

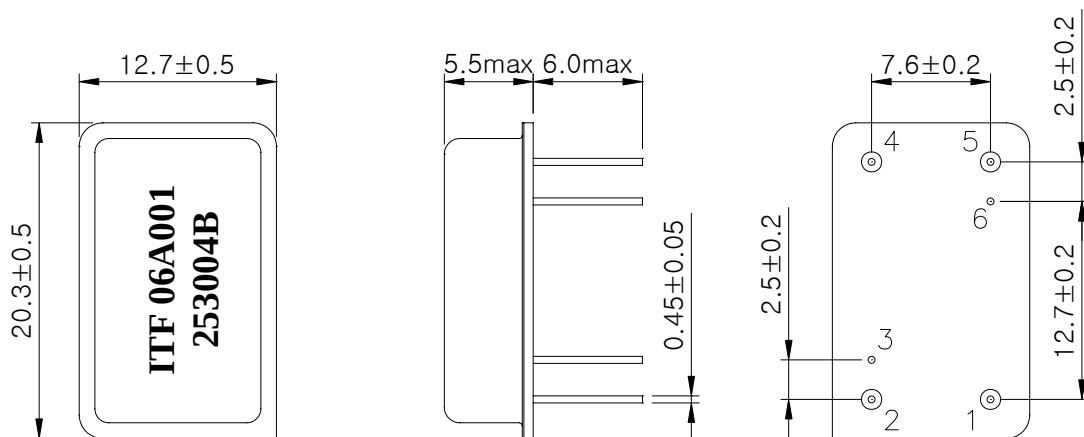
SAW Bandpass Filter 253004B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -30℃ ~ 80℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D2012

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.	253004B	
		Rev. Date	2006-09-11	
		Rev.	NM6028-CS01	1/5

SAW Bandpass Filter 253004B



3. Specifications

Fo = 125.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -30℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	125.0	-
Insertion Loss	dB	-	21.0	23.0
1dB Bandwidth	MHz	-	29.6	-
3dB Bandwidth	MHz	30.3	30.55	-
50dB Bandwidth	MHz	-	34.73	35.0
Amplitude Ripple (Fo +/- 13.5 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 13.5 MHz)	nsec	-	30	50
Absolute Delay	usec	-	0.95	1
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/℃	-	-80	-

Room temperature : + 25℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	125.0	-
Insertion Loss	dB	-	21.0	23.0
Amplitude Ripple (Fo +/- 14.0 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 14.0 MHz)	nsec	-	30	50

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

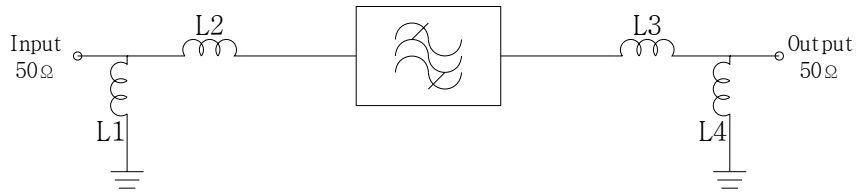
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	253004B	
		Rev. Date	2006-09-11	
		Rev.	NM6028-CS01	2/5

SAW Bandpass Filter 253004B



4. Matching Schematic

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



$$L1 = L4 = 180\text{nH},$$

$$L2 = L3 = 39\text{nH}$$

5. Marking Configuration

ITF¹⁾ 06A001²⁾

253004B³⁾

1) Manufacturer name

2) Lot Number

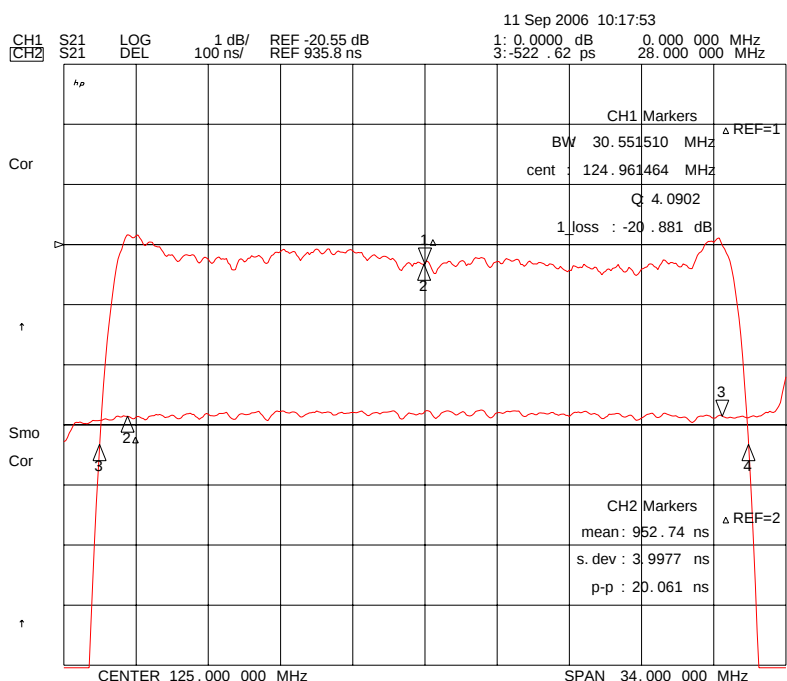
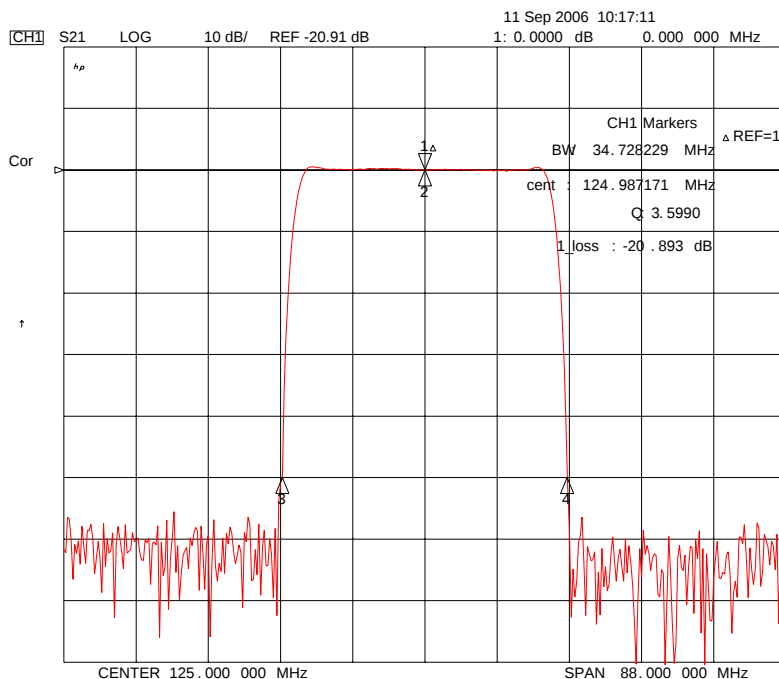
3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	253004B	
		Rev. Date	2006-09-11	
		Rev.	NM6028-CS01	3/5

SAW Bandpass Filter 253004B

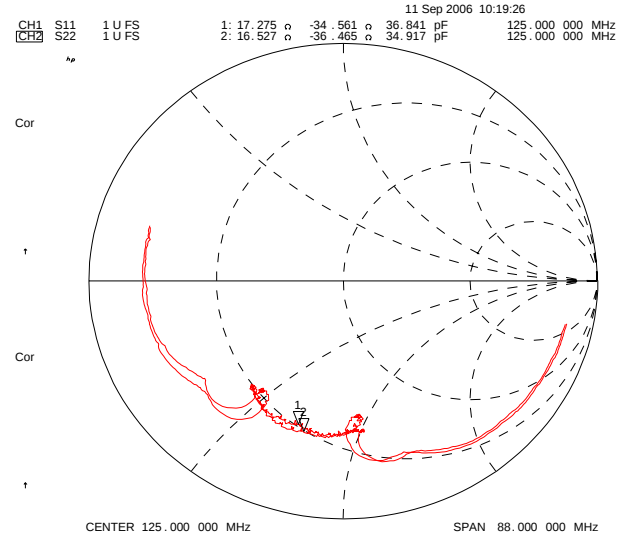
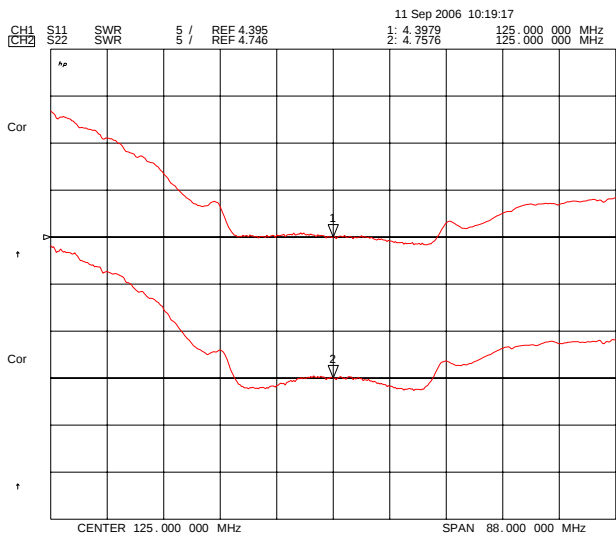
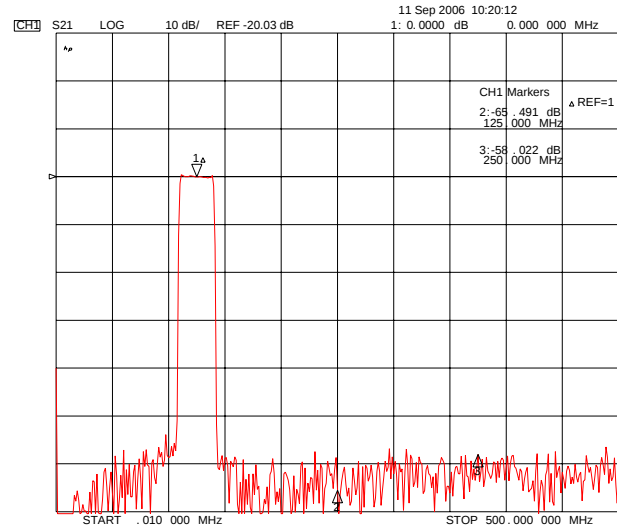
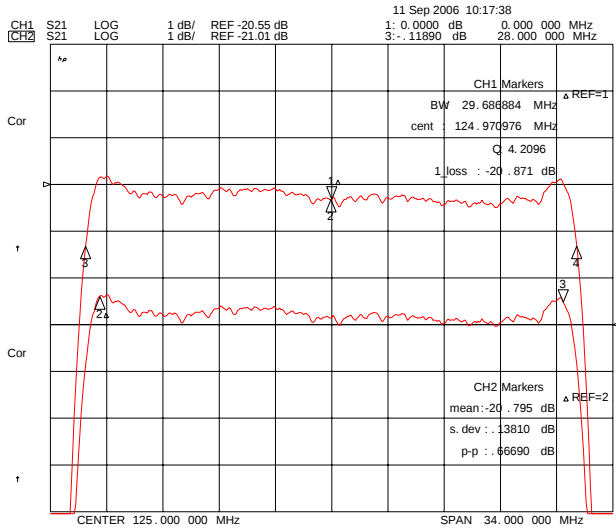


6. Typical Performance (at +25℃)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809		Part No.		253004B	
			Rev. Date		2006-09-11	
			Rev.		NM6028-CS01	4/5

SAW Bandpass Filter 253004B



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

Part No.	253004B	
Rev. Date	2006-09-11	
Rev.	NM6028-CS01	5/5