

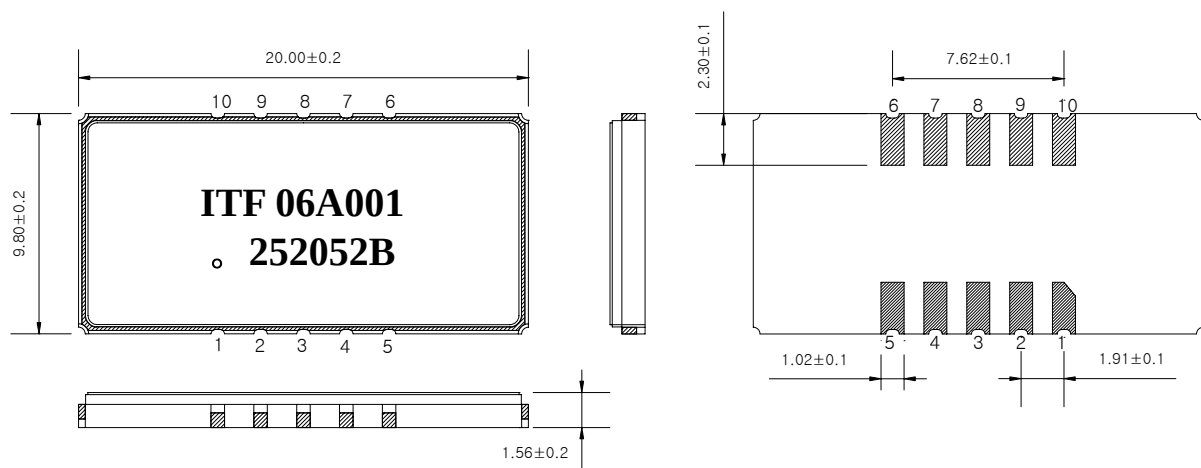
SAW Bandpass Filter 252052B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- SMD Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : S2098

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

Pin Configuration

10	Input
5	Output
1, 4	Ground
Others	Case ground



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

Part No.

252052B

Rev. Date

2007-07-17

Rev.

NM6005-CS02

1/12

SAW Bandpass Filter 252052B



3. Specifications

Fo = 120.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	120.08	-
Insertion Loss	dB	-	24.8	25.5
1dB Bandwidth	MHz	-	20.28	-
3dB Bandwidth	MHz	20.4	20.6	-
40dB Bandwidth	MHz	-	21.86	22.0
Amplitude Ripple (Fo +/- 9.75 MHz)	dB	-	0.48	1.0
Group Delay Variation (Fo +/- 9.75 MHz)	nsec	-	40	100
Absolute Delay	usec	-	2.25	-
Ultimate Rejection	dB	50	55	-
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

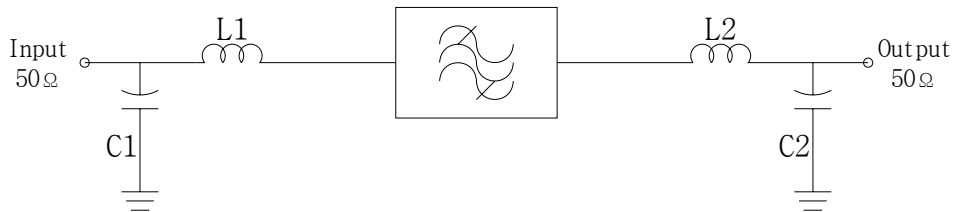
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	252052B	
		Rev. Date	2007-07-17	
		Rev.	NM6005-CS02	2/12

SAW Bandpass Filter 252052B



4. Matching Schematic

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



$L1 = 47\text{nH}$, $L2 = 47\text{nH}$

$C1 = 30\text{pF}$, $C2 = 30\text{pF}$

5. Marking Configuration

ITF¹⁾ 06A001²⁾

252052B³⁾

1) Manufacturer name

2) Lot Number

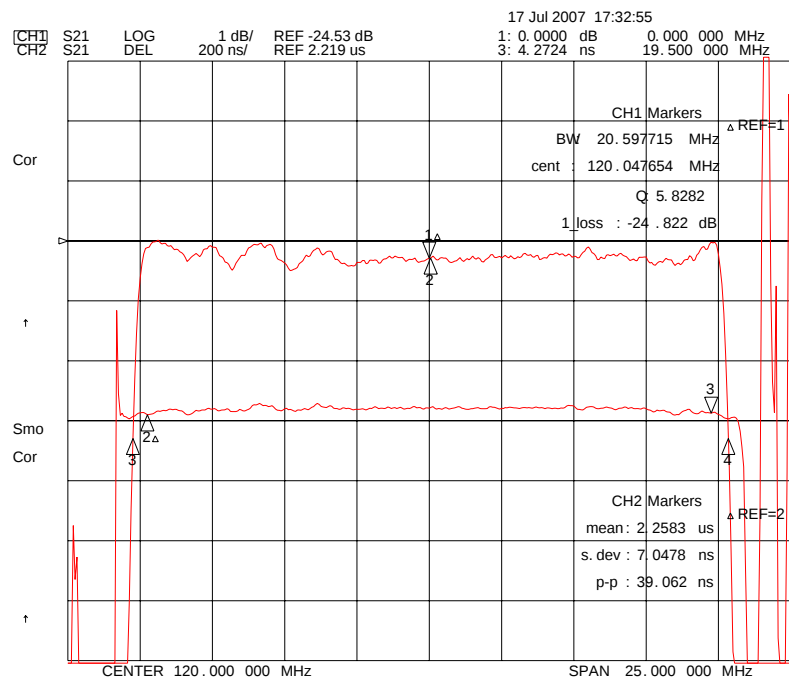
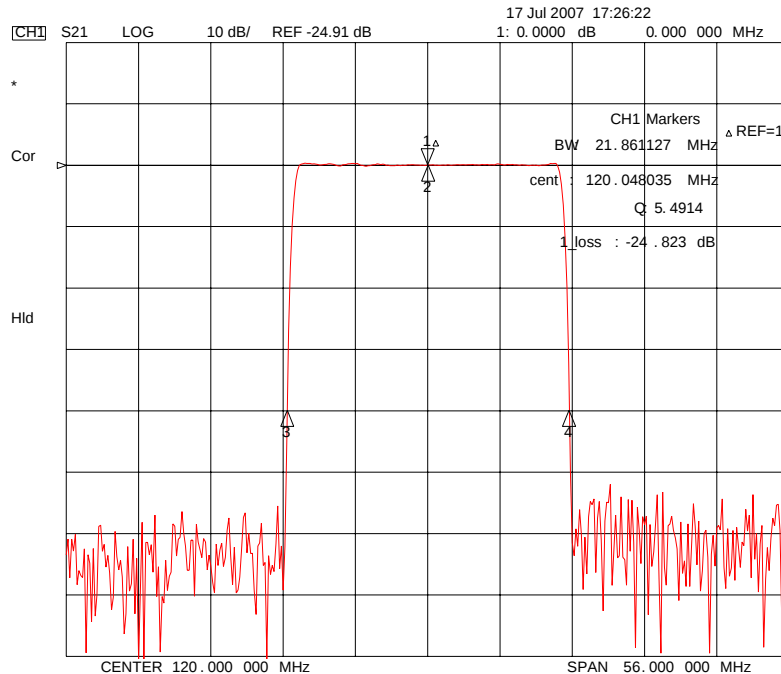
3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	252052B	
		Rev. Date	2007-07-17	
		Rev.	NM6005-CS02	3/12

SAW Bandpass Filter 252052B

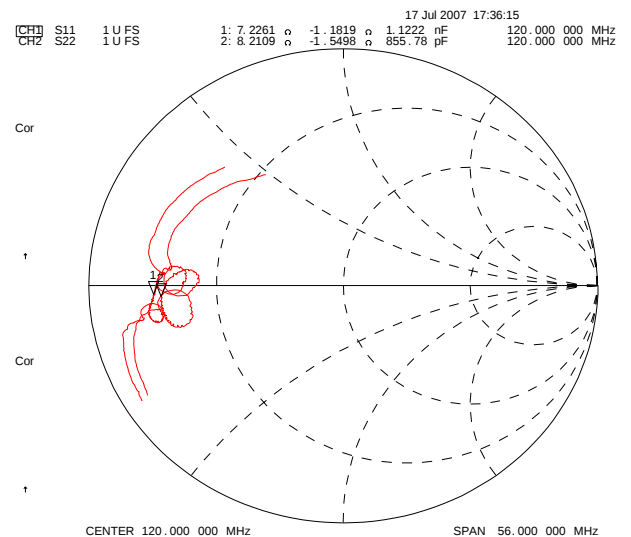
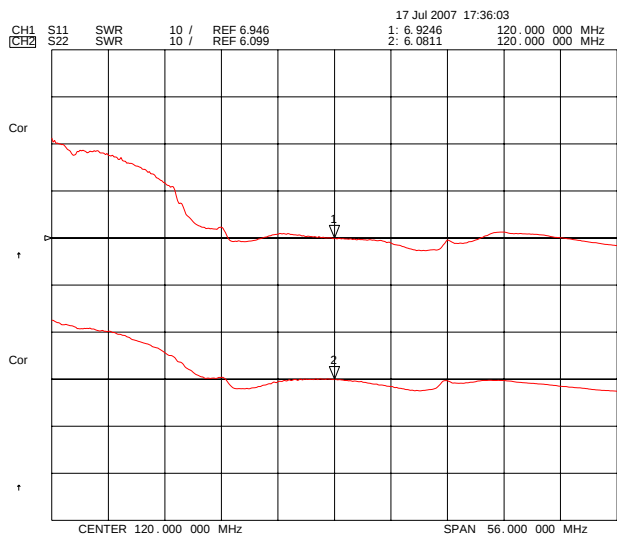
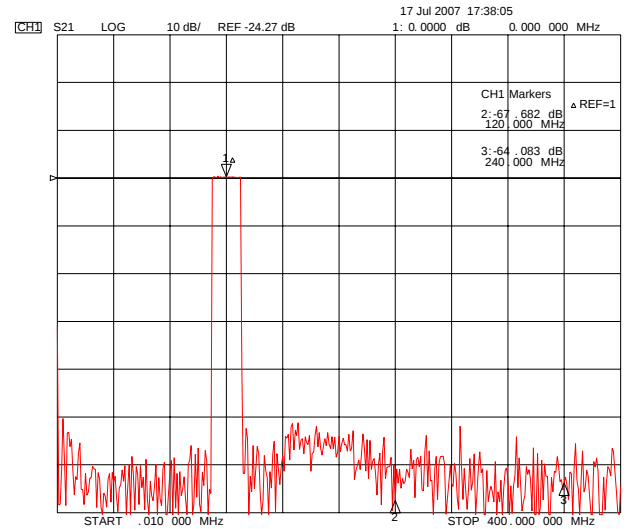
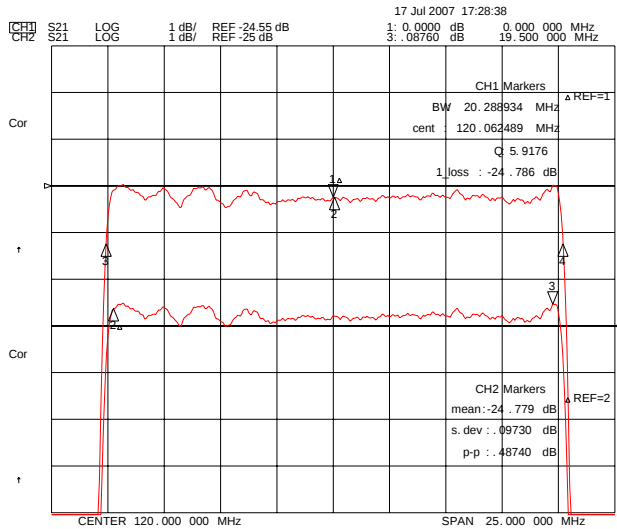


6. Typical Performance (at +25℃)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809		Part No. 252052B	
			Rev. Date 2007-07-17	
			Rev. NM6005-CS02	4/12

SAW Bandpass Filter 252052B



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

Part No.	252052B	
Rev. Date	2007-07-17	
Rev.	NM6005-CS02	5/12