

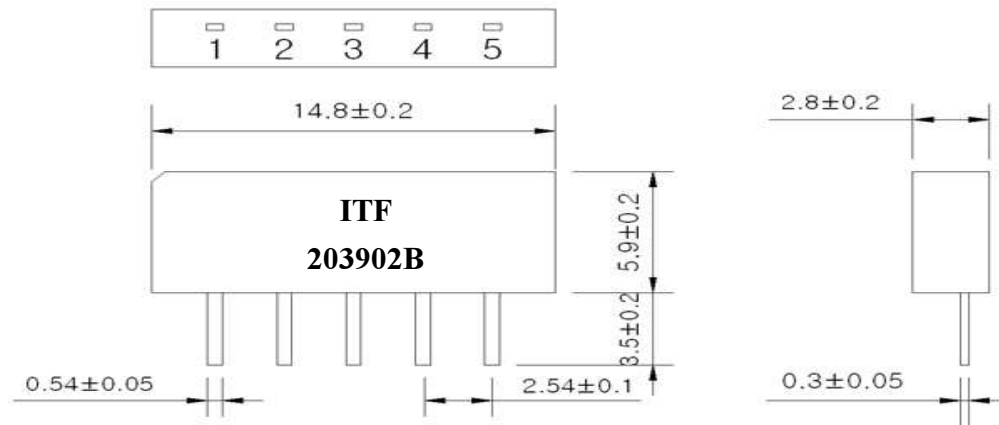
SAW Bandpass Filter 203902B



1. Features

- IF Bandpass Filter for TV
- Plastic Package

2. Package Dimension



Package : SIP5D

Dimensions shown are nominal in millimeters
Tinned CuFe alloy

Pin Configuration	
1	Input
2	Input ground
3	Case ground
4	Output
5	Output

Parameter	Unit	Minimum	Typical	Maximum
Storage Temperature Range	°C	-40	25	85

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203902B	
		Rev. Date	2005-01-03	
		Rev.	NT4002-CS01	1/5

SAW Bandpass Filter 203902B



3. Specifications

F_o = 36.0 MHz

Terminating source impedance : 50Ω

Terminating load impedance : 2KΩ // 3pF

		Minimum	Typical	Maximum
Center Frequency	MHz	-	36.0	-
Insertion Loss	dB	19.0	21.0	23.0
1.5dB Bandwidth	MHz		7.8	
3dB Bandwidth	MHz	-	8.1	-
15dB Bandwidth	MHz		8.9	
30dB Bandwidth	MHz	-	9.4	-
SideLobe				
25.0 ~ 31.0 MHz	dB	32.0	40.0	-
41.0 ~ 45.0 MHz	dB	32.0	38.0	-
Relative Attenuation				-
31.65 MHz	dB	7.0	10.0	
40.35 MHz	dB	7.0	10.0	
31.30 MHz	dB	22.0	29.0	
47.81 MHz	dB	22.0	29.0	
Group Delay Variation (32.1 ~39.9 MHz)	Nsec	-	60	-
Absolute Delay	usec	-	1.2	-
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

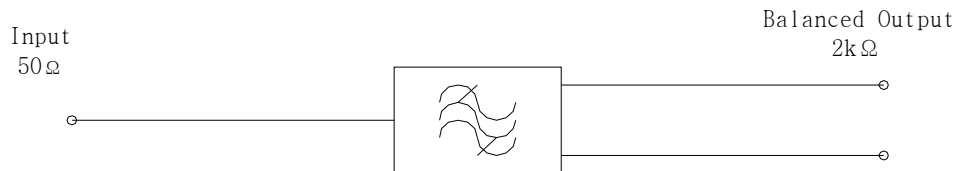
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203902B	
		Rev. Date	2005-01-03	
		Rev.	NT4002-CS01	2/5

SAW Bandpass Filter 203902B



4. Matching Schematic

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



5. Marking Configuration

ITF¹⁾
203902B²⁾

1) Manufacturer name

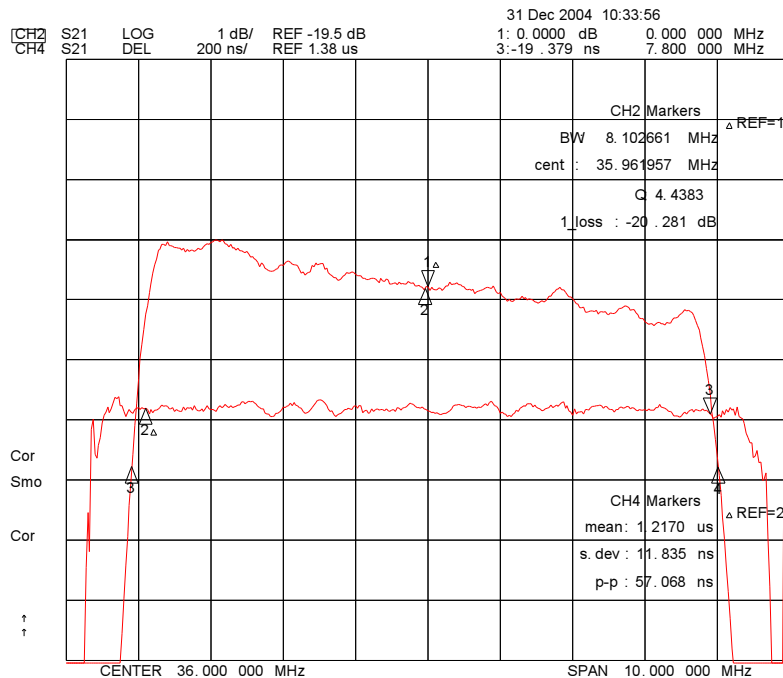
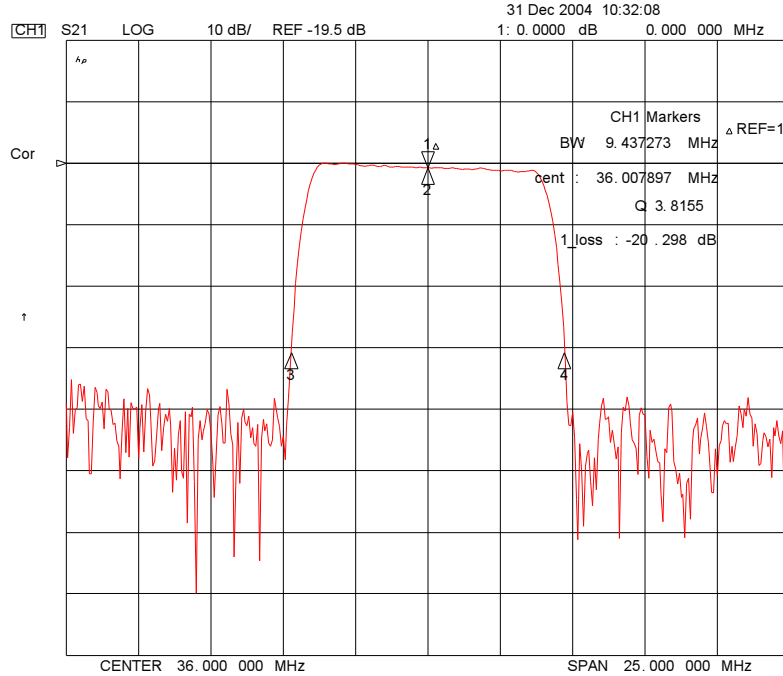
2) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203902B	
		Rev. Date	2005-01-03	
		Rev.	NT4002-CS01	3/5

SAW Bandpass Filter 203902B

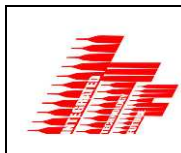
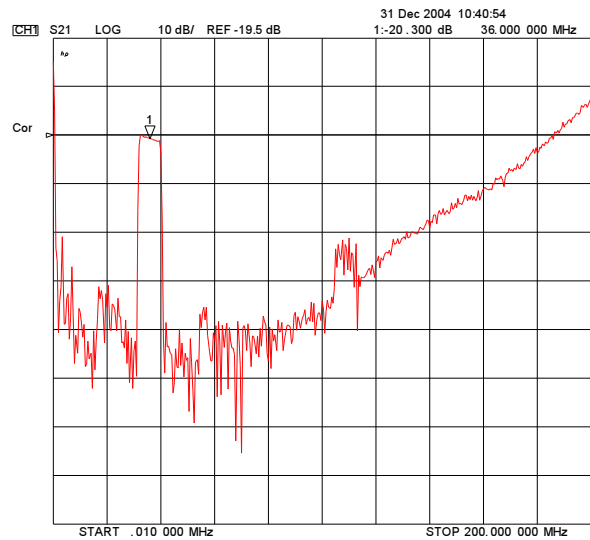
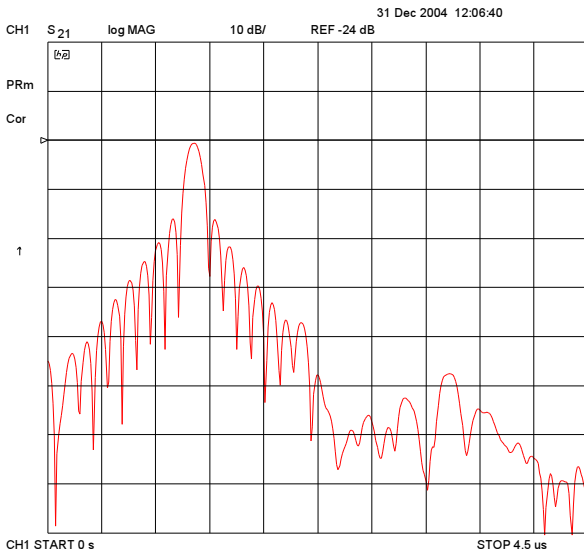
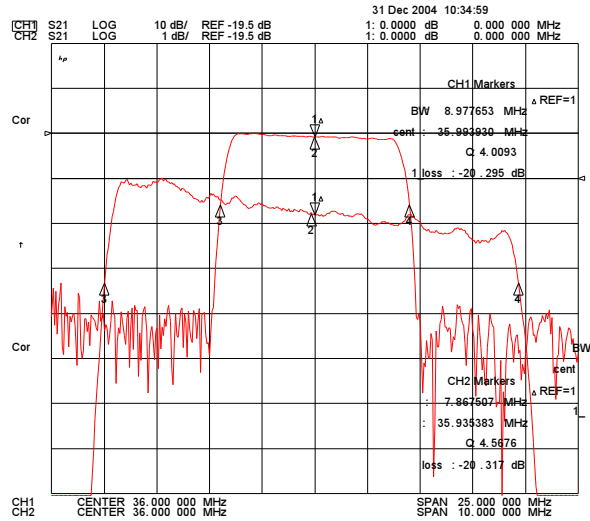
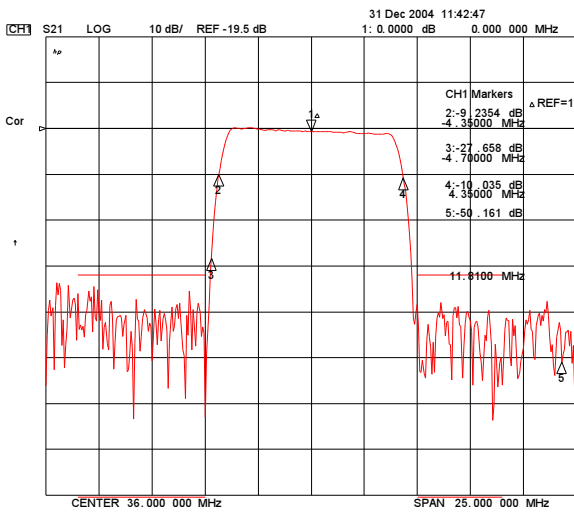


6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203902B	
		Rev. Date	2005-01-03	
		Rev.	NT4002-CS01	4/5

SAW Bandpass Filter 203902B



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

Part No.	203902B	
Rev. Date	2005-01-03	
Rev.	NT4002-CS01	5/5