

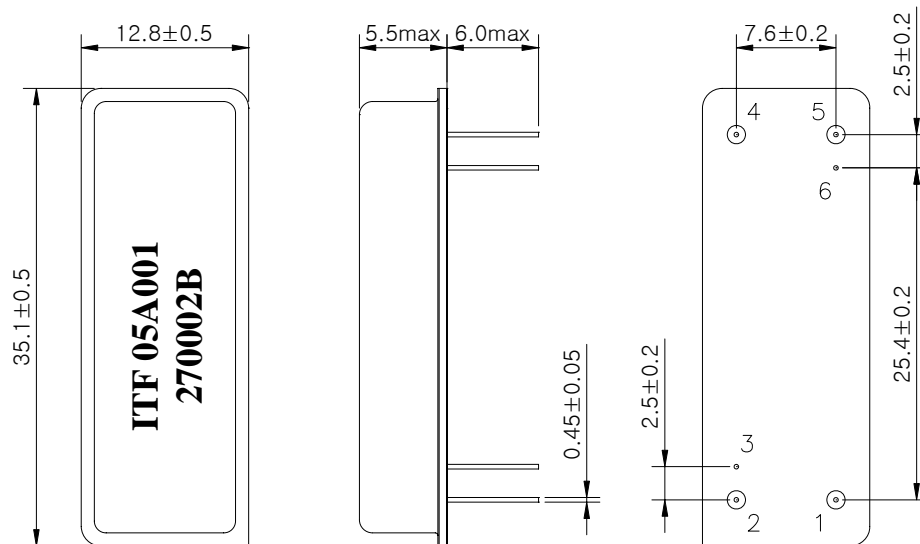
# SAW Bandpass Filter 270002B



## 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
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.	270002B	
		Rev. Date	2005-12-29	
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## 3. Specifications

Fo = 70 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10°C ~ +60°C		Minimum	Typical	Maximum
Center Frequency	MHz	69.965	70.0	70.035
Insertion Loss	dB	-	15.5	18.0
1dB Bandwidth	MHz	-	0.16	-
3dB Bandwidth	MHz	0.2	0.25	-
40dB Bandwidth	MHz	-	0.7	0.8
Group Delay Variation (Fo +/- 0.1 MHz)	nsec	-	450	550
Absolute Delay	usec	-	3.93	-
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

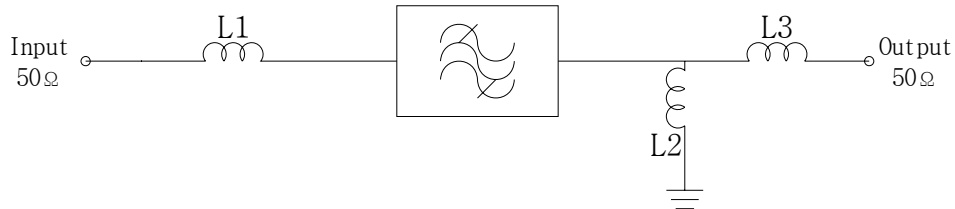
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## 4. Matching Schematic

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



L1 = L3 = 22 nH

L2 = 68 nH

## 5. Marking Configuration


ITF<sup>1)</sup>05A001<sup>2)</sup>

270002B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

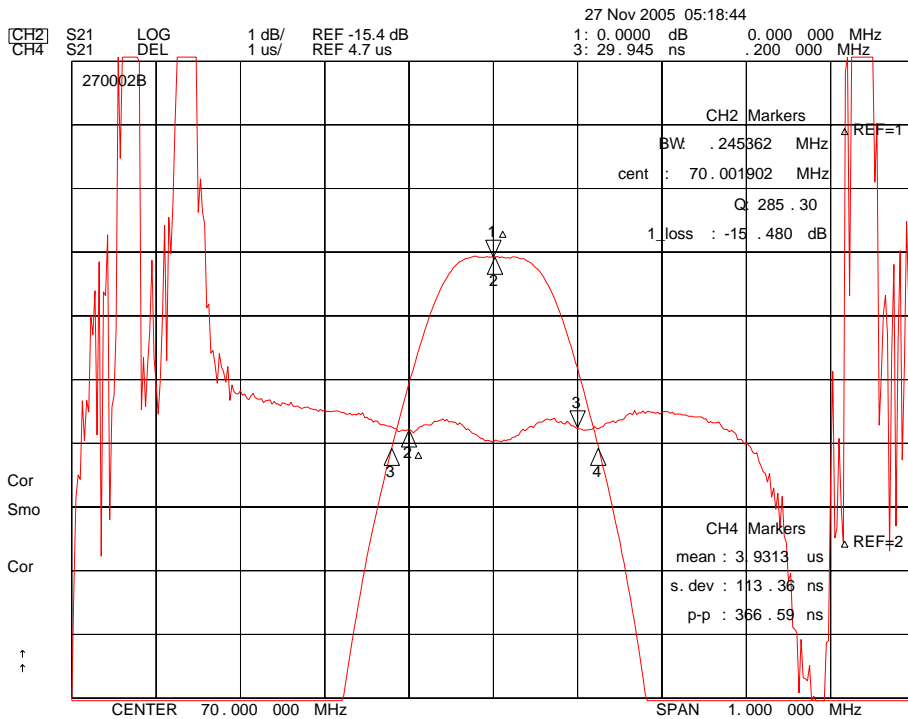
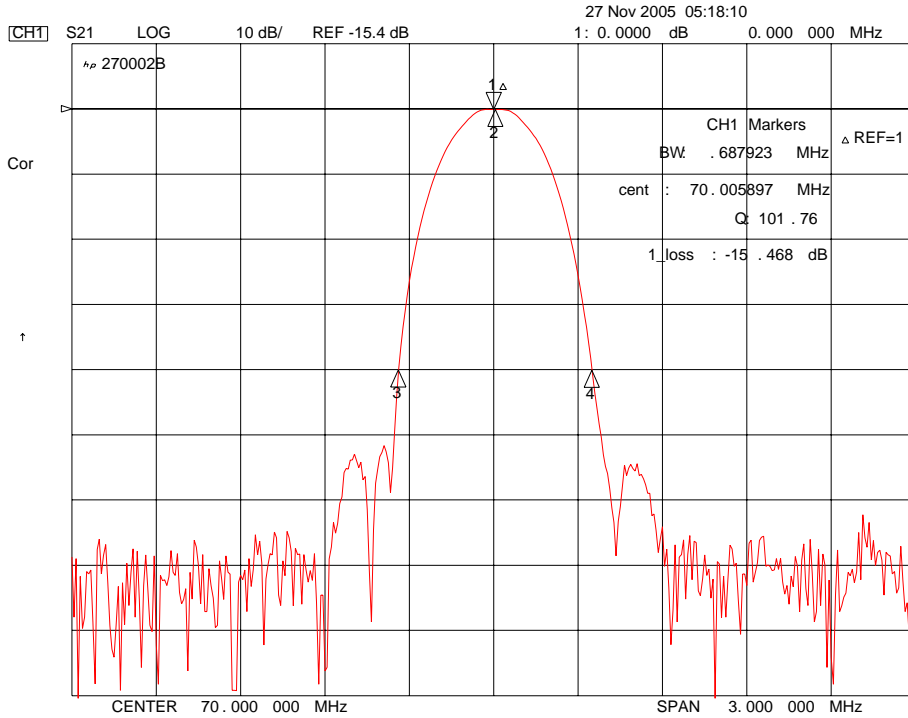
3) Part Number

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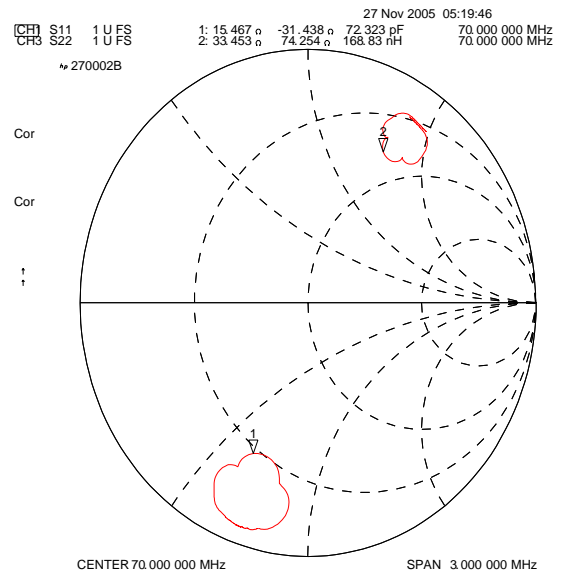
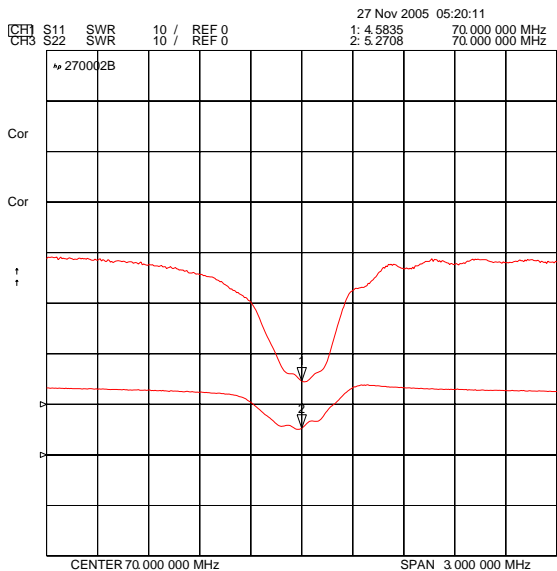
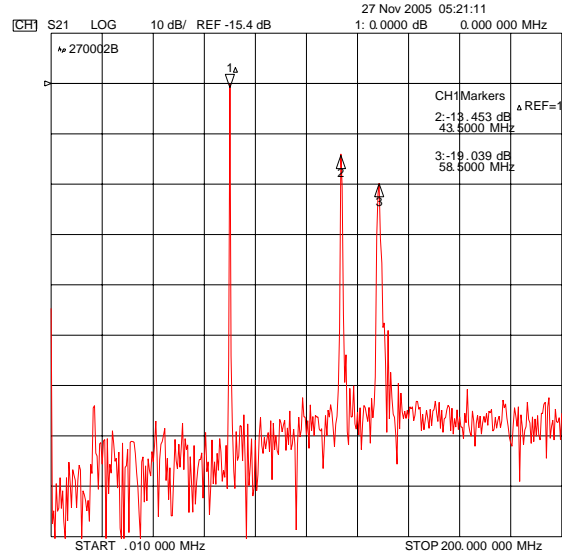
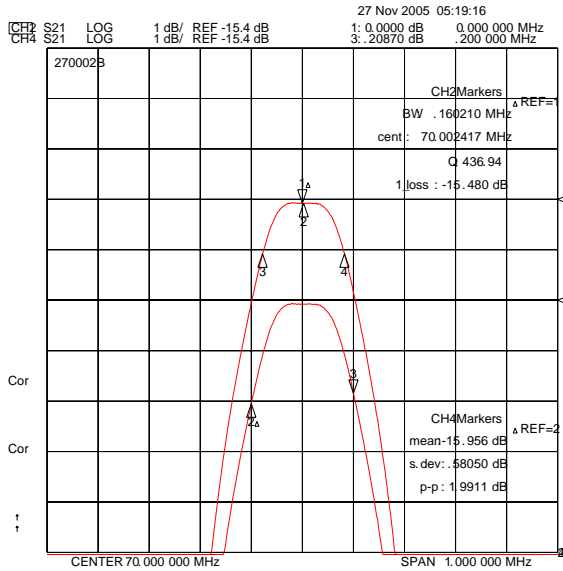


## 6. Typical Performance ( at +25°C )



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