

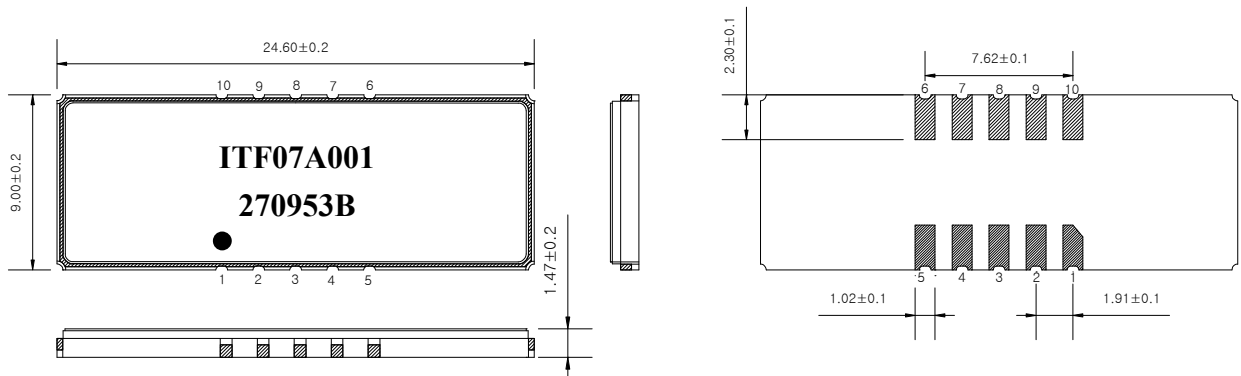
SAW Bandpass Filter 270953B



1. Features

- IF Bandpass Filter
- High-Attenuation
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S2409

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

Pad Configuration	
10	Input
5	Output
1, 6	Ground
Other	Case ground

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270953B	
		Rev. Date	2007-11-14	
		Rev.	NM7042-CS01	1/5

SAW Bandpass Filter 270953B



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	-	20.3	22.0
1dB Bandwidth	MHz	-	9.61	-
3dB Bandwidth	MHz	9.8	9.9	-
50dB Bandwidth	MHz	-	11.26	11.4
Amplitude Ripple (Fo ± 4.6 MHz)	dB	-	0.49	0.75
Group Delay Variation (Fo ± 4.6 MHz)	nsec	-	50	80
Absolute Delay	usec	-	2.36	-
Ultimate Rejection	dB	50	52	-
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

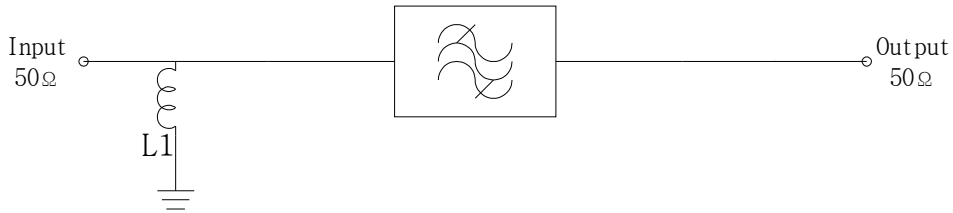
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270953B	
		Rev. Date	2007-11-14	
		Rev.	NM7042-CS01	2/5

SAW Bandpass Filter 270953B



4. Matching Schematic

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



L1 = 120nH

5. Marking Configuration

ITF¹⁾ 07A001²⁾

270953B³⁾

● ⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

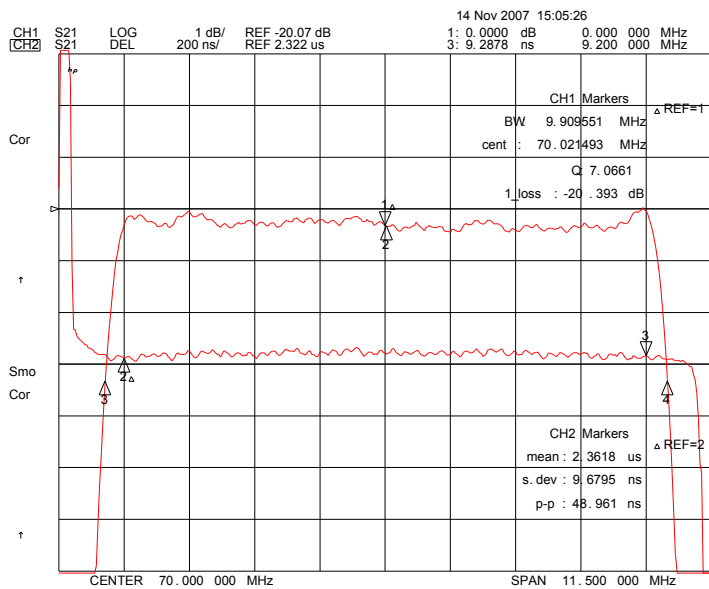
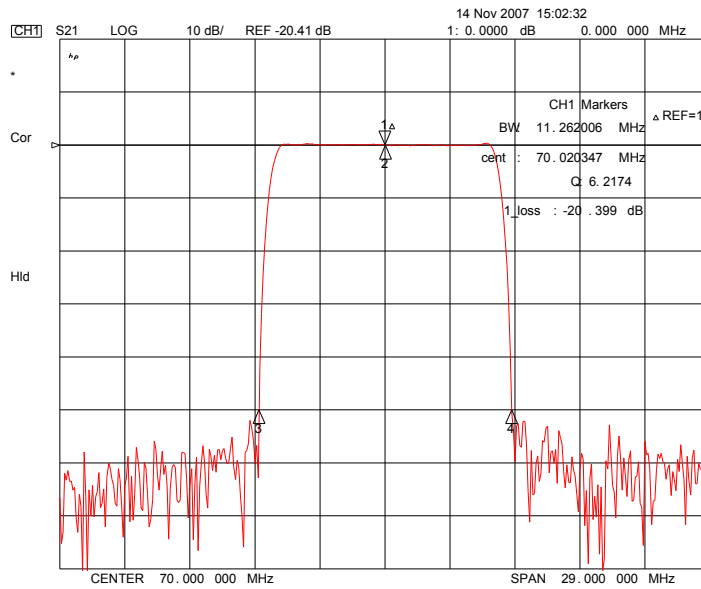
4) Pad Number 1 Index

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270953B	
		Rev. Date	2007-11-14	
		Rev.	NM7042-CS01	3/5

SAW Bandpass Filter 270953B



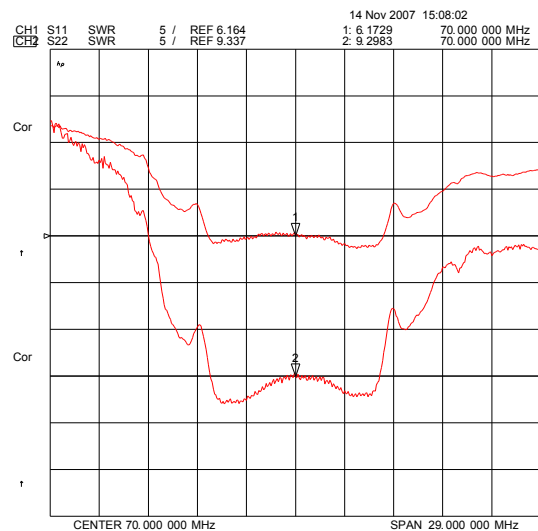
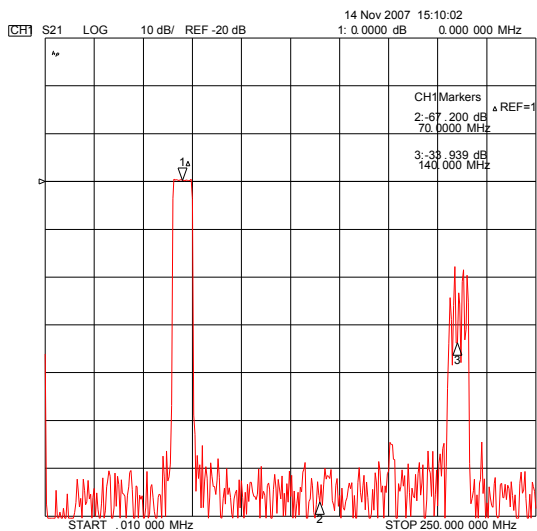
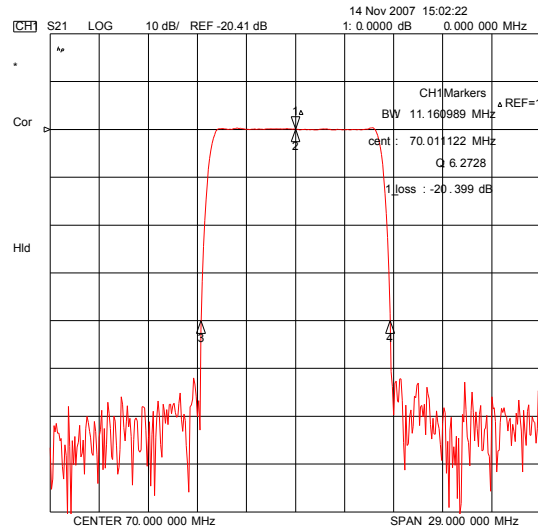
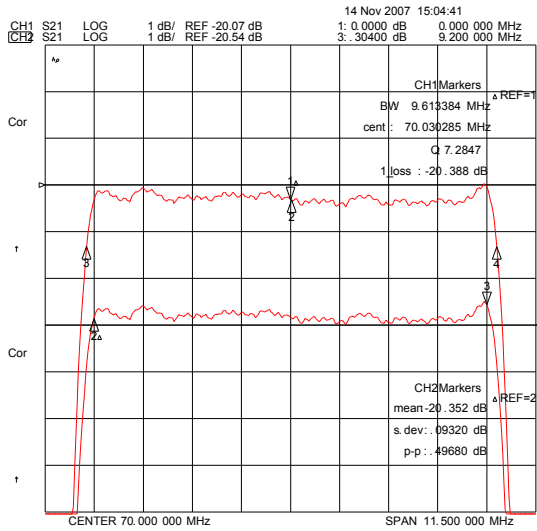
6. Typical Performance (at +25°C)



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

Part No.	270953B	
Rev. Date	2007-11-14	
Rev.	NM7042-CS01	4/5

SAW Bandpass Filter 270953B



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

Part No.	270953B	
Rev. Date	2007-11-14	
Rev.	NM7042-CS01	5/5