

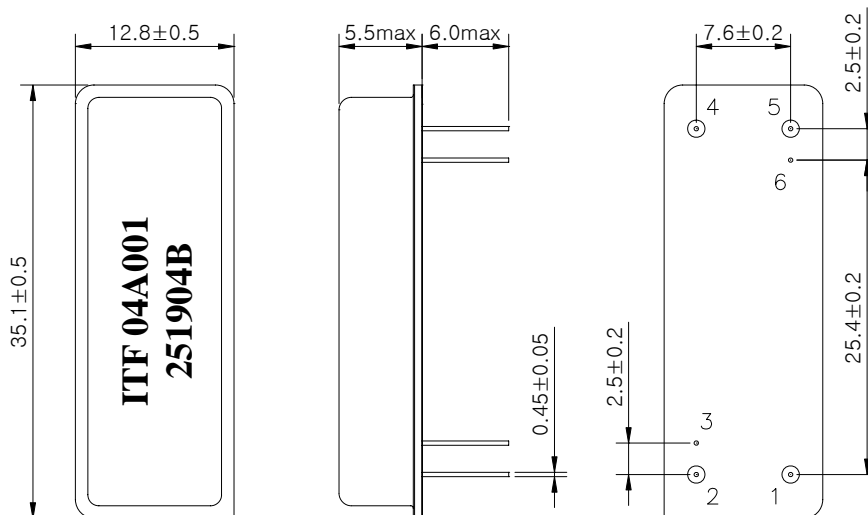
# SAW Bandpass Filter 251904B



## 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.	251904B	
		Rev. Date	2004-07-09	
		Rev.	NM4016-CS02	1/5

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## 3. Specifications

Fo = 120.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	119.9	120.0	120.1
Insertion Loss	dB	-	29.5	31.0
1dB Bandwidth	MHz	-	18.87	-
3dB Bandwidth	MHz	19.0	19.1	-
50dB Bandwidth	MHz	-	20.2	20.4
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.7	1.2
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	50	100
Absolute Delay	usec	-	4.04	-
Relative Attenuation				
at 100.0 to 109.5 MHz	dB	50	52	-
at 109.5 to 110.0 MHz	dB	25	30	-
at 130.0 to 130.5 MHz	dB	25	30	-
at 130.5 to 140.0 MHz	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-23	-

### 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

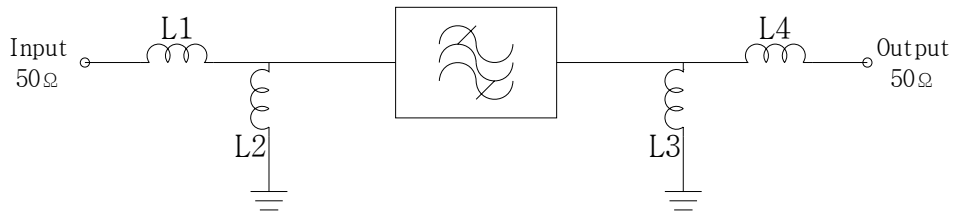
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## 4. Matching Schematic

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



$$L1 = L4 = 47 \text{ nH}$$

$$L2 = L3 = 82 \text{ nH}$$

## 5. Marking Configuration


ITF<sup>1)</sup>04A001<sup>2)</sup>

251904B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

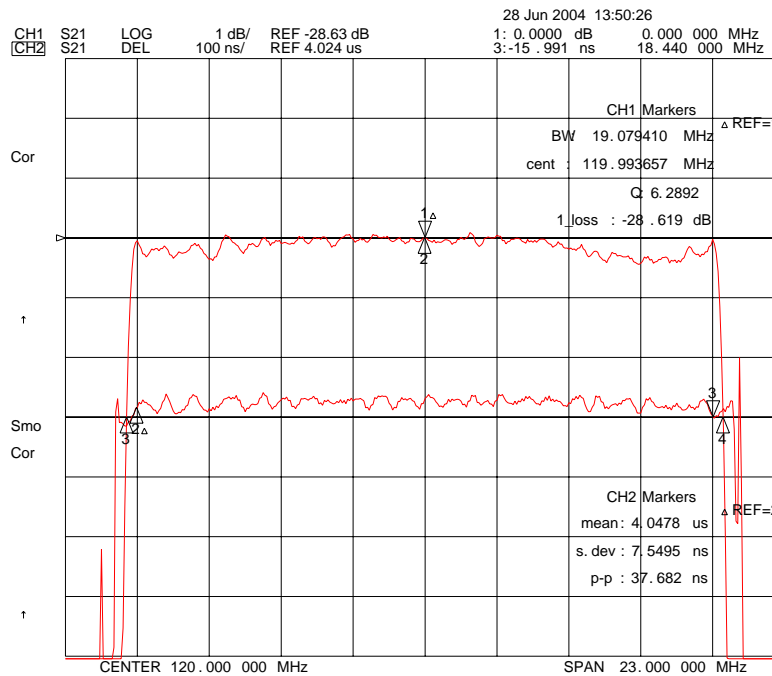
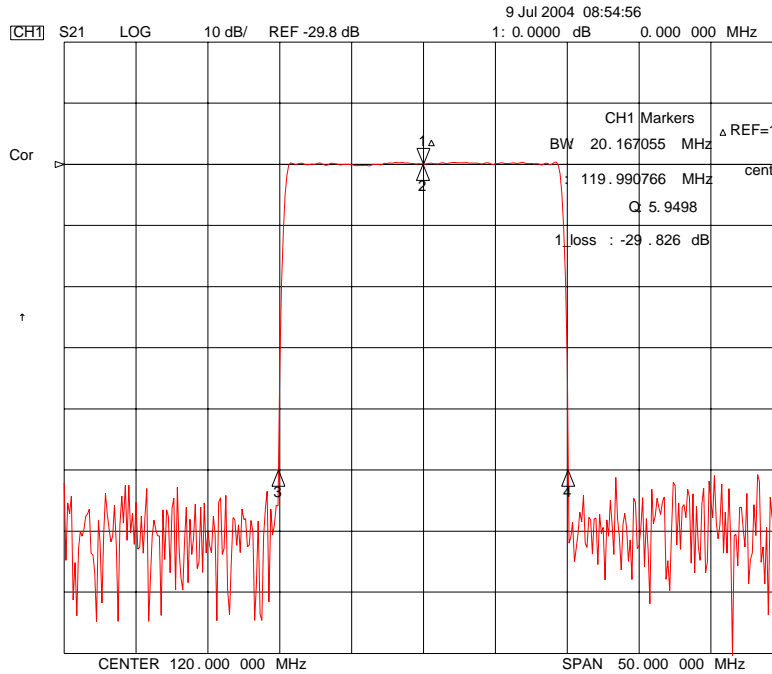
3) Part Number

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



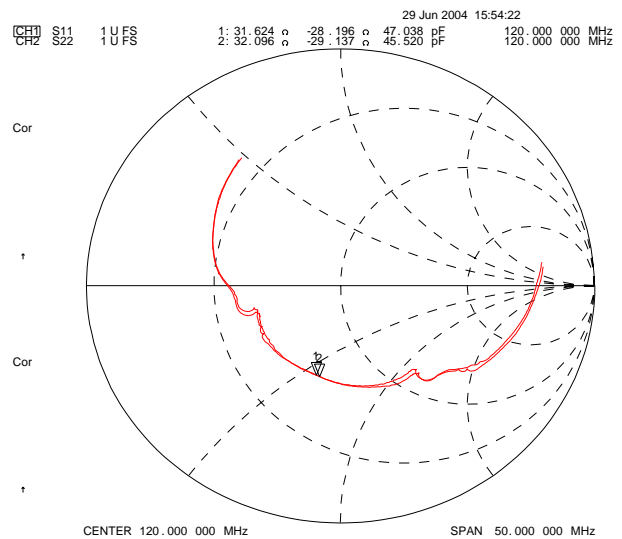
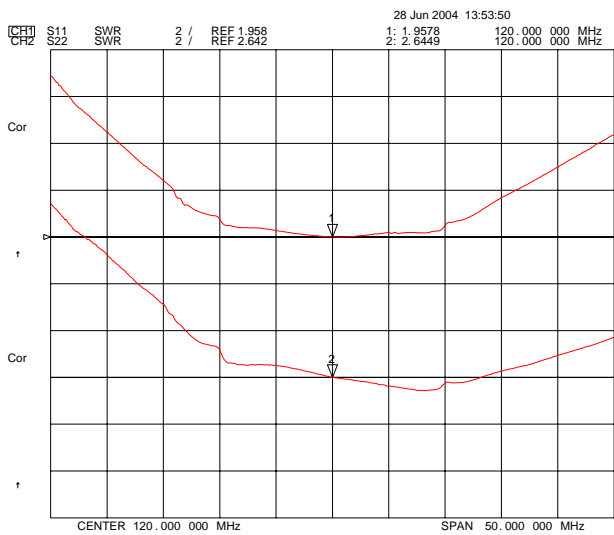
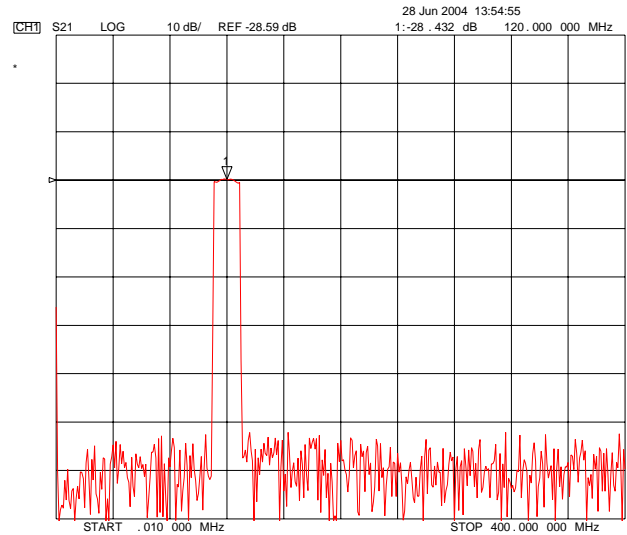
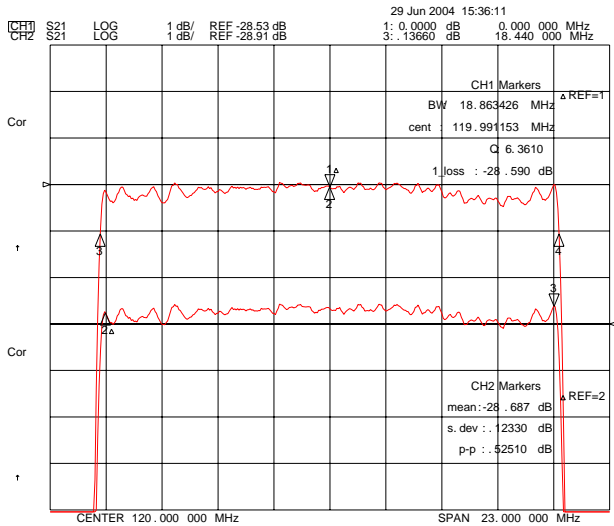
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