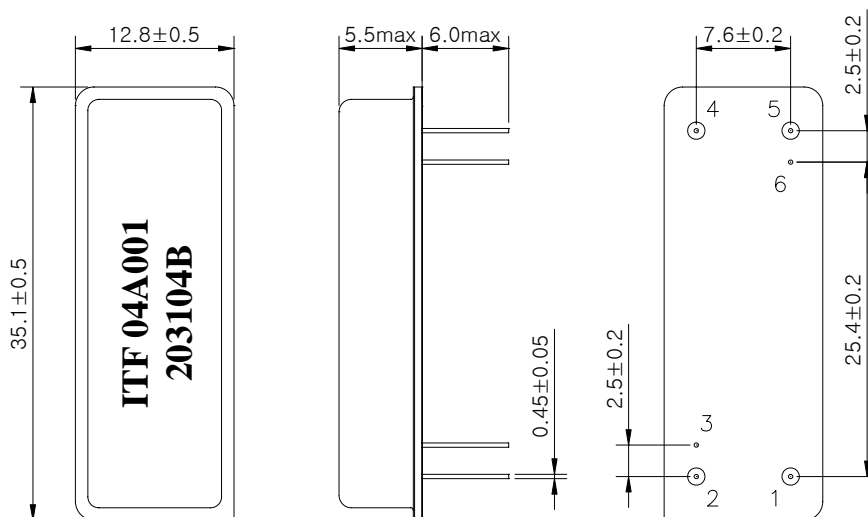
# SAW Bandpass Filter 203104B



## 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.	203104B	
		Rev. Date	2004-04-21	
		Rev.	NI1009-CS04	1/5

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## 3. Specifications

Fo = 44.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	43.95	44.0	44.05
Insertion Loss	dB	-	22.0	24.0
1dB Bandwidth	MHz	-	5.45	-
3dB Bandwidth	MHz	5.65	5.70	-
40dB Bandwidth	MHz	-	6.6	6.7
Amplitude Ripple (Fo +/- 2.5 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 2.5 MHz)	nsec	-	80	150
Absolute Delay	usec	-	3.84	-
Ultimate Rejection	dB	45	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

### 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

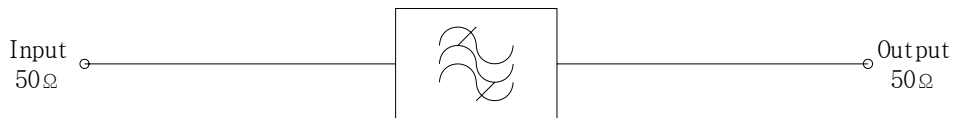
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203104B	
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## 4. Matching Schematic

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



## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
203104B<sup>3)</sup>

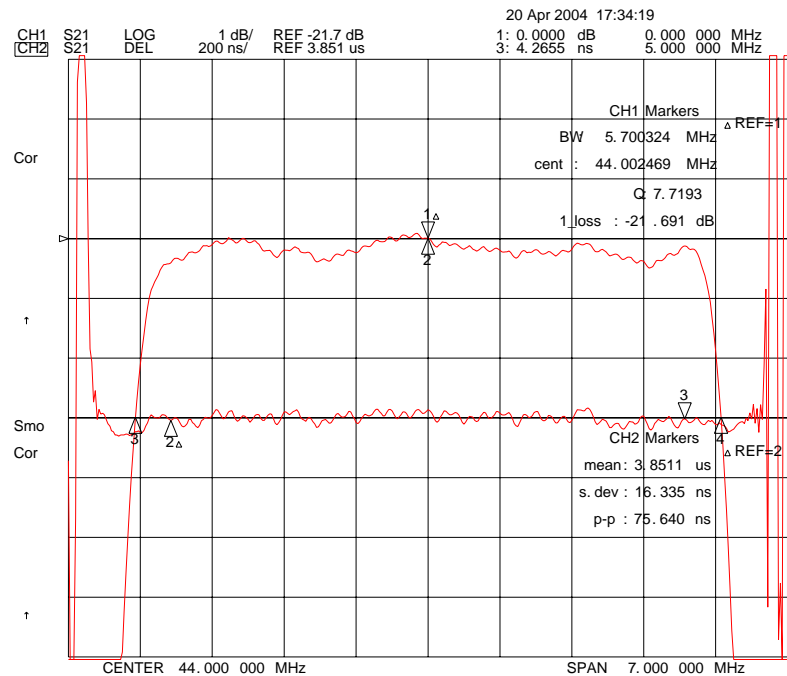
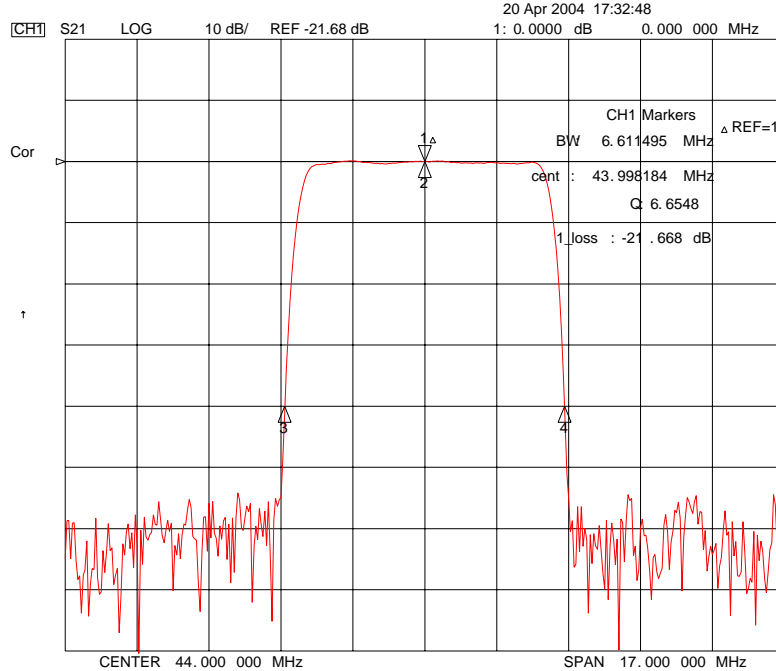
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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



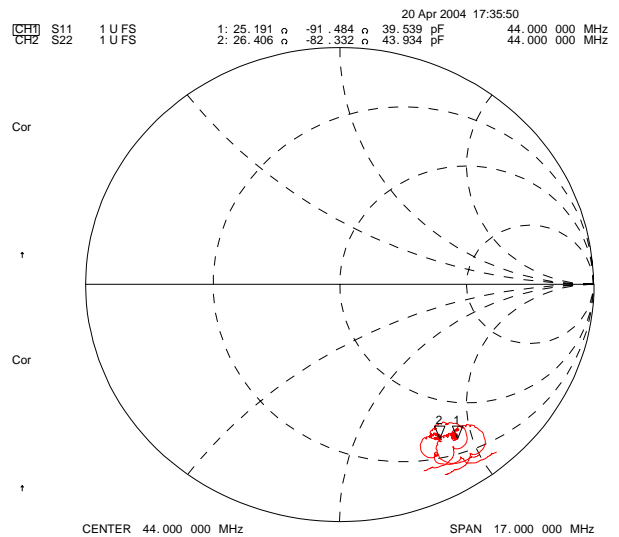
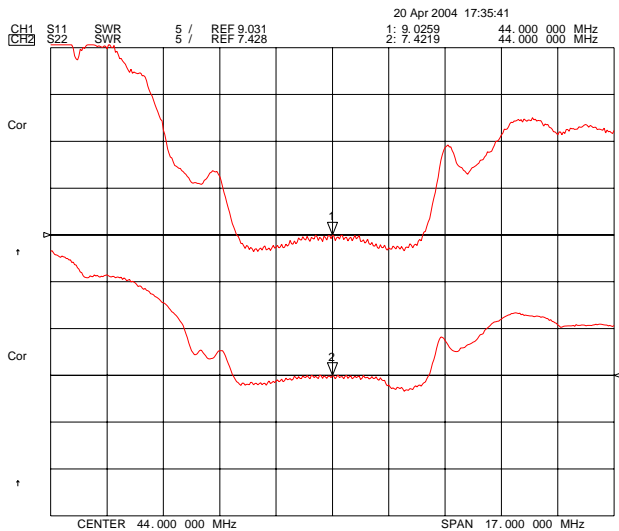
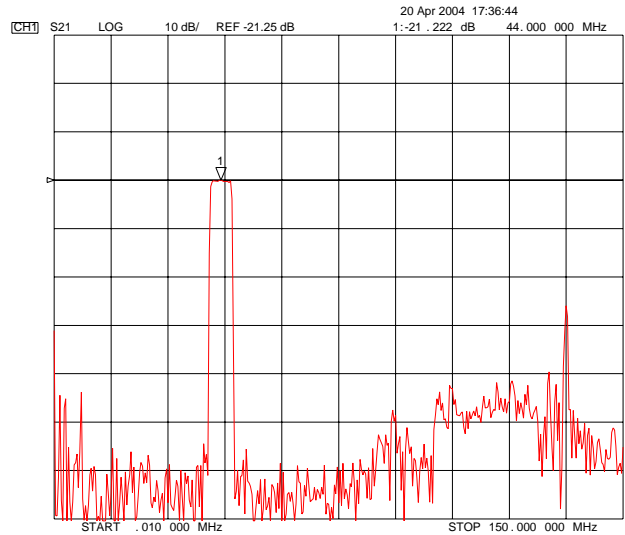
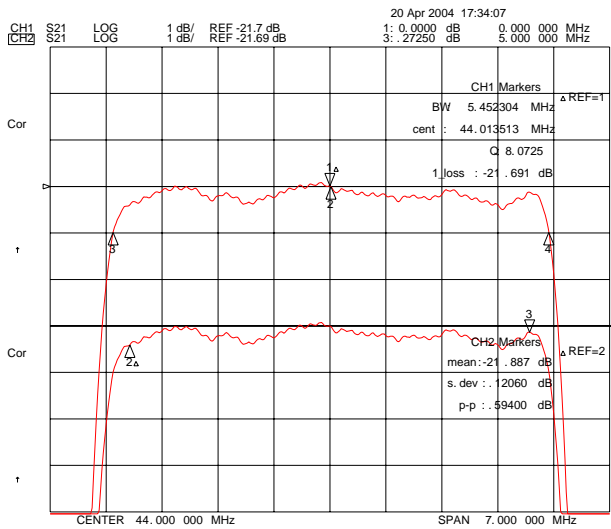
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