

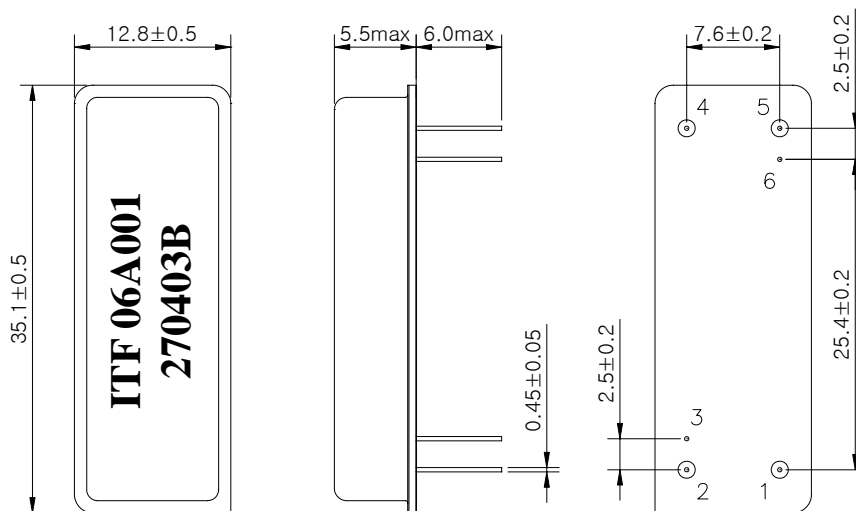
SAW Bandpass Filter 270403B



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

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270403B	
		Rev. Date	2006-01-05	
		Rev.	NM5025-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	69.94	70.0	70.06
Insertion Loss	dB	-	22.5	25.0
1dB Bandwidth	MHz	-	4.28	-
3dB Bandwidth	MHz	4.4	4.58	-
40dB Bandwidth	MHz	-	5.75	5.85
Amplitude Ripple (Fo +/- 1.9 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 1.9 MHz)	nsec	-	100	150
Absolute Delay	usec	-	3.76	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-23	-

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

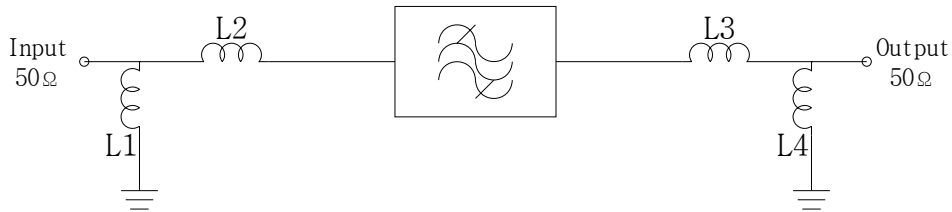
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270403B	
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4. Matching Schematic

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



L1 = 82nH, L2 = 56nH,
L3 = 56nH, L4 = 82nH

5. Marking Configuration

ITF¹⁾05A001²⁾
270403B³⁾

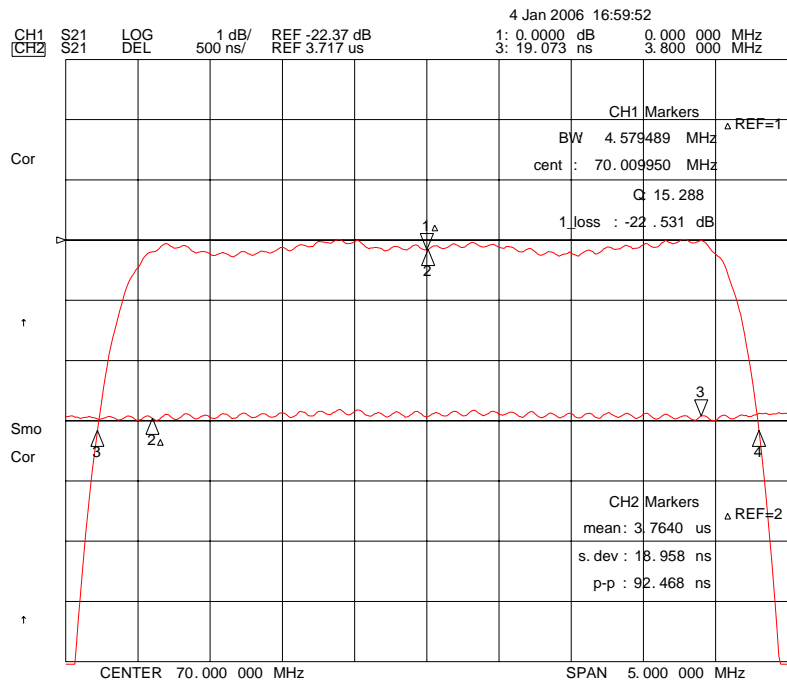
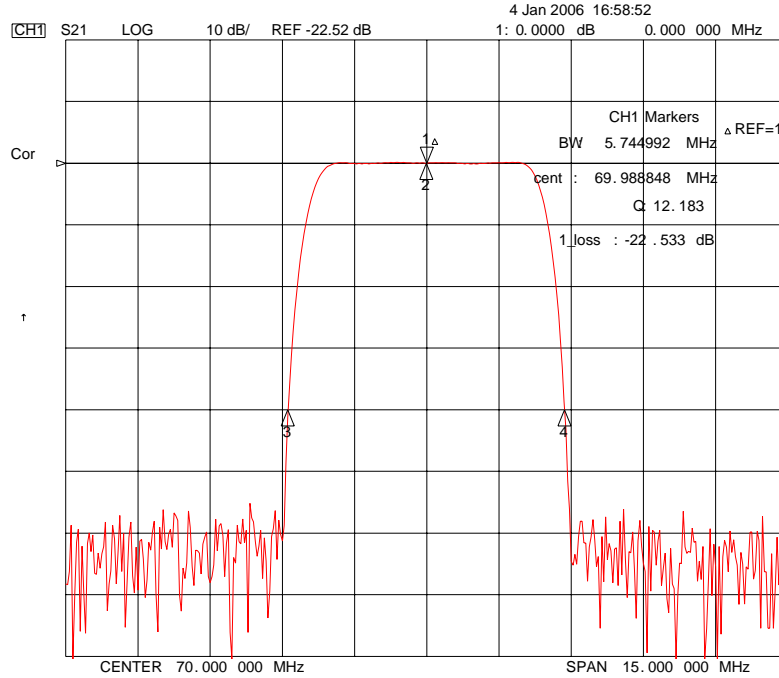
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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6. Typical Performance (at +25°C)



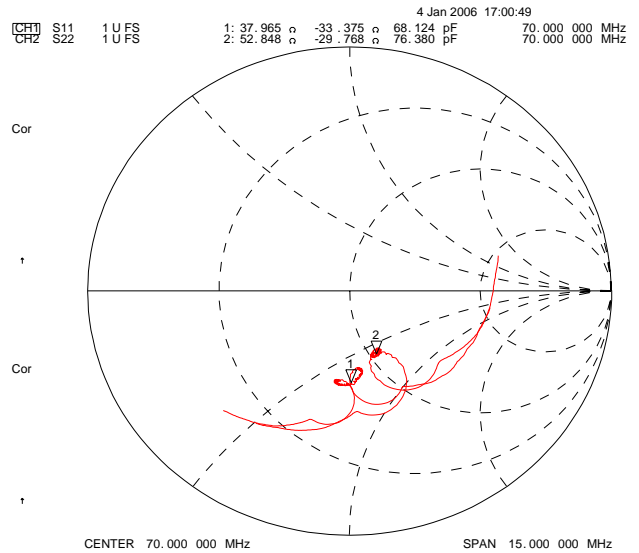
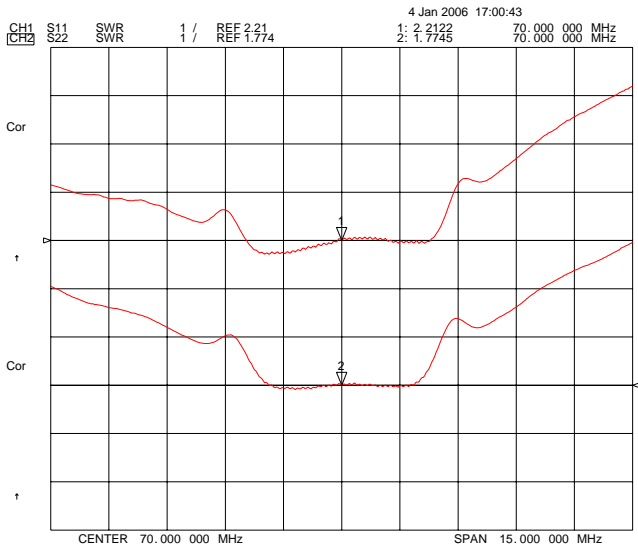
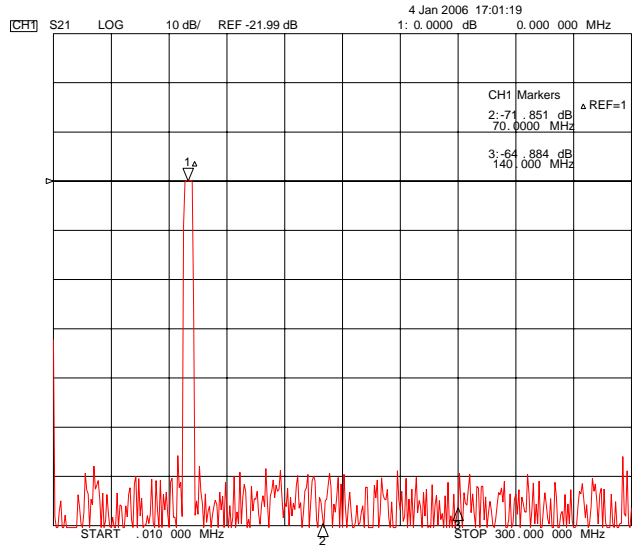
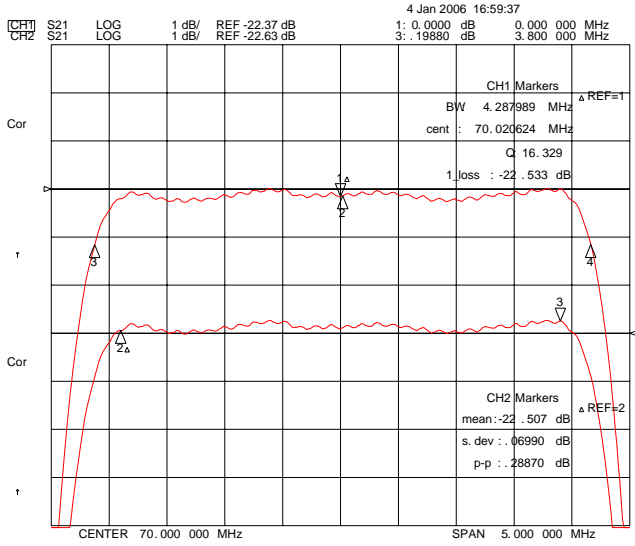
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