

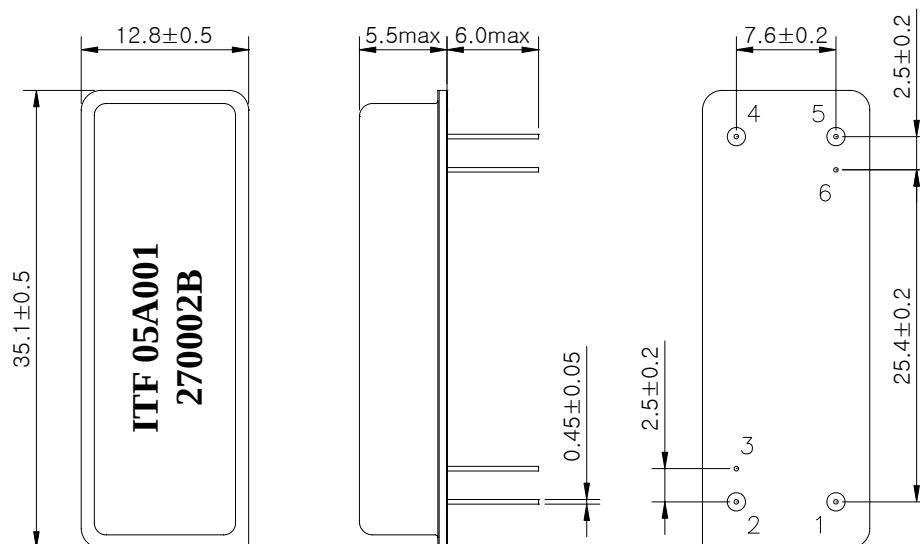
SAW Bandpass Filter 270002B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- 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

 Integrated Technology Future	ITF Co., Ltd. 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℃ ~ +60℃		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/℃ ²	-	-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

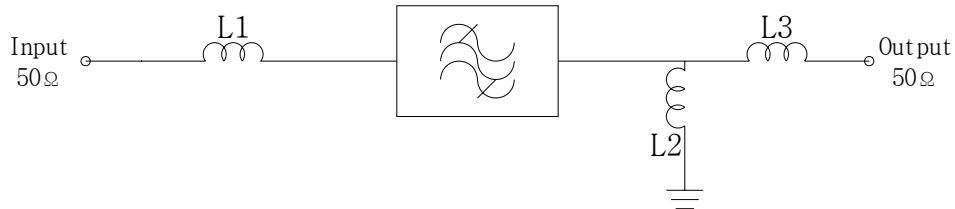
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4. Matching Schematic

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



$$L1 = L3 = 22 \text{ nH}$$

$$L2 = 68 \text{ nH}$$

5. Marking Configuration

ITF¹⁾05A001²⁾

270002B³⁾

1) Manufacturer name

2) Lot Number

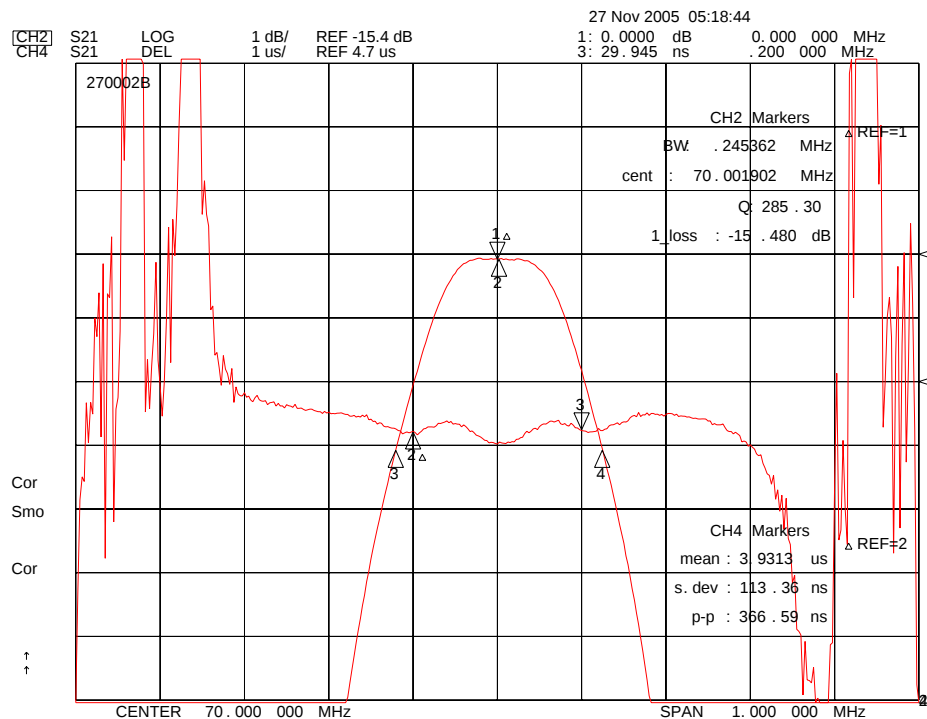
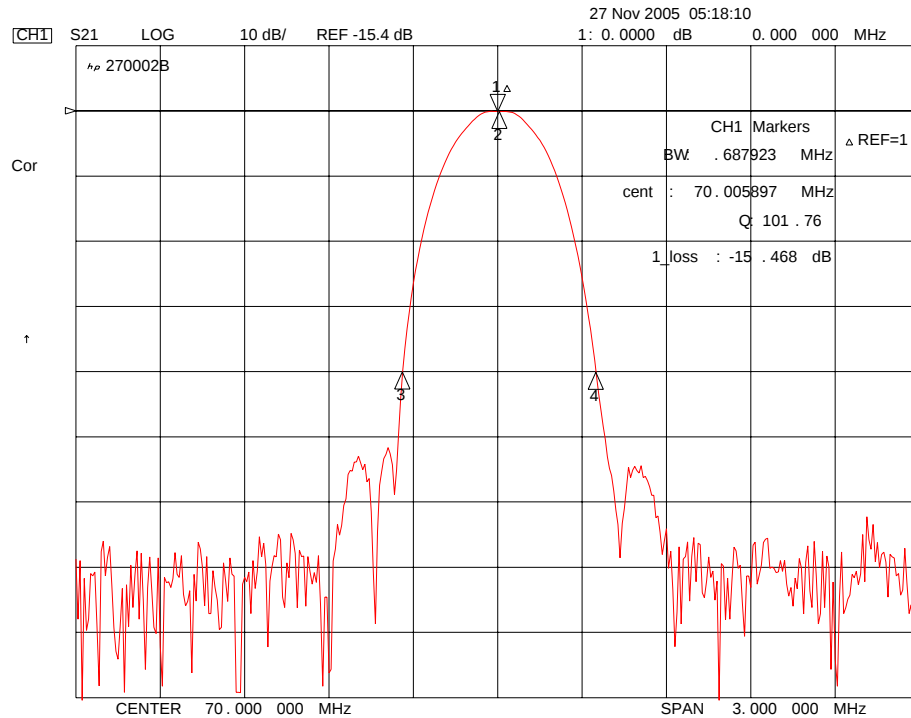
3) Part Number

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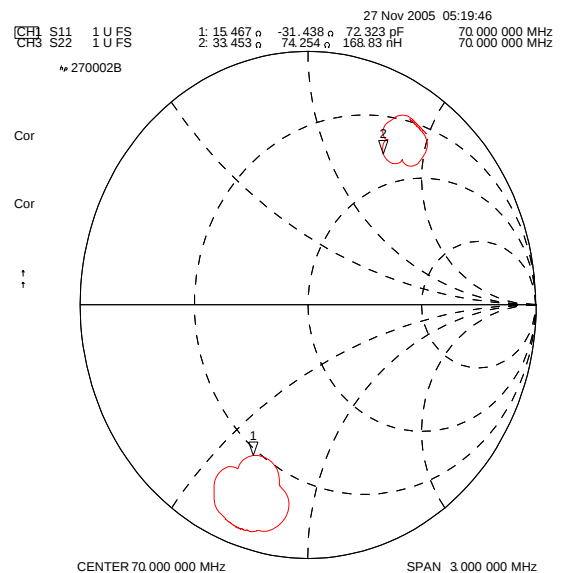
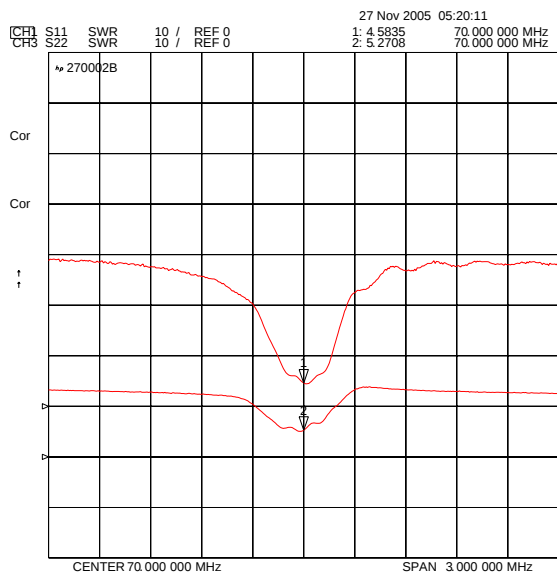
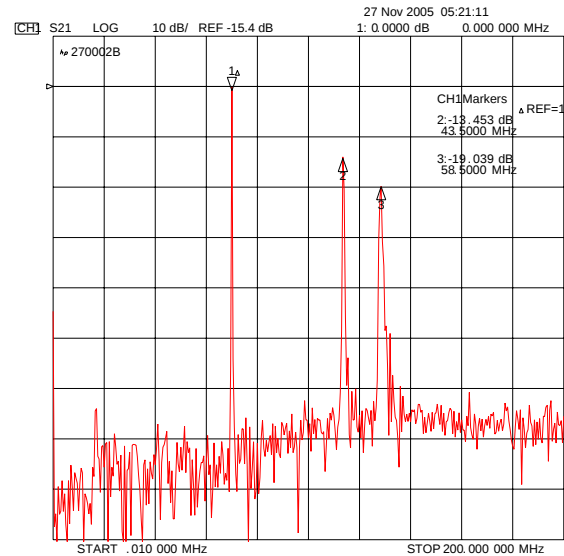
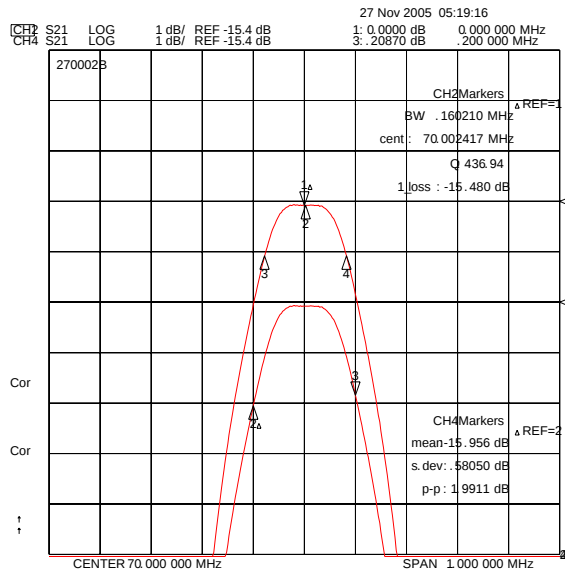


6. Typical Performance (at +25℃)



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