

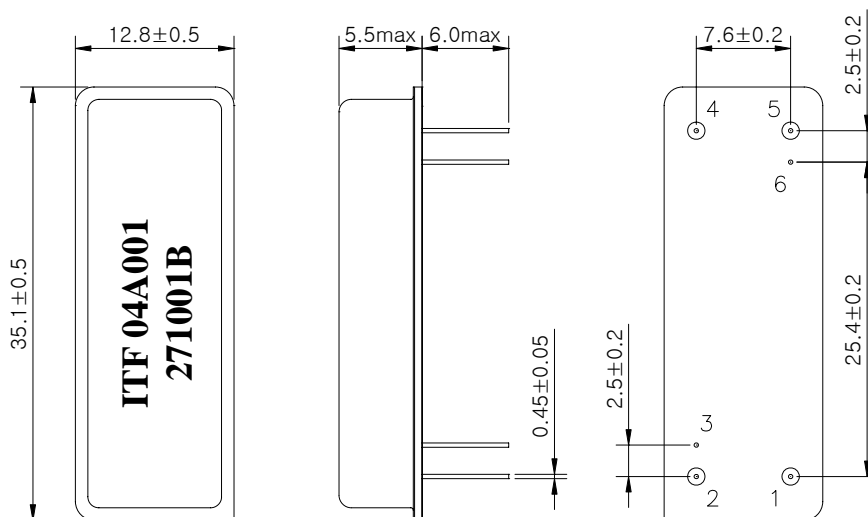
SAW Bandpass Filter 271001B



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

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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	-	24.5	26.0
3dB Bandwidth	MHz	10.9	10.95	11.1
40dB Bandwidth	MHz	-	11.7	12.0
Amplitude Ripple (Fo +/- 5.2 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 5.2 MHz)	nsec	-	50	150
Relative Attenuation				
30.000 to 63.925 MHz	dB	48	50	-
63.925 to 64.125 MHz	dB	38	42	-
75.875 to 76.075 MHz	dB	38	42	-
76.075 to 100.00 MHz	dB	48	50	-
Absolute Delay	usec	-	3.42	-
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

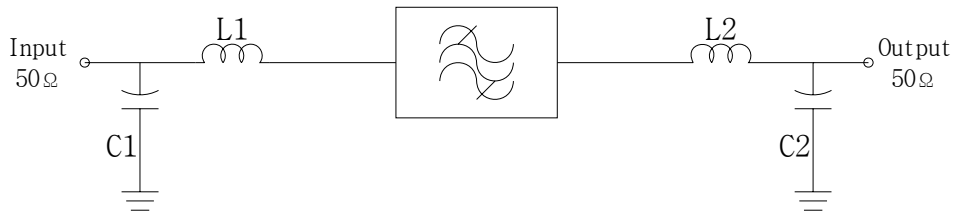
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4. Matching Schematic

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



L1 = 56 nH, L2 = 68 nH

C1 = C2 = 47 pF

5. Marking Configuration


ITF¹⁾ 04A001²⁾

271001B³⁾

1) Manufacturer name

2) Lot Number

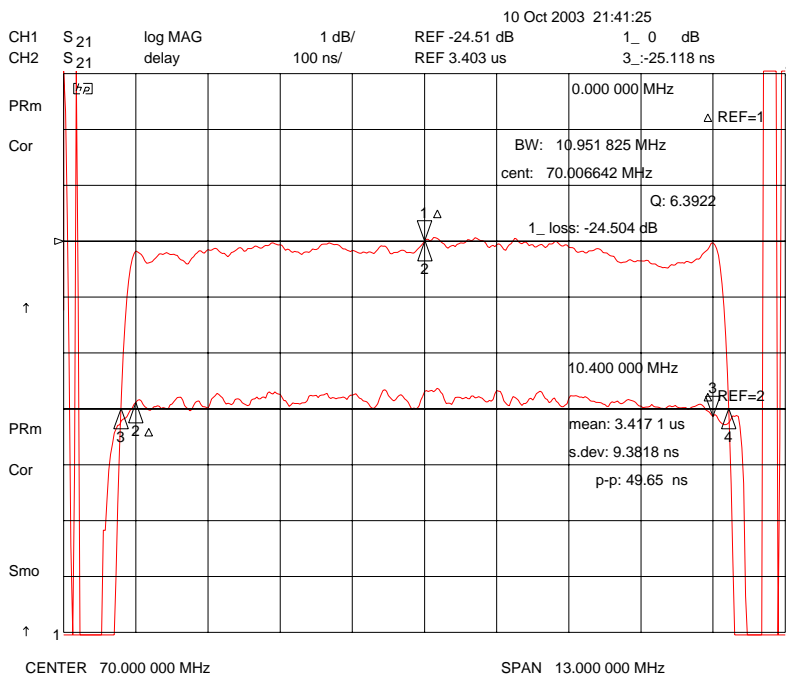
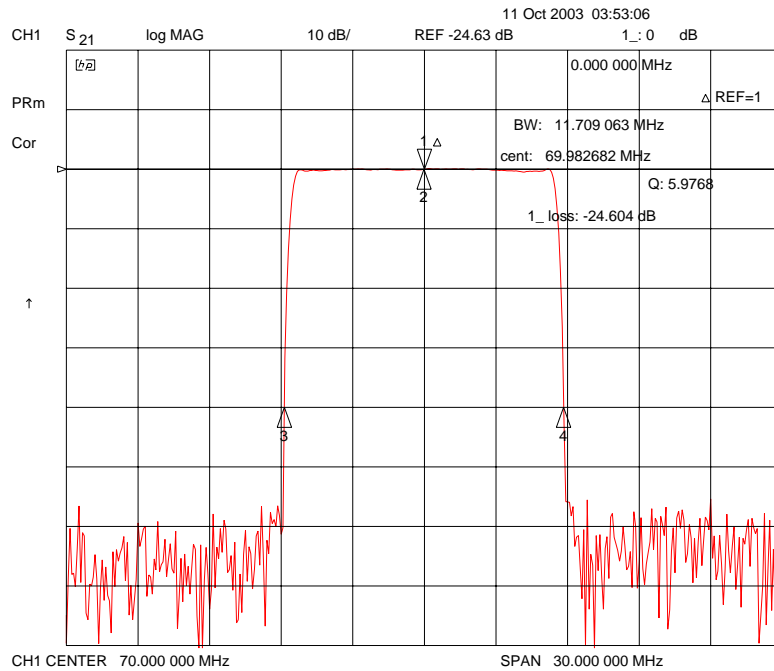
3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271001B	
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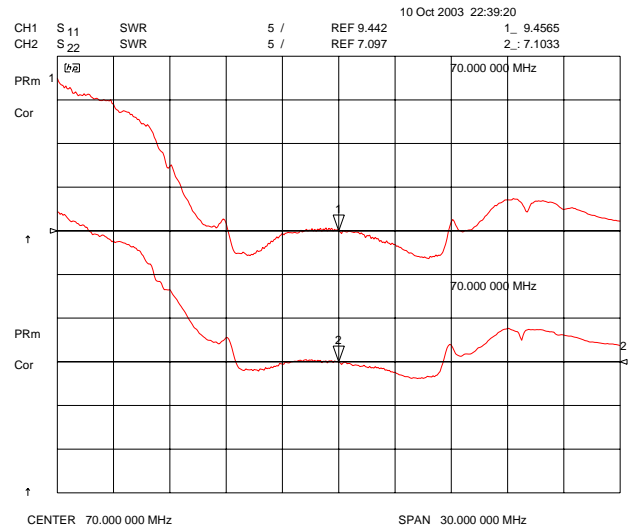
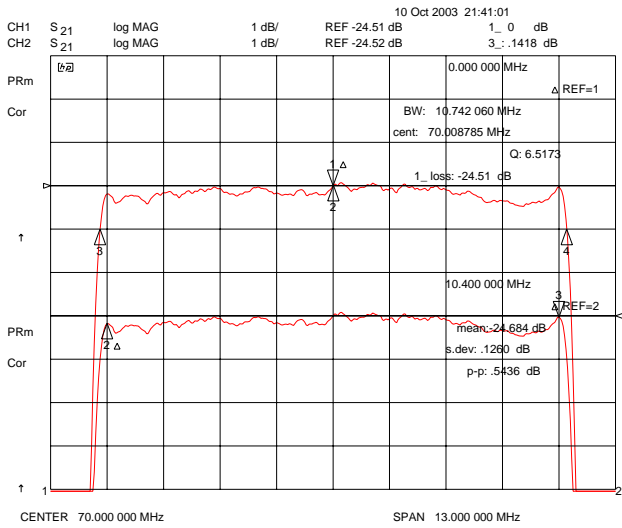
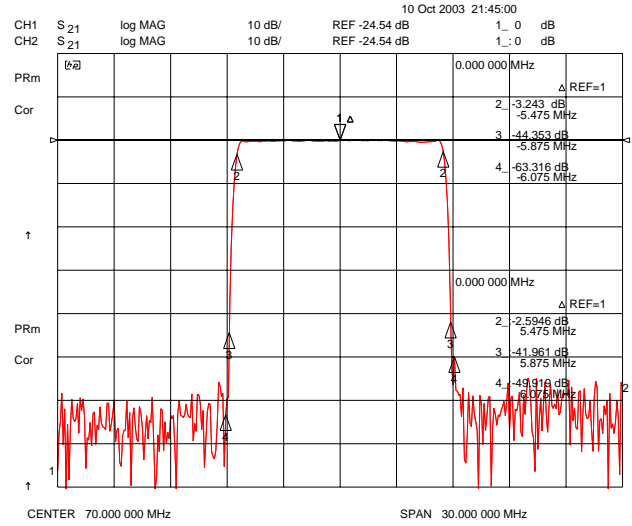
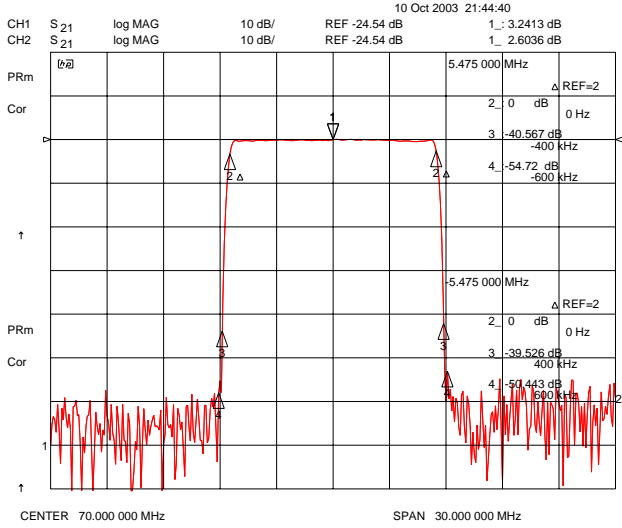
6. Typical Performance (at +25°C)



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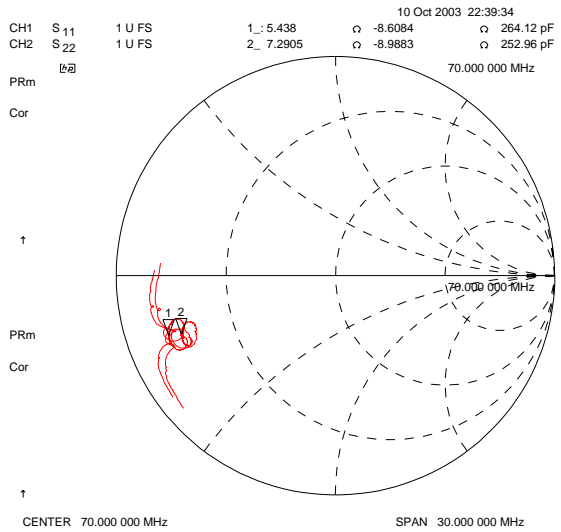
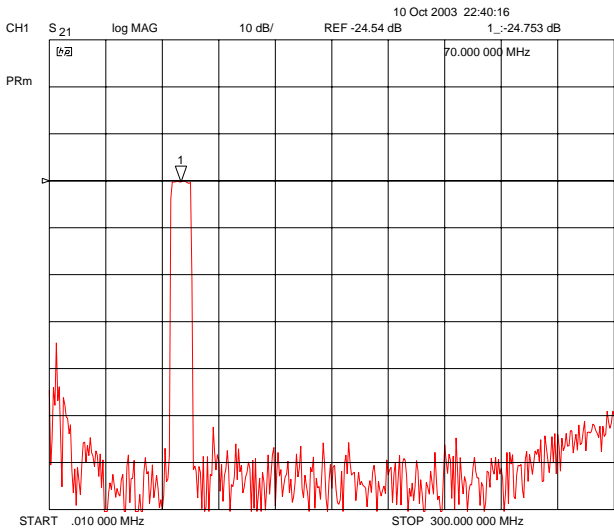
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