

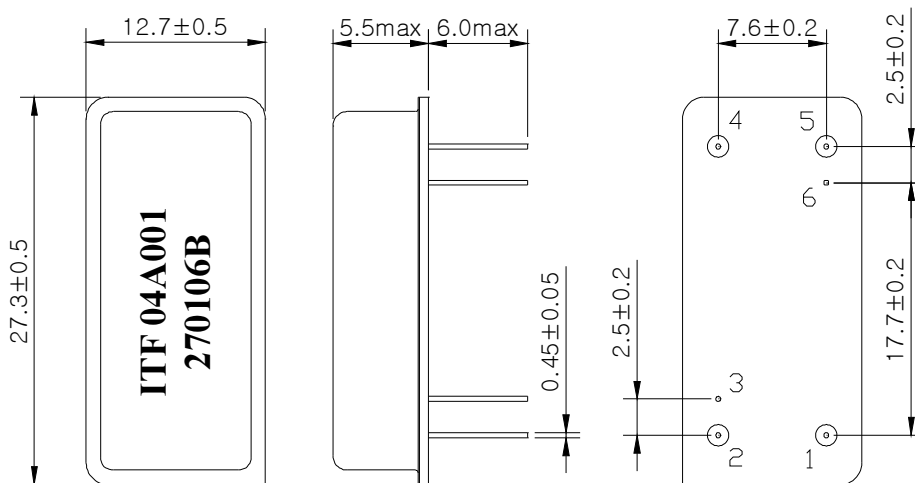
# SAW Bandpass Filter 270106B



## 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
4	Output
2, 5	Ground
Other	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.	270106B	
		Rev. Date	2004-12-02	
		Rev.	NW4014-CS01	1/5

# SAW Bandpass Filter 270106B



## 3. Specifications

F<sub>0</sub> = 70 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency	MHz	69.95	70.0	70.05
Insertion Loss	dB	-	21	24
1dB Bandwidth	MHz	1.23	1.28	-
3dB Bandwidth	MHz	1.4	1.47	-
40dB Bandwidth	MHz	-	2.25	2.4
Amplitude Ripple (F <sub>0</sub> +/- 0.5 MHz)	dB	-	0.4	1.0
Group Delay Variation (F <sub>0</sub> +/- 0.5 MHz)	nsec	-	150	250
Absolute Delay	usec	-	3.2	-
Ultimate Rejection	dB	50	55	-
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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

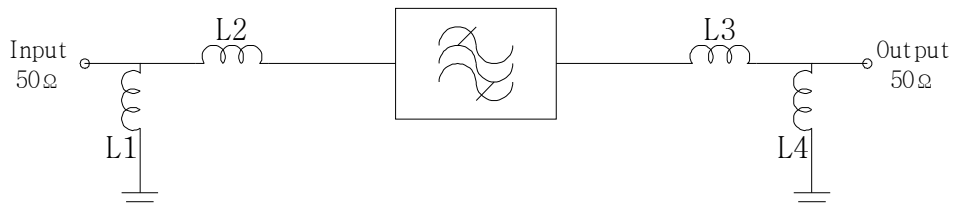
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		Rev.	NW4014-CS01	2/5

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## 4. Matching Schematic

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



$$L1 = L2 = L3 = L4 = 120 \text{ nH}$$

## 5. Marking Configuration

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

270106B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

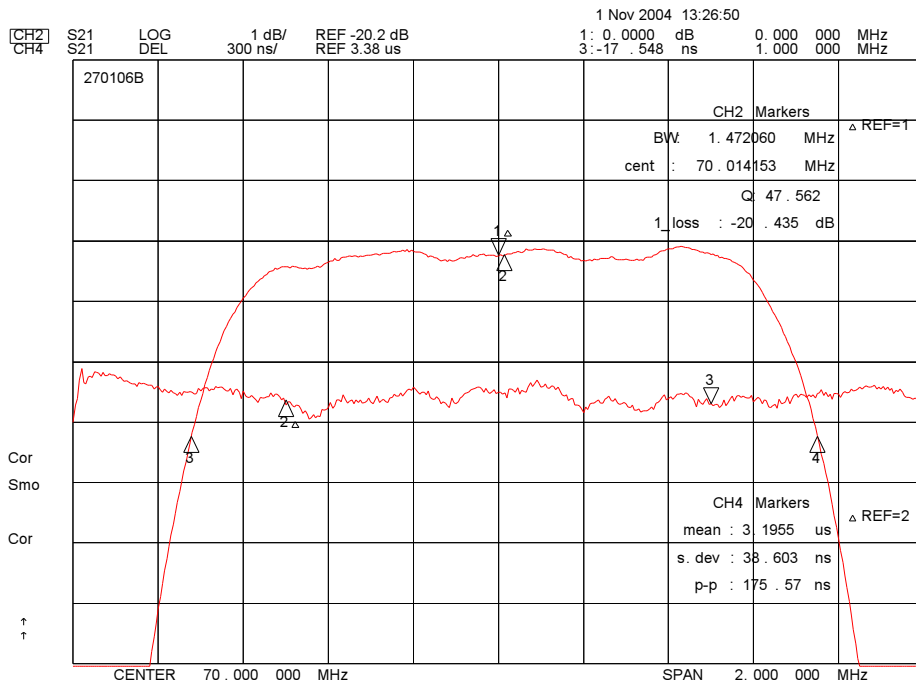
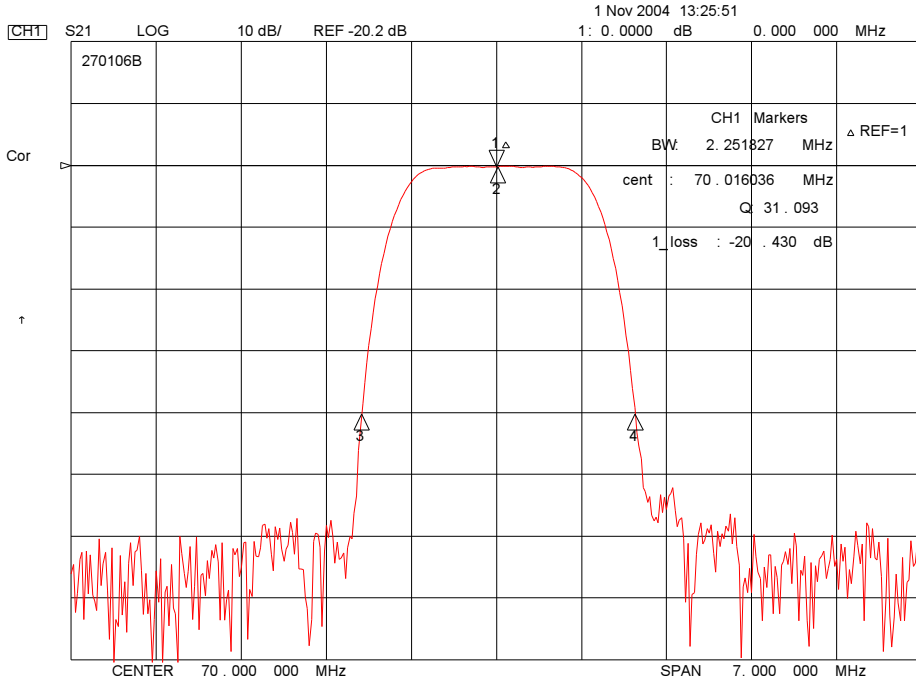
3) Part Number

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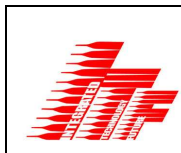
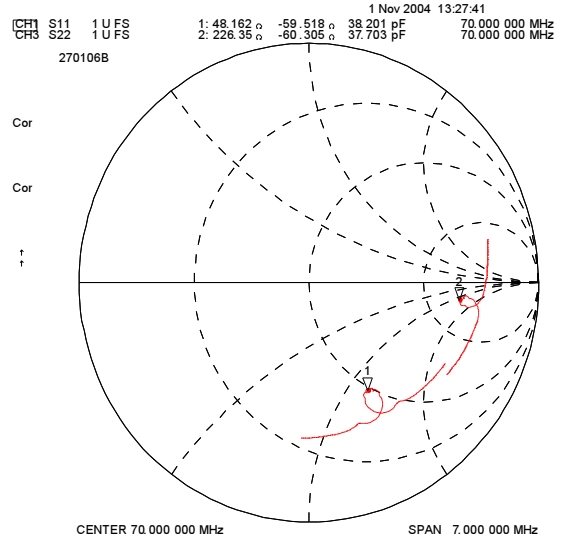
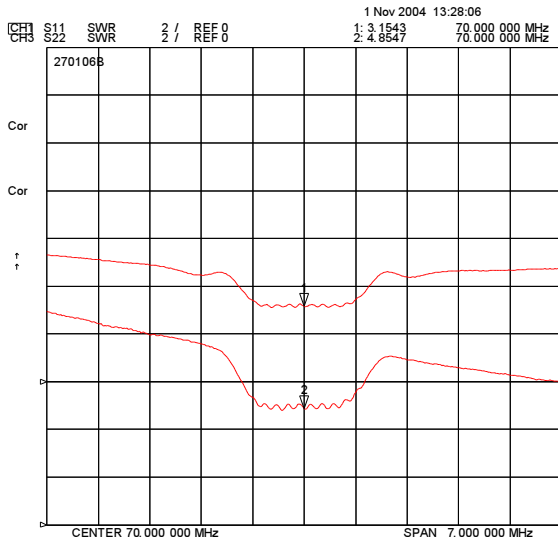
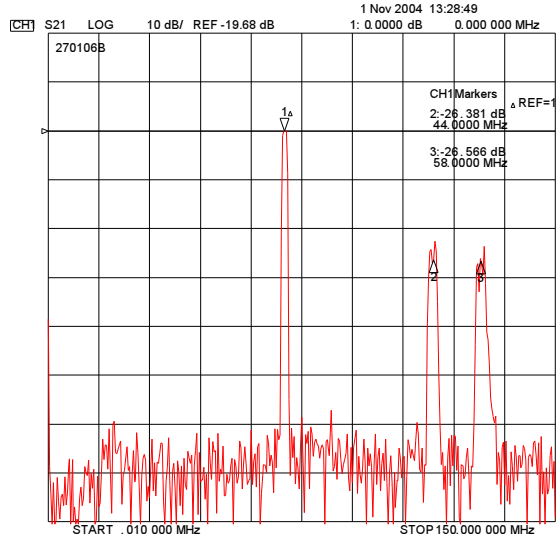
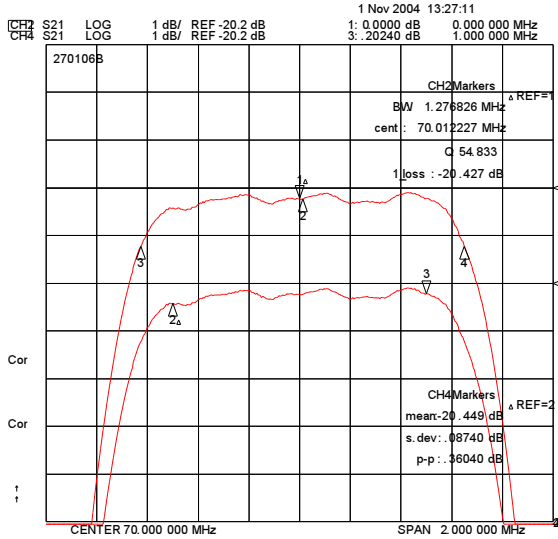


## 6. Typical Performance ( at +25°C )



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		Rev.	NW4014-CS01	4/5

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