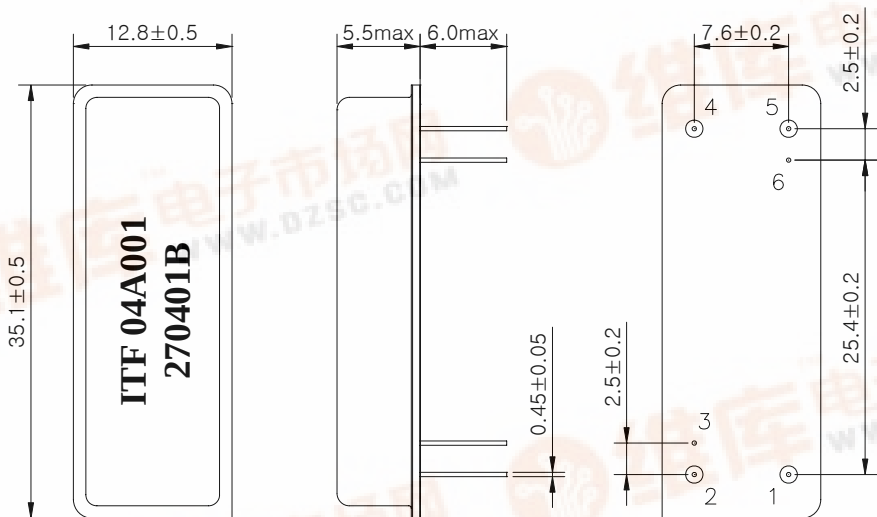


SAW Bandpass Filter 270401B

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
3, 6	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.	270401B	
		Rev. Date	2004-06-16	
		Rev.	NM4014-CS01	1/5

SAW Bandpass Filter 270401B

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	69.95	70.0	70.05
Insertion Loss	dB	-	25.0	26.0
1dB Bandwidth	MHz	-	3.92	-
3dB Bandwidth	MHz	4.0	4.12	-
40dB Bandwidth	MHz	-	4.9	5.2
Amplitude Ripple (Fo +/- 1.845 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 1.845 MHz)	nsec	-	110	310
Absolute Delay	usec	-	4.2	-
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

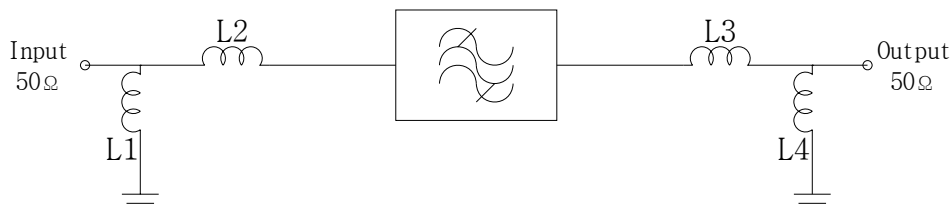
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270401B	
		Rev. Date	2004-06-16	
		Rev.	NM4014-CS01	2/5

SAW Bandpass Filter 270401B



4. Matching Schematic

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



$$L2 = L3 = 22 \text{ nH},$$

$$L1 = L4 = 68 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾

270401B³⁾

1) Manufacturer name

2) Lot Number

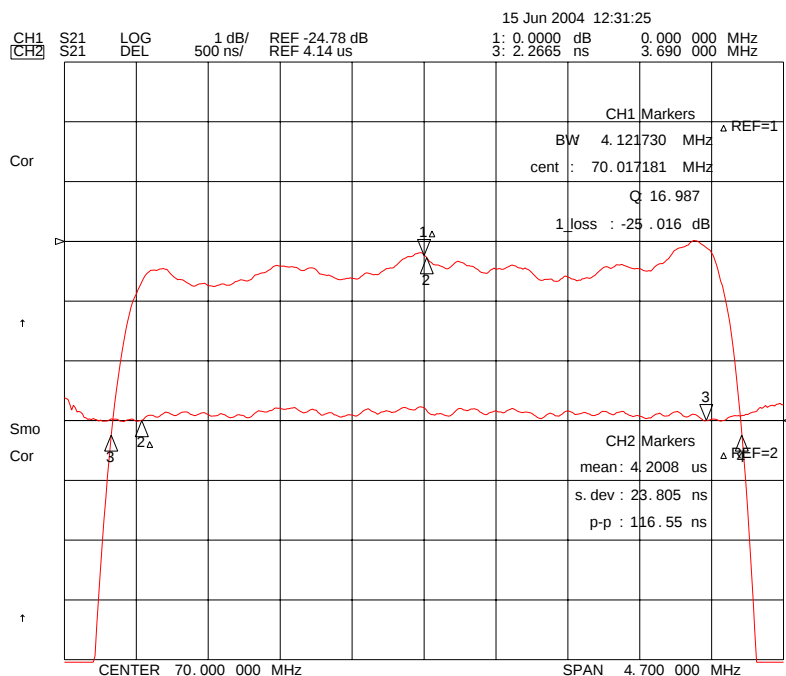
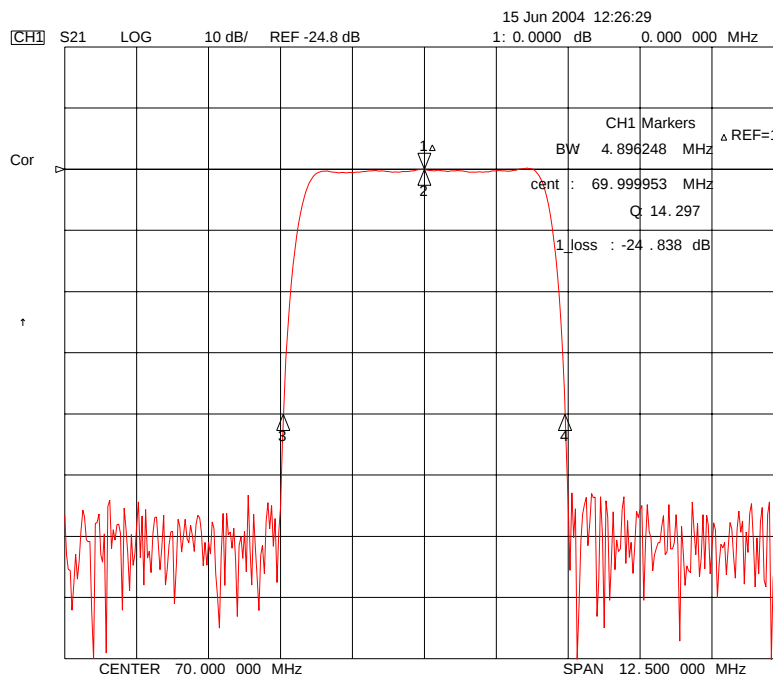
3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270401B	
		Rev. Date	2004-06-16	
		Rev.	NM4014-CS01	3/5

SAW Bandpass Filter 270401B

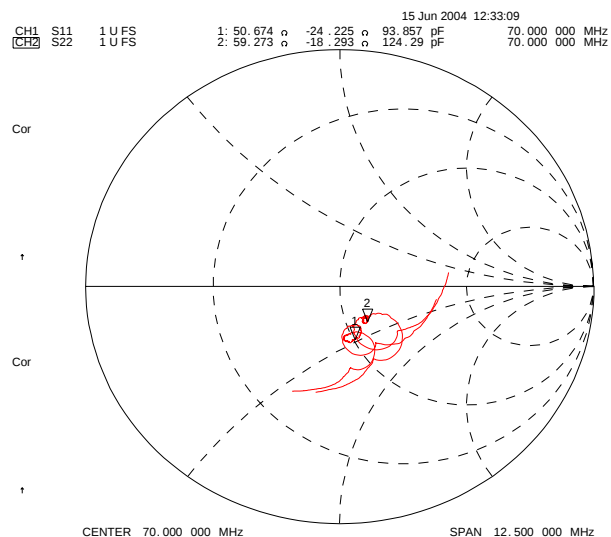
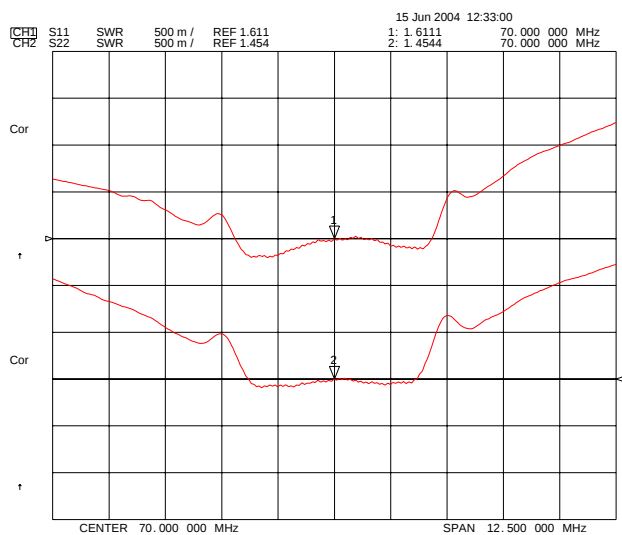
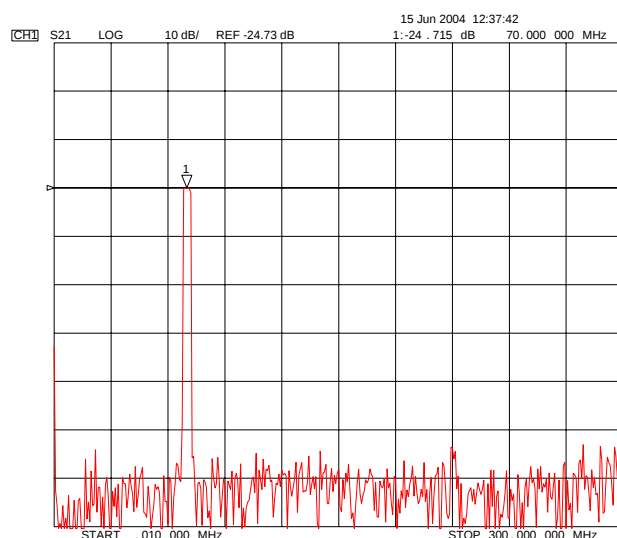
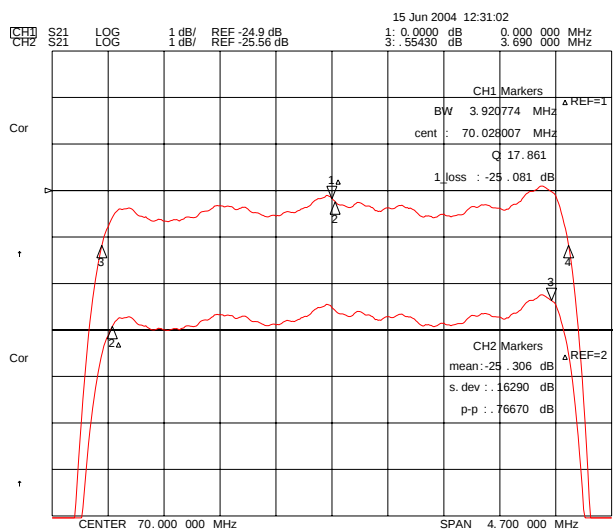


6. Typical Performance (at +25℃)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809		Part No.		270401B	
			Rev. Date		2004-06-16	
			Rev.		NM4014-CS01	4/5

SAW Bandpass Filter 270401B



ITF Co., Ltd.
102-901, Bucheon Technopark 364,
Samjeong-Dong, Ojeong-Gu, Bucheon-City,
Gyeonggi-Do, Korea 421-809

Part No.

270401B

Rev. Date

2004-06-16

Rev.

NM4014-CS01

5/5