

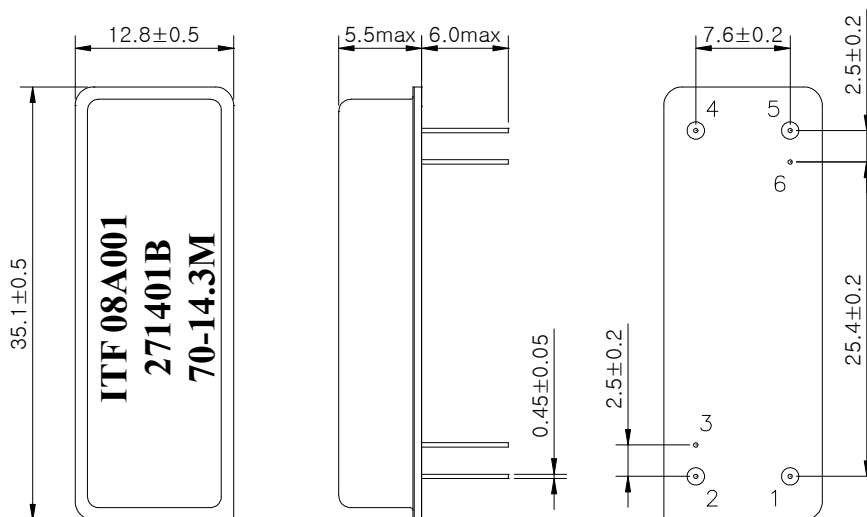
# SAW Bandpass Filter 271401B



## 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

 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.	271401B	
		Rev. Date	2008-01-04	
		Rev.	NM7061-CS01	1/5

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## 3. Specifications

Fo = 70.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	70.0	-
Insertion Loss	dB	-	24.1	26.5
1dB Bandwidth	MHz	14.2	14.31	-
3dB Bandwidth	MHz	-	14.49	-
40dB Bandwidth	MHz	-	15.32	15.5
Amplitude Ripple (fo±6.9 MHz)	dB	-	0.72	1.0
Group Delay Variation (fo±6.9 MHz)	nsec	-	55	100
Absolute Delay	usec	-	3.35	-
Ultimate Rejection	dB	50	58	-
Relative Attenuation				
Fo ± 7.7MHz	dB	30	45	-
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

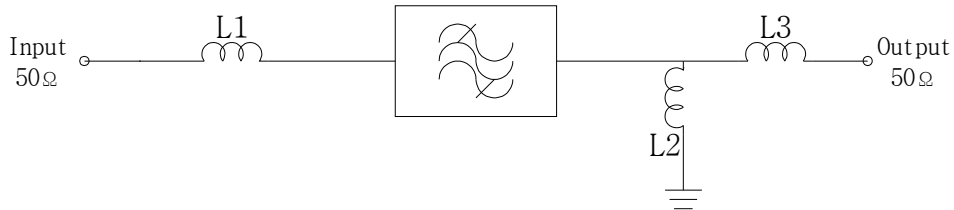
	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271401B	
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## 4. Matching Schematic

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



**L1 = 39nH, L2 = 180nH**

**L3 = 39nH**


## 5. Marking Configuration

ITF<sup>1)</sup> 08A001<sup>2)</sup>

271401B<sup>3)</sup>

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

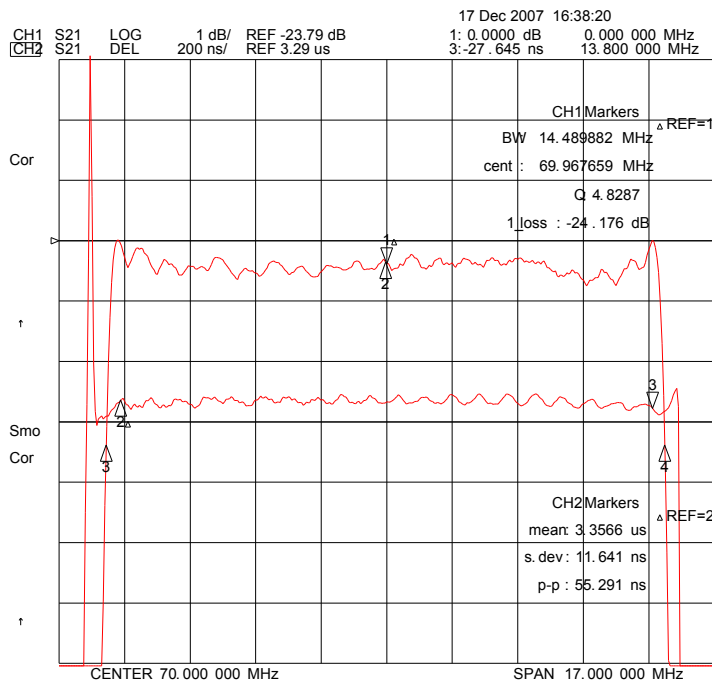
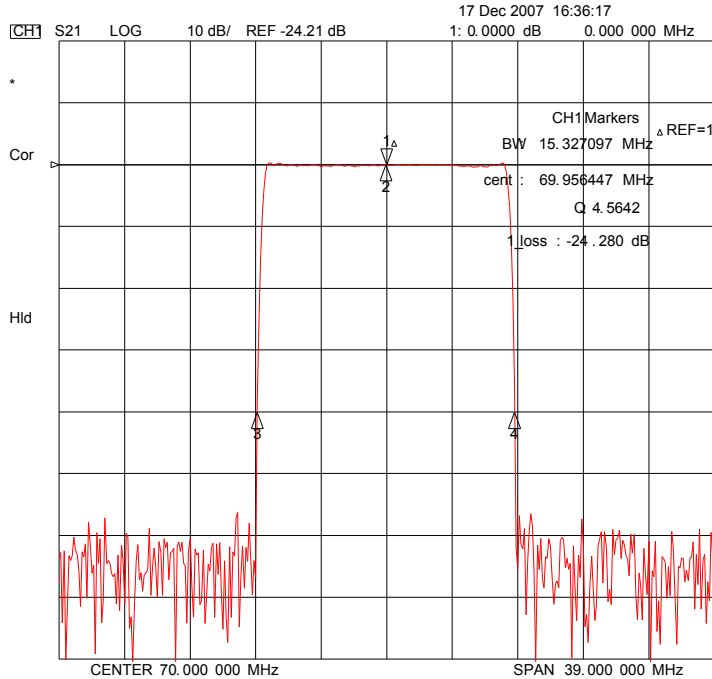
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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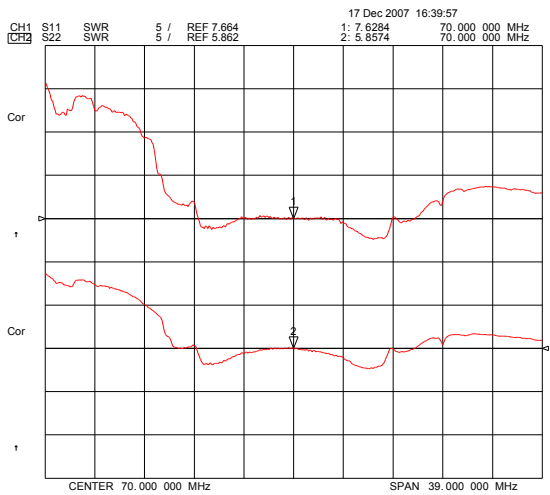
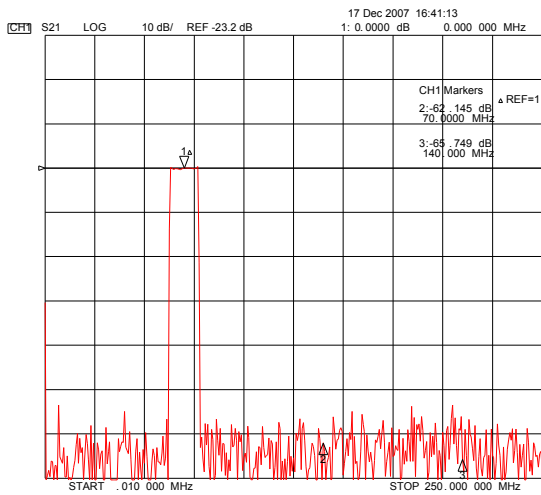
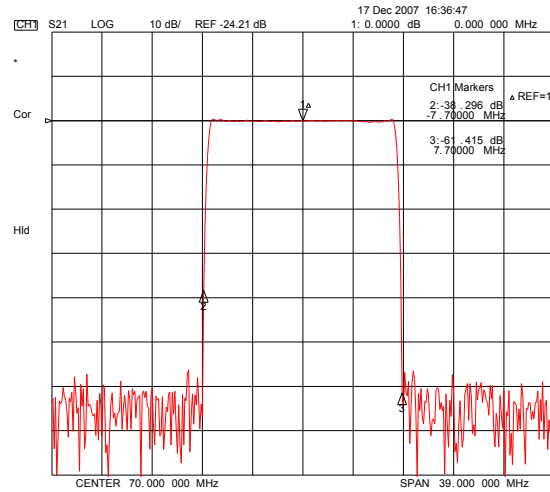
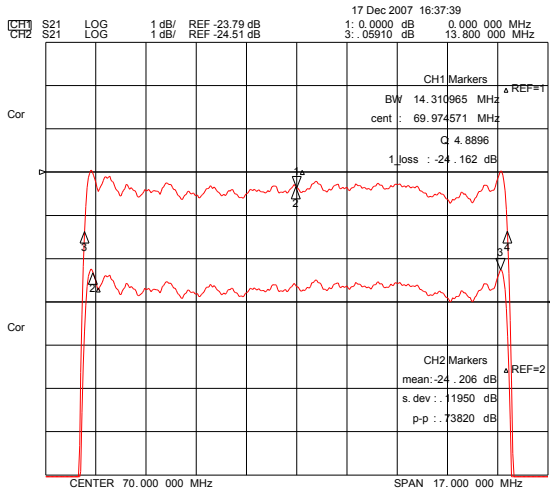
## 6. Typical Performance ( at +25°C )



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 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
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