

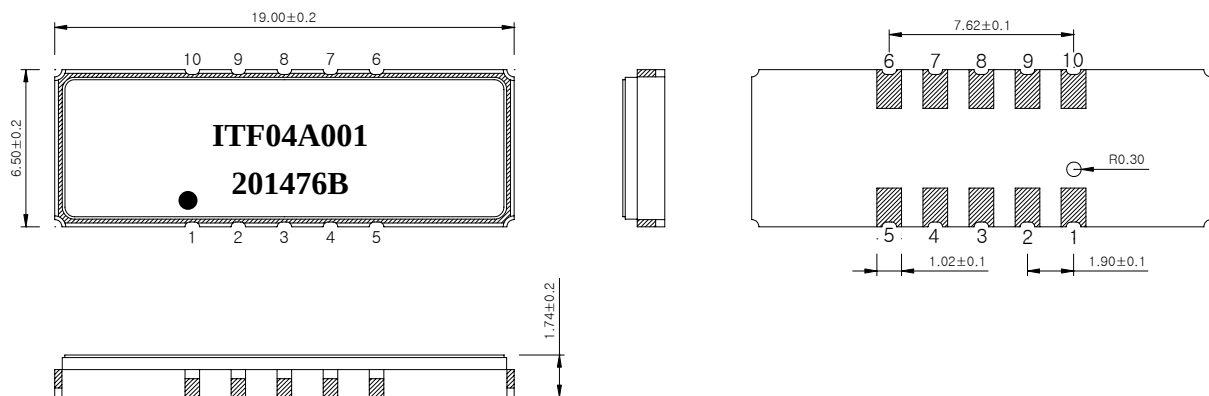
SAW Bandpass Filter 201476B



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
Others	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.	201476B	
		Rev. Date	2004-07-07	
		Rev.	NW3018-CS02	1/5

SAW Bandpass Filter 201476B



3. Specifications

Fo = 160.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	159.95	160.0	160.05
Insertion Loss	dB	-	13.0	15.0
1dB Bandwidth	MHz	-	0.3	-
3dB Bandwidth	MHz	0.35	0.5	4.2
40dB Bandwidth	MHz	-	1.5	1.6
Amplitude Ripple (Fo +/- 0.1 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 0.1 MHz)	nsec	-	290	400
Absolute Delay	usec	-	2.4	-
Ultimate Rejection	dB	40	45	-
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

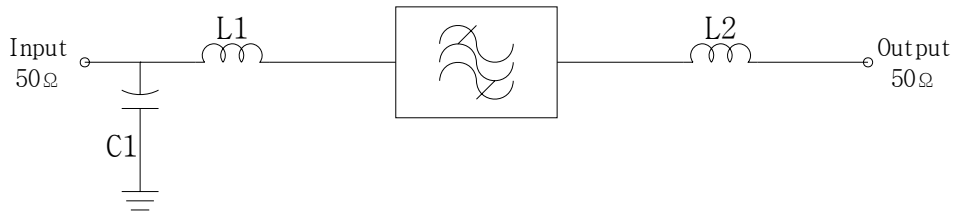
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	201476B	
		Rev. Date	2004-07-07	
		Rev.	NW3018-CS02	2/5

SAW Bandpass Filter 201476B



4. Matching Schematic

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



$$L1 = 47 \text{ nH}, \quad L2 = 39 \text{ nH}$$
$$C1 = 24 \text{ pF}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾

201476B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

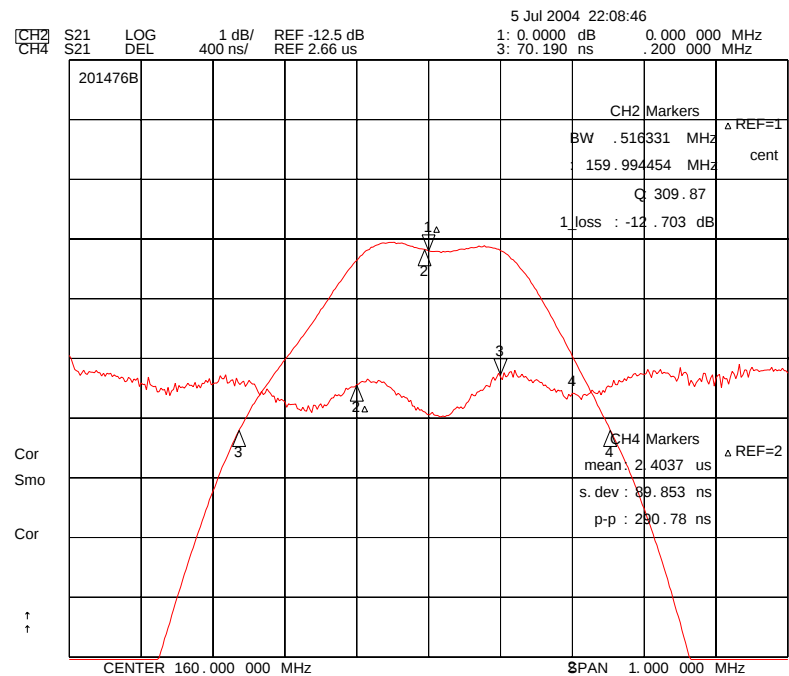
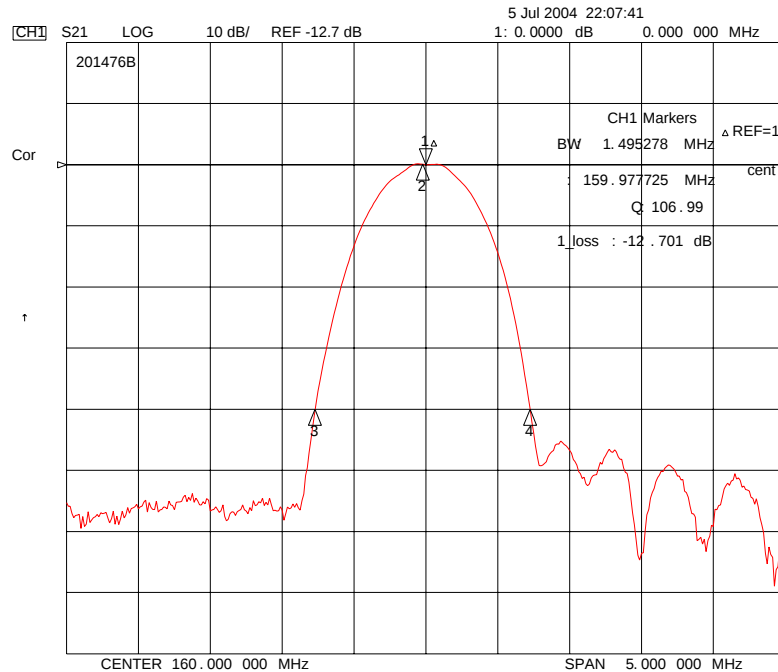
4) Pad Number 1 Index

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	201476B	
		Rev. Date	2004-07-07	
		Rev.	NW3018-CS02	3/5

SAW Bandpass Filter 201476B



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.

201476B

Rev. Date

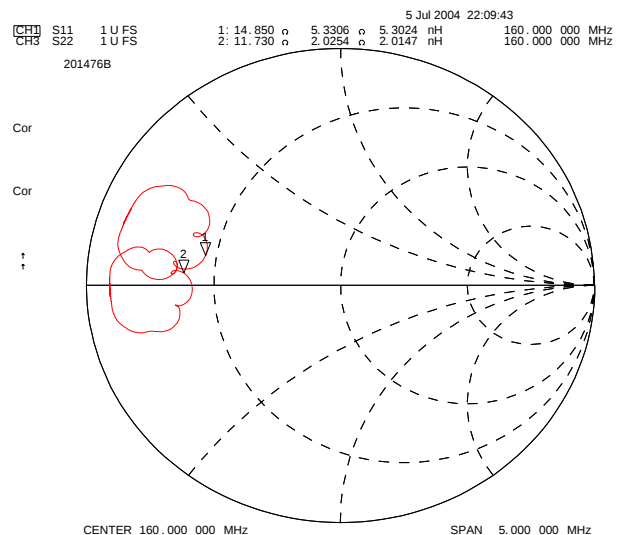
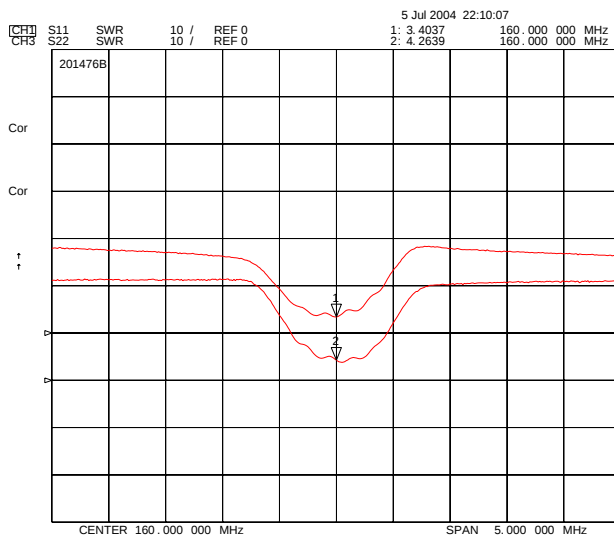
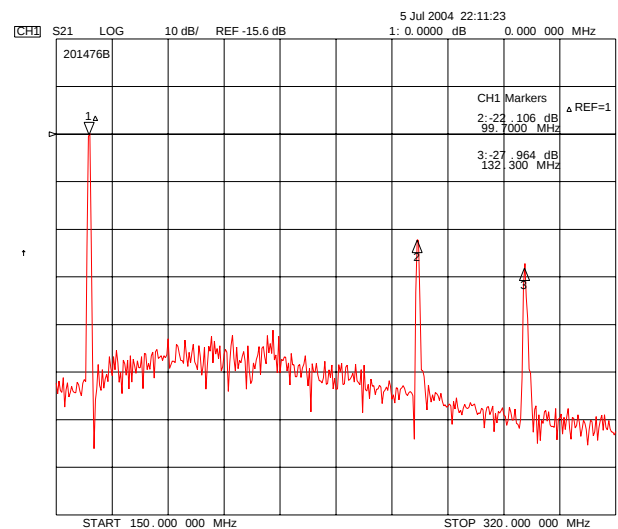
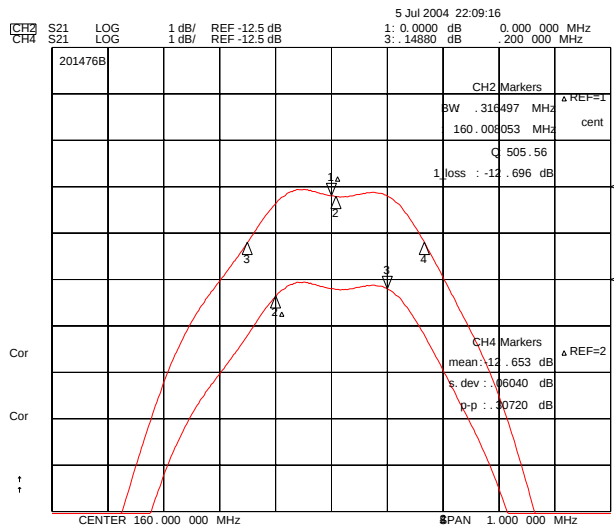
2004-07-07

Rev.

NW3018-CS02

4/5

SAW Bandpass Filter 201476B



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

Part No.

201476B

Rev. Date

2004-07-07

Rev.

NW3018-CS02

5/5