

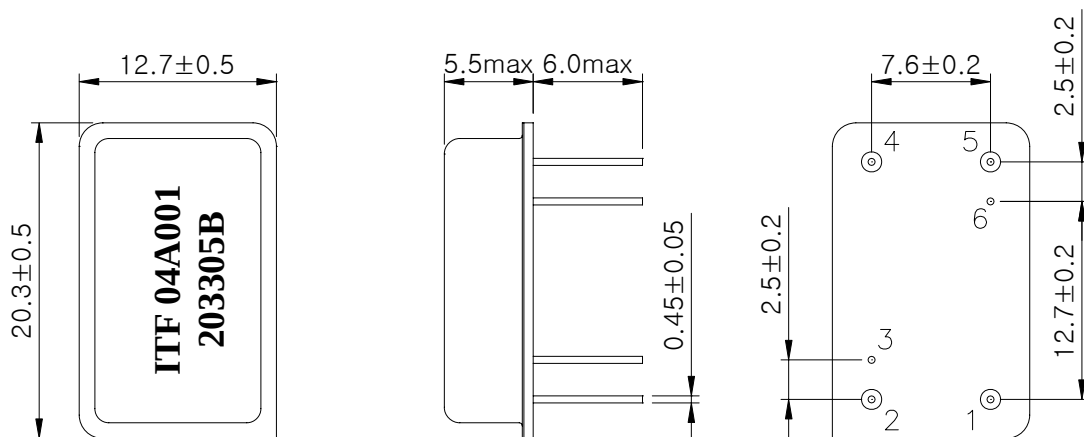
SAW Bandpass Filter 203305B



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 : 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.	203305B	
		Rev. Date	2004-04-19	
		Rev.	NI0009-CS03	1/5

SAW Bandpass Filter 203305B



3. Specifications

Fo = 76.945 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	76.895	76.945	76.995
Insertion Loss	dB	-	23.5	25.0
1dB Bandwidth	MHz	-	3.5	-
3dB Bandwidth	MHz	3.84	3.91	3.94
40dB Bandwidth	MHz	-	5.5	5.7
Amplitude Ripple (Fo +/- 1.5 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 1.5 MHz)	nsec	-	80	150
Absolute Delay	usec	-	3.0	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-94	-

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

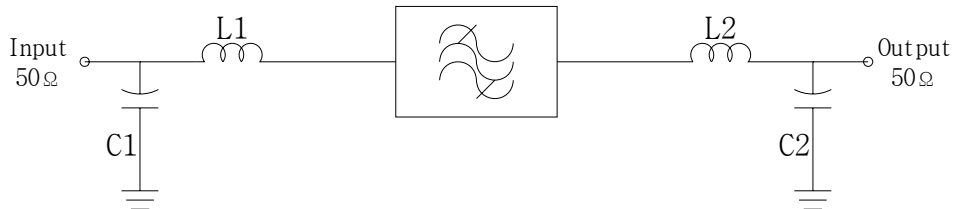
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203305B	
		Rev. Date	2004-04-19	
		Rev.	NI0009-CS03	2/5

SAW Bandpass Filter 203305B



4. Matching Schematic

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



$$L1 = L2 = 27 \text{ nH}$$

$$C1 = 90 \text{ pF},$$

$$C2 = 82 \text{ pF}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾

203305B³⁾

1) Manufacturer name

2) Lot Number

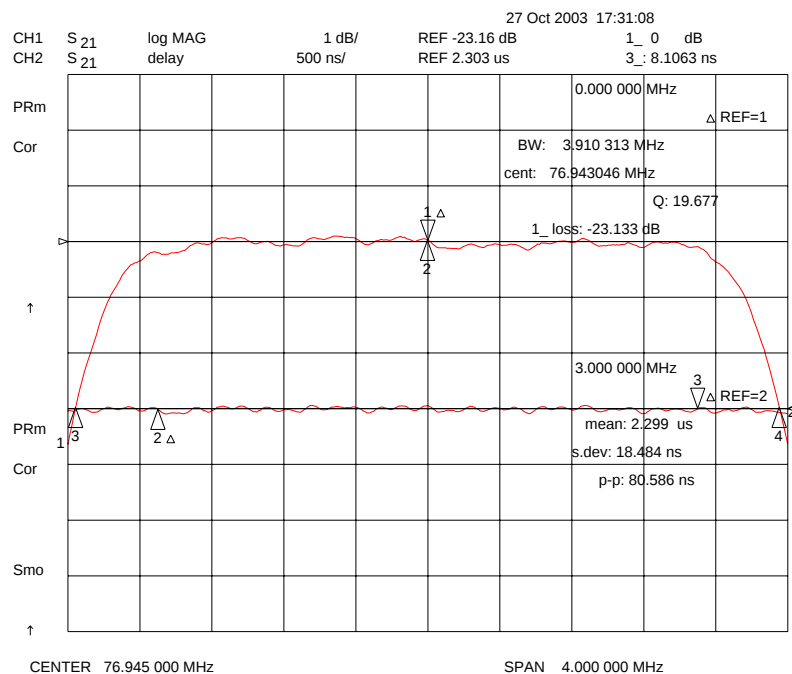
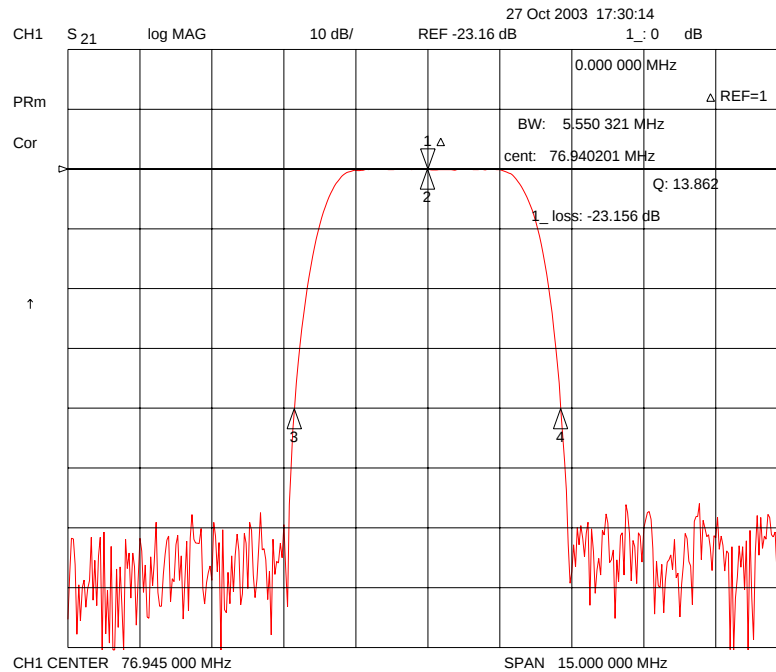
3) Part Number

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203305B	
		Rev. Date	2004-04-19	
		Rev.	NI0009-CS03	3/5

SAW Bandpass Filter 203305B

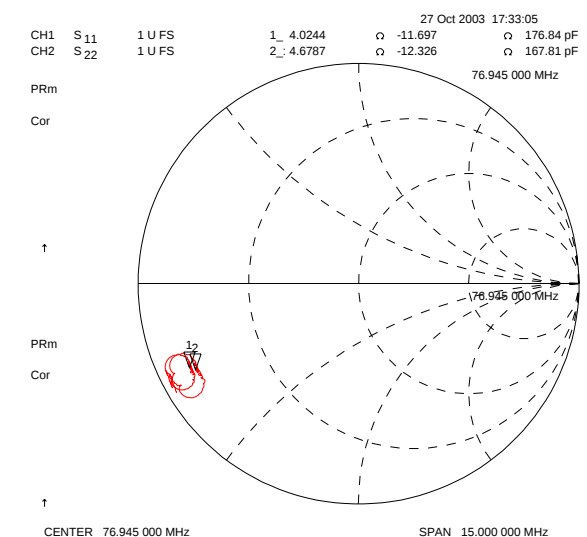
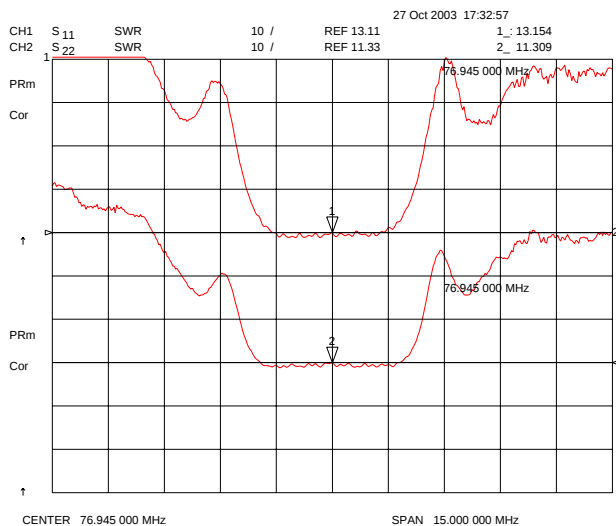
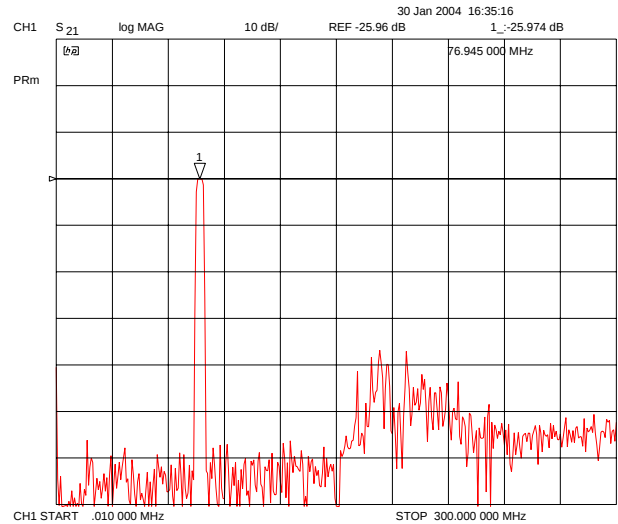
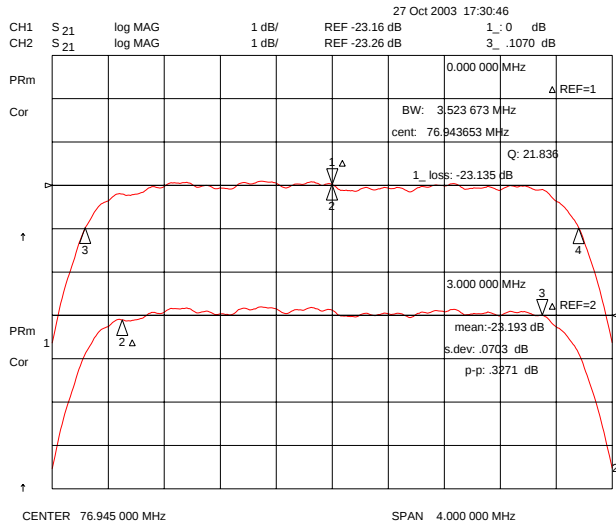


6. Typical Performance (at +25℃)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	203305B	
		Rev. Date	2004-04-19	
		Rev.	NI0009-CS03	4/5

SAW Bandpass Filter 203305B



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

Part No.

203305B

Rev. Date

2004-04-19

Rev.

NI0009-CS03

5/5