

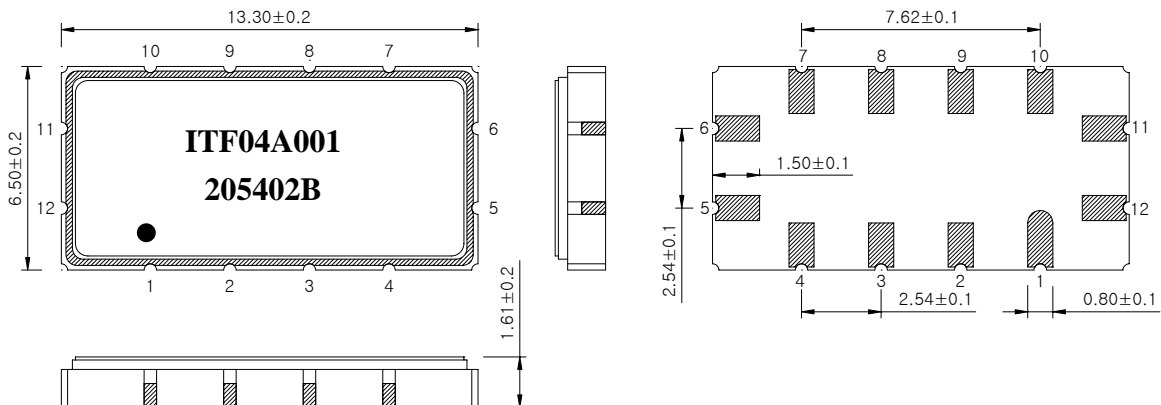
SAW Bandpass Filter 205402B



1. Features

- IF Bandpass Filter
- Low-Loss 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 : S1365

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	
11	Input
5	Output
6, 12	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.	205402B	
Rev. Date	2004-05-04	
Rev.	DS4003-CS01	1/5

SAW Bandpass Filter 205402B



3. Specifications

Fo = 82.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	82.3	82.5	82.7
Insertion Loss	dB	-	13.7	15.0
1dB Bandwidth	MHz	25.5	26.0	-
3dB Bandwidth	MHz	26.4	26.9	-
40dB Bandwidth	MHz	-	30.4	31.0
Amplitude Ripple (Fo +/- 12.5 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 12.5 MHz)	nsec	-	30	100
Absolute Delay	usec	-	1.1	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-82	-

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

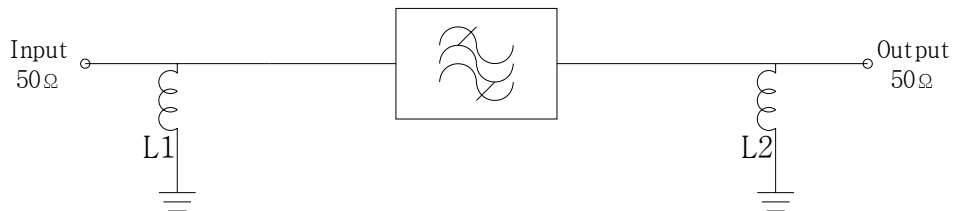
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205402B	
		Rev. Date	2004-05-04	
		Rev.	DS4003-CS01	2/5

SAW Bandpass Filter 205402B



4. Matching Schematic

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



L1 = 56 nH,

L2 = 68 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾

205402B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

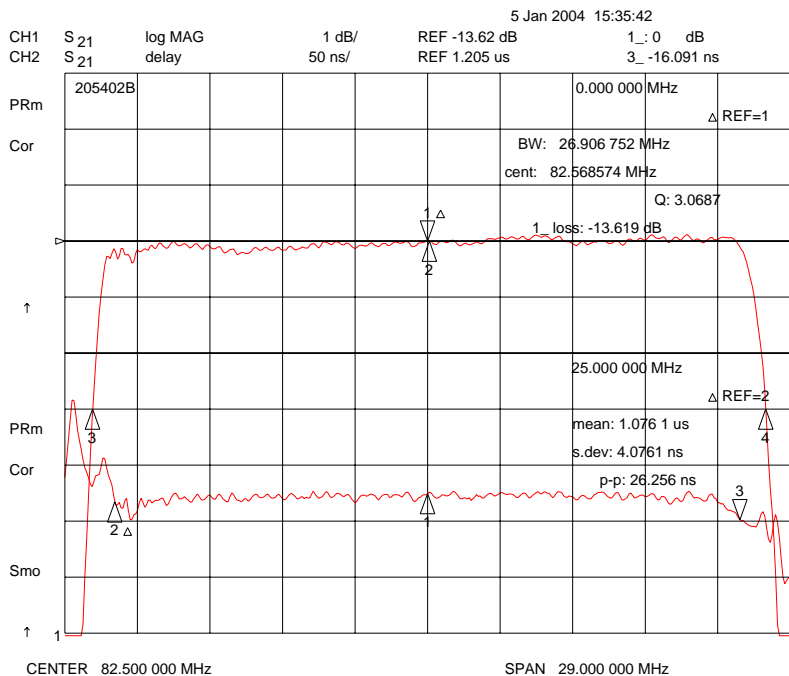
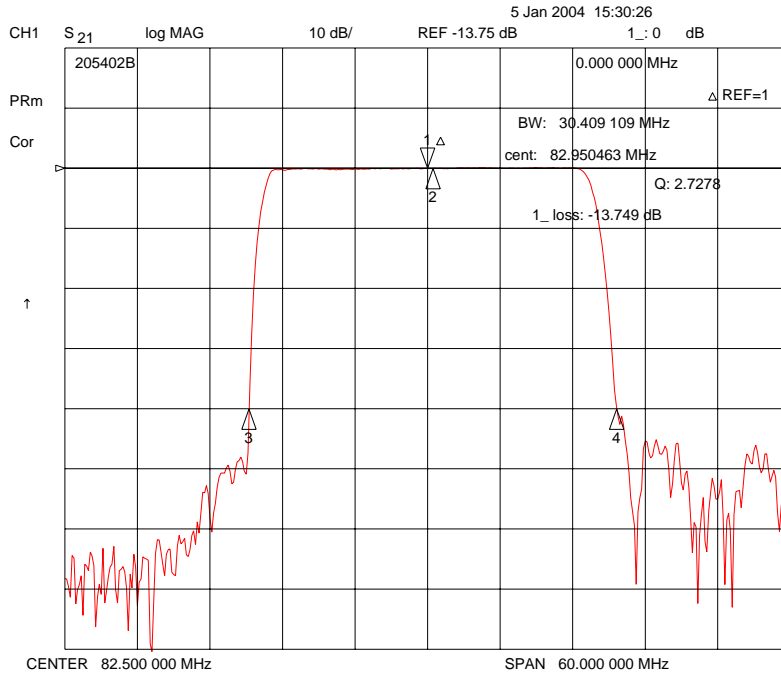
4) Pad Number 1 Index

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205402B	
		Rev. Date	2004-05-04	
		Rev.	DS4003-CS01	3/5

SAW Bandpass Filter 205402B



6. Typical Performance (at +25°C)



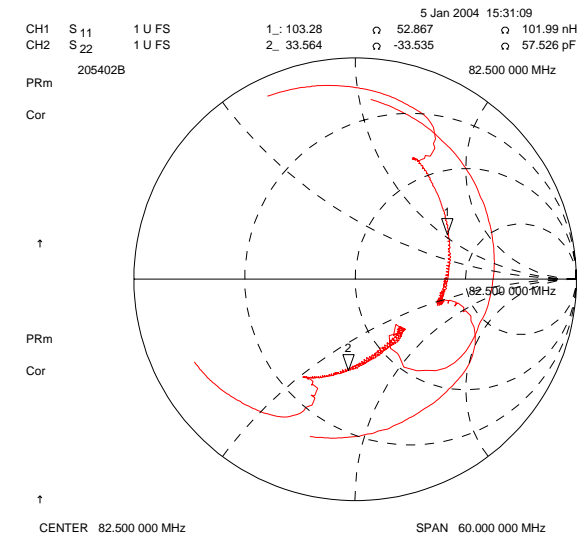
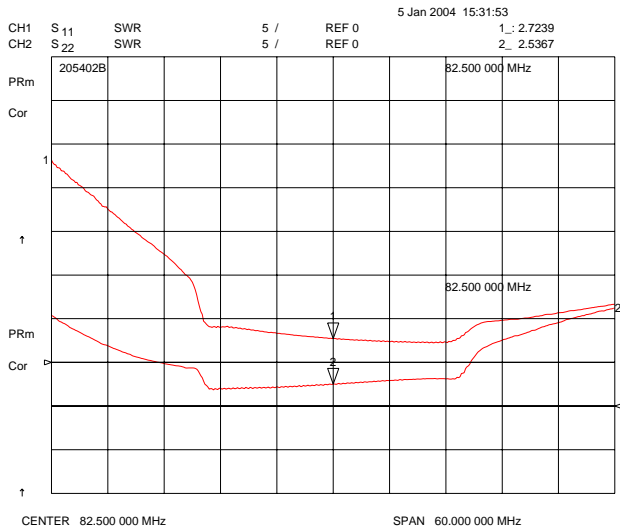
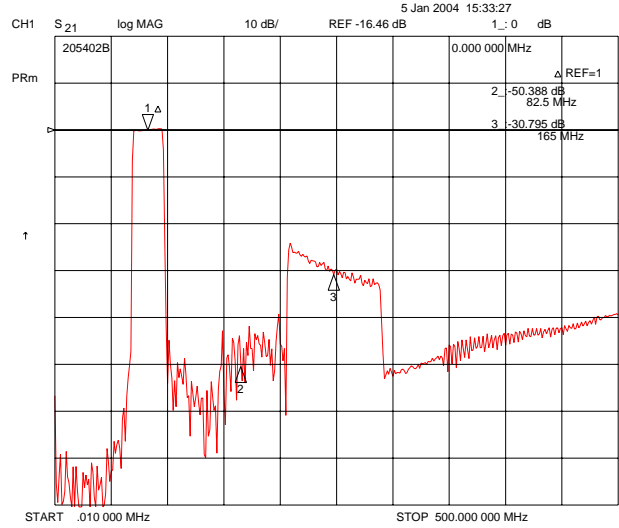
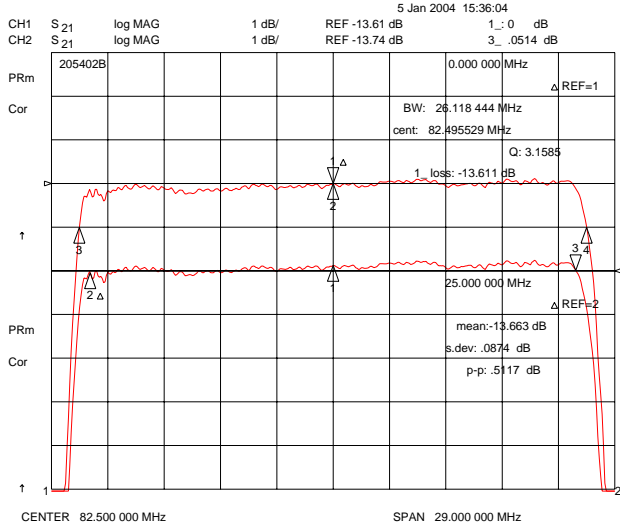
ITF Co., Ltd.
102-901, Bucheon Technopark 364,
Samjeong-Dong, Ojeong-Gu, Bucheon-City,
Gyeonggi-Do, Korea 421-809

Part No. 205402B

Rev. Date 2004-05-04

Rev. DS4003-CS01 4/5

SAW Bandpass Filter 205402B



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

Part No.	205402B	
Rev. Date	2004-05-04	
Rev.	DS4003-CS01	5/5