

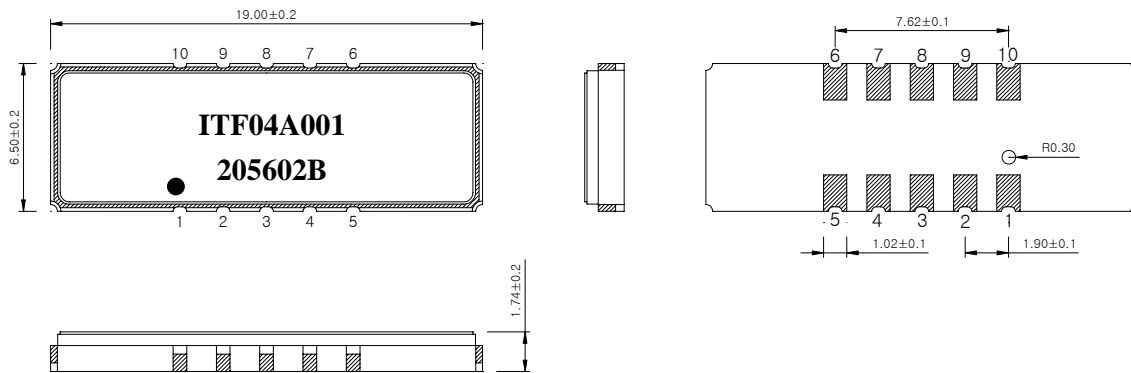
SAW Bandpass Filter 205602B



1. Features

- IF Bandpass Filter
- 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 : S1965

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.	205602B	
		Rev. Date	2004-04-02	
		Rev.	NW3007-CS02	1/5

SAW Bandpass Filter 205602B



3. Specifications

Fo = 100.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	99.95	100.0	100.05
Insertion Loss	dB	-	14.5	16.0
1dB Bandwidth	MHz	-	0.27	-
3dB Bandwidth	MHz	0.3	0.44	-
40dB Bandwidth	MHz	-	1.44	1.7
Amplitude Ripple (Fo +/- 0.05 MHz)	dB	-	0.3	0.5
Group Delay Variation (Fo +/- 0.05 MHz)	nsec	-	150	300
Absolute Delay	usec	-	2.69	-
Ultimate Rejection	dB	45	50	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

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

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		Rev. Date	2004-04-02	
		Rev.	NW3007-CS02	2/5

SAW Bandpass Filter 205602B



4. Matching Schematic

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



$$L1 = L2 = 82 \text{ nH}$$


5. Marking Configuration

ITF¹⁾ 04A001²⁾

205602B³⁾

●⁴⁾

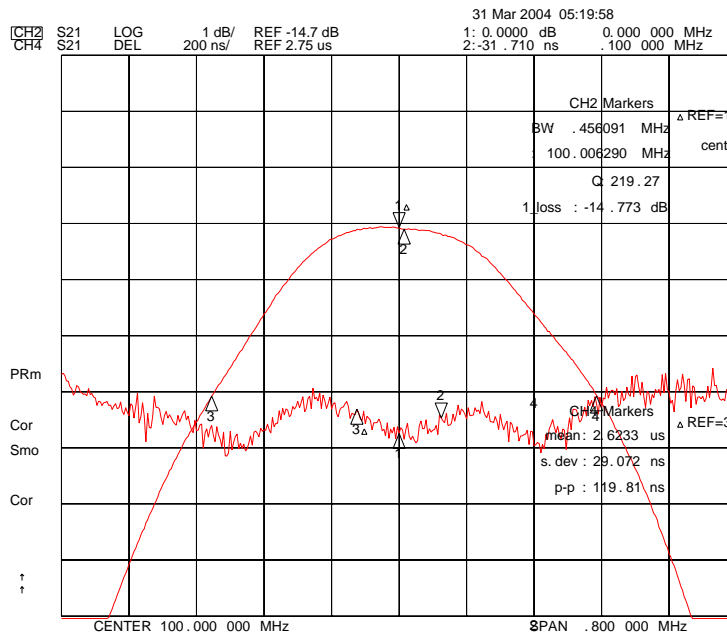
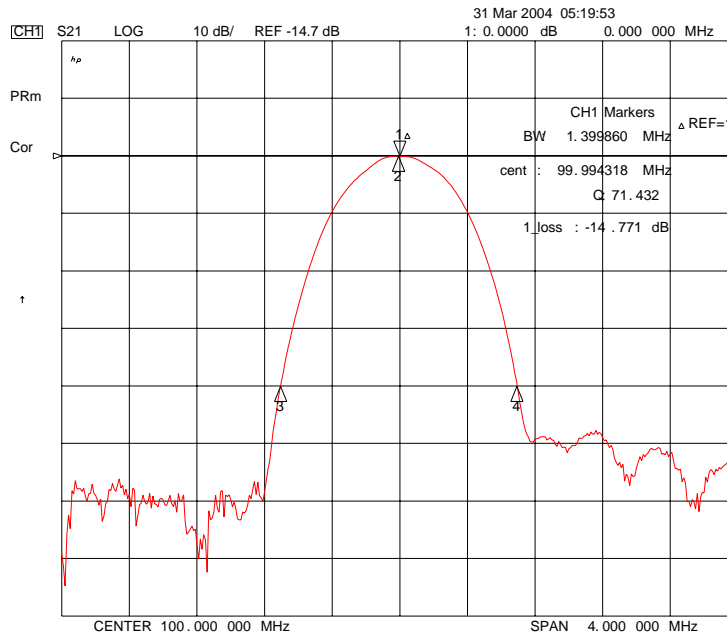
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index


 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205602B	
		Rev. Date	2004-04-02	
		Rev.	NW3007-CS02	3/5

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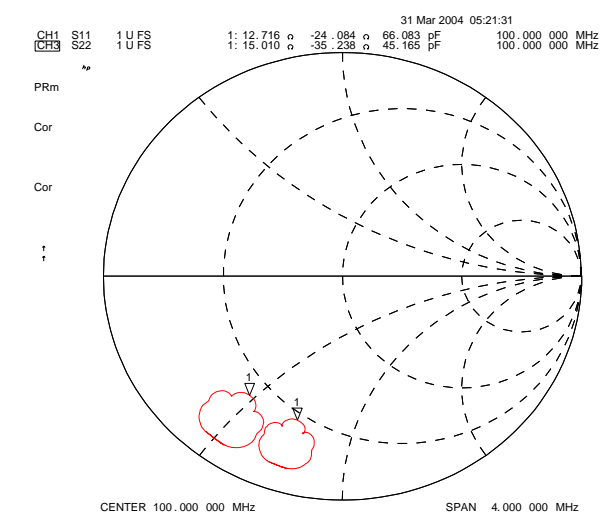
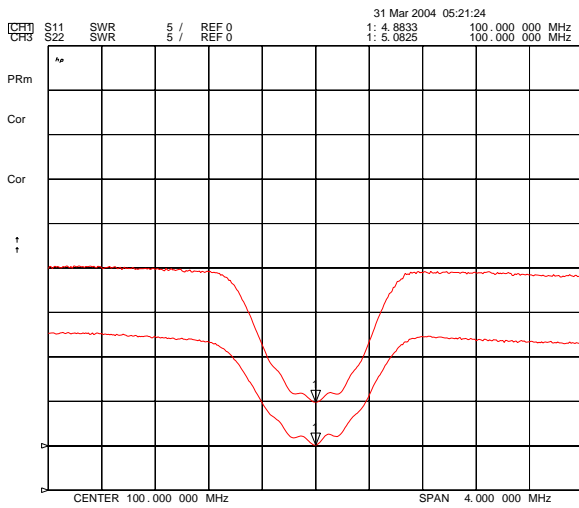
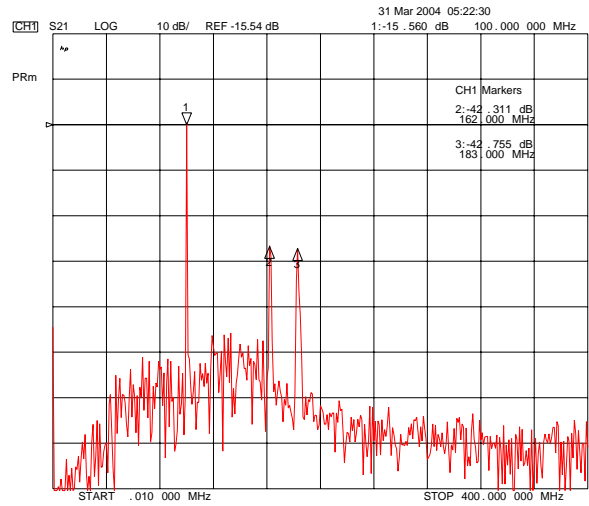
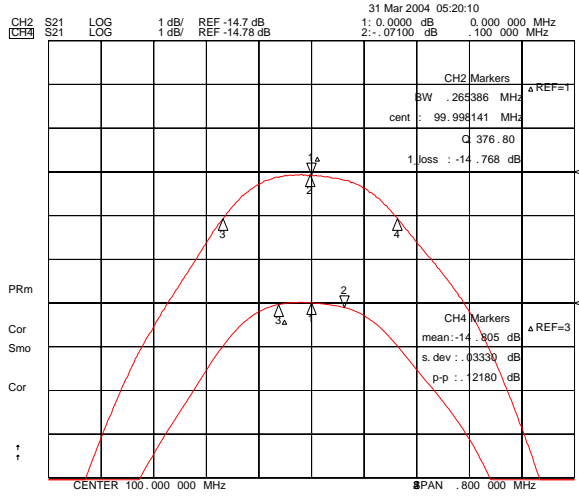


6. Typical Performance (at +25°C)



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		Rev.	NW3007-CS02	4/5

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Part No.	205602B	
Rev. Date	2004-04-02	
Rev.	NW3007-CS02	5/5