

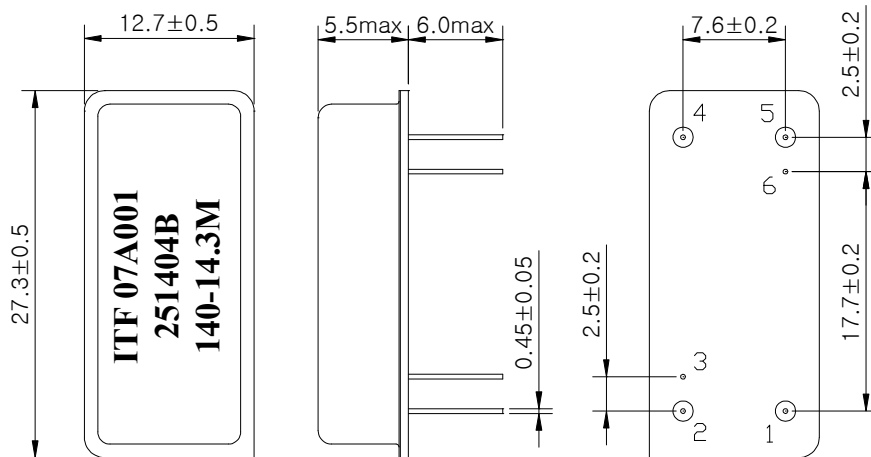
# SAW Bandpass Filter 251404B



## 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 : D2712


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.	251404B	
		Rev. Date	2007-11-17	
		Rev.	NM7033-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

Room Temperature : +25°C		Minimum	Typical	Maximum
Center Frequency	MHz	-	140.0	-
Insertion Loss	dB	-	23.6	26.0
1dB Bandwidth	MHz	-	14.25	-
3dB Bandwidth	MHz	14.55	14.63	-
40dB Bandwidth	MHz	-	16.2	16.3
Amplitude Ripple (fo±6.875 MHz)	dB	-	0.57	1.0
Group Delay Variation (fo±6.875 MHz)	nsec	-	40	100
Absolute Delay	usec	-	3.34	-
Ultimate Rejection	dB	50	58	-
Out of Band-Gain				
Fc+/-8.5	dB	55	60	
Temperature Coefficient of Frequency	ppm/°C	-	-18	-

### 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

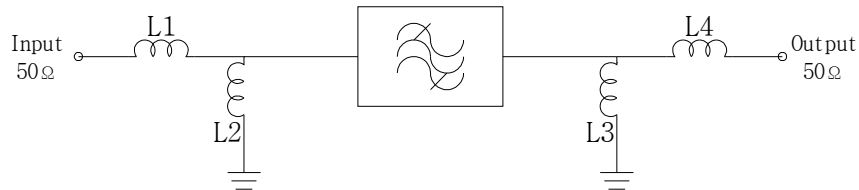
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## 4. Matching Schematic

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



L1 = 33nH, L2 = 33nH

L3 = 47nH, L4 = 33nH


## 5. Marking Configuration

ITF<sup>1)</sup> 07A001<sup>2)</sup>

251404B<sup>3)</sup>

140<sup>4)</sup>-14.3M<sup>5)</sup>

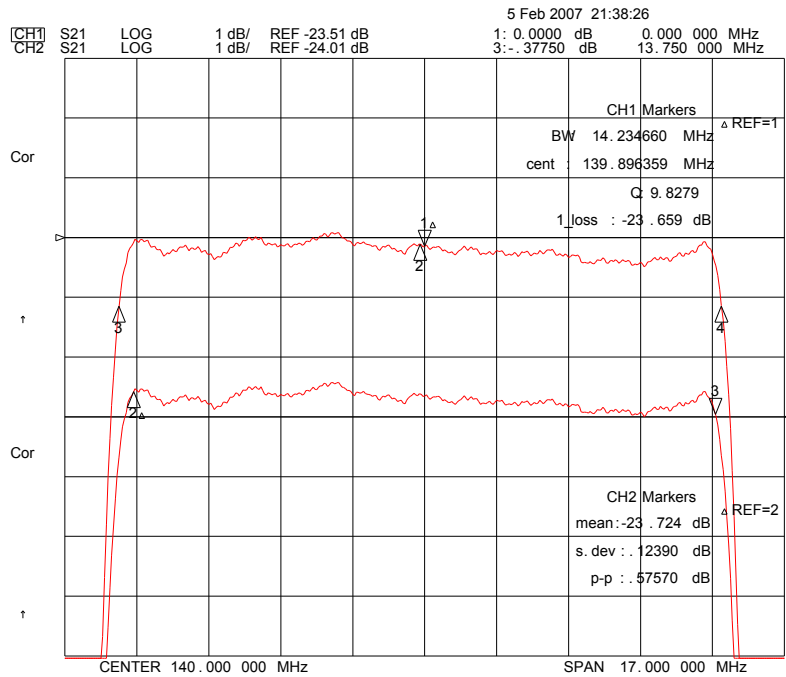
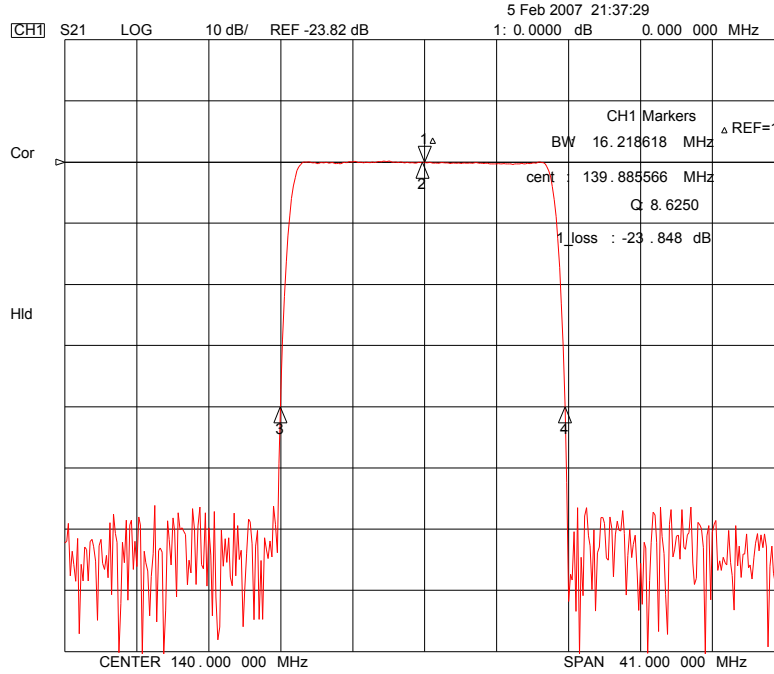
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

 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.	251404B	
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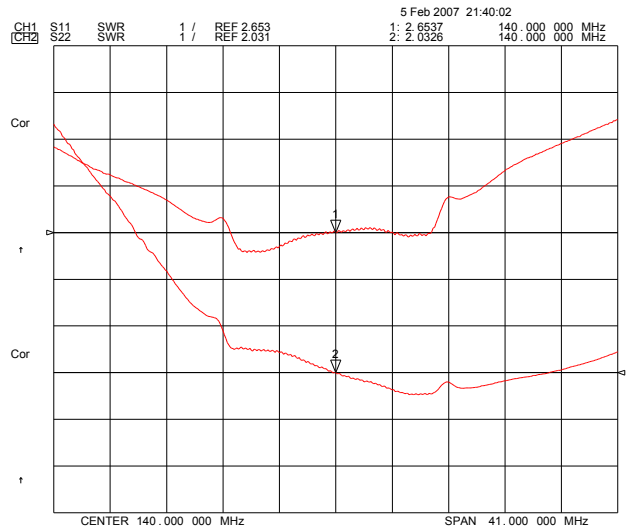
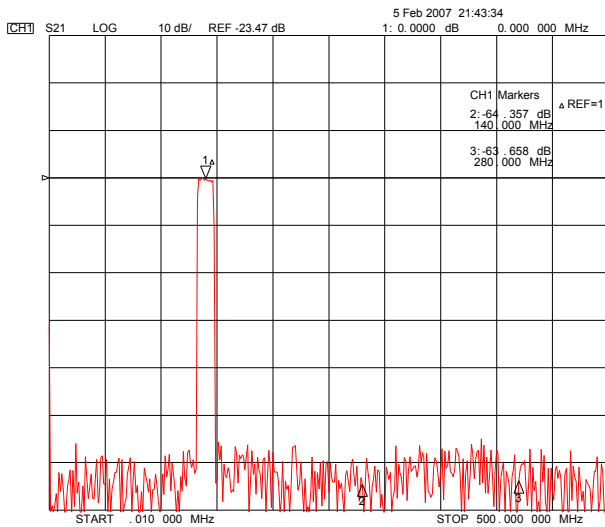
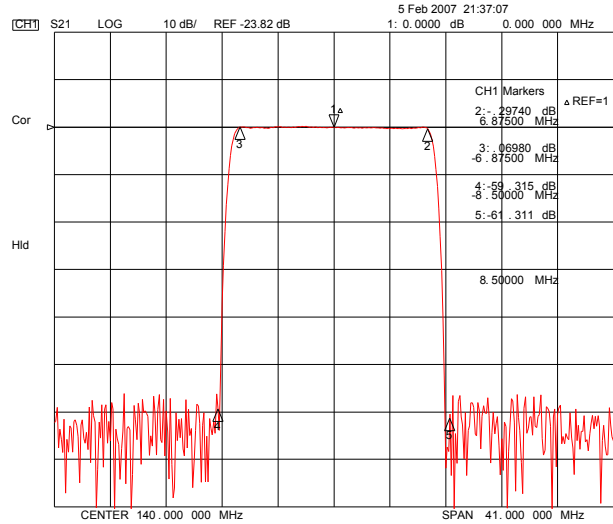
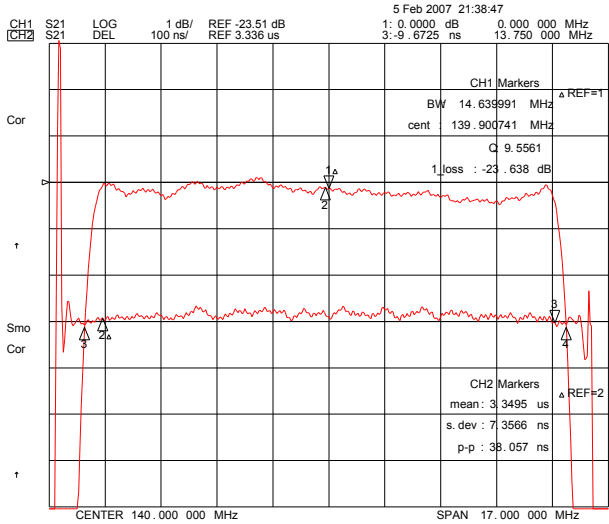
## 6. Typical Performance ( at +25°C )



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