

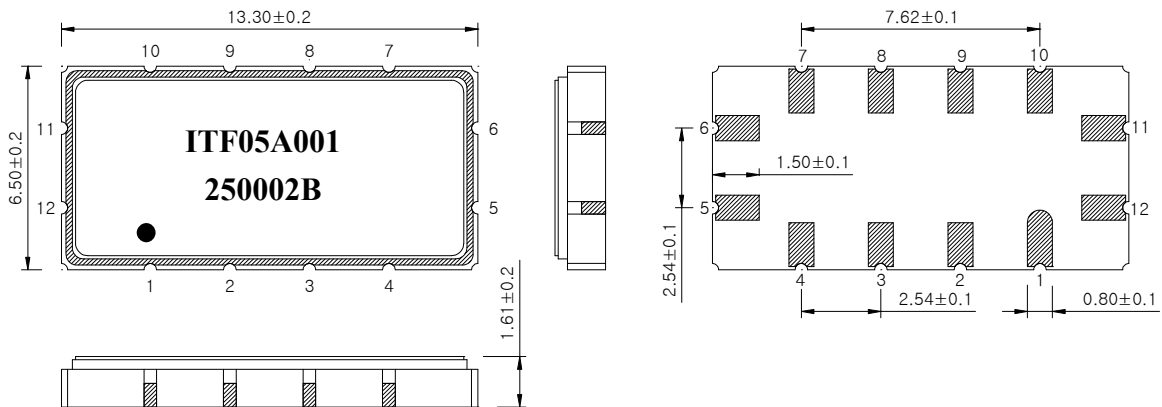
SAW Bandpass Filter 250002B



1. Features

- IF Bandpass Filter
- High-Attenuation
- 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.	250002B	
		Rev. Date	2005-04-04	
		Rev.	NW5003-AS01	1/12

SAW Bandpass Filter 250002B



3. Specifications

F_o = 105.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	104.93	105.0	105.07
Insertion Loss	dB	-	10.0	12.0
1dB Bandwidth	MHz	0.2	0.37	-
3dB Bandwidth	MHz	0.4	0.52	-
30dB Bandwidth	MHz	-	1.06	1.2
Amplitude Ripple (F _c +/- 0.1 MHz)	dB	-	0.3	1.0
Group Delay Variation (F _c +/- 0.1 MHz)	nsec	-	250	500
Absolute Delay	usec	-	1.8	-
Return Loss(F _c +/- 0.1 MHz)	dB	10	15	
Relative Attenuation				-
F _c +/- 0.6 MHz	dB	25	30	
F _c +/- 0.8 MHz	dB	30	35	
F _c +/- 1.6 MHz	dB	35	40	
Other Frequency	dB	40	50	
Temperature Coefficient of Frequency	ppm/°C	-	-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

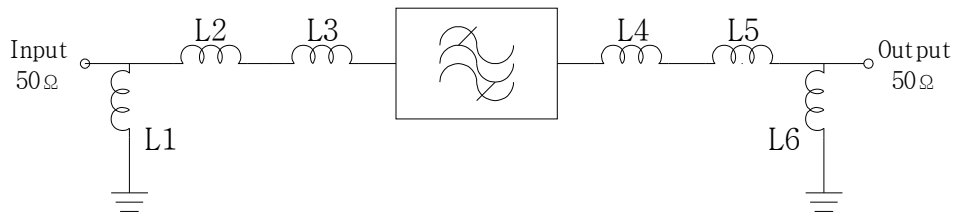
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250002B	
		Rev. Date	2005-04-04	
		Rev.	NW5003-AS01	2/12

SAW Bandpass Filter 250002B



4. Matching Schematic

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



$L1 = L6 = 56 \text{ nH}$
 $L2 = 27 \text{ nH}, \quad L5 = 10 \text{ nH}$
 $L3 = L4 = 220 \text{ nH}$

5. Marking Configuration

ITF¹⁾ 05A001²⁾

250002B³⁾

● ⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

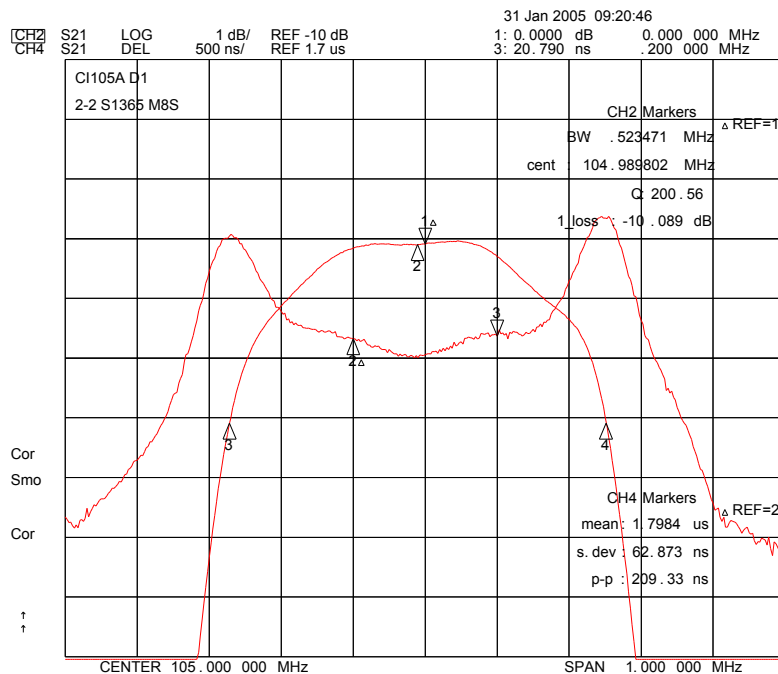
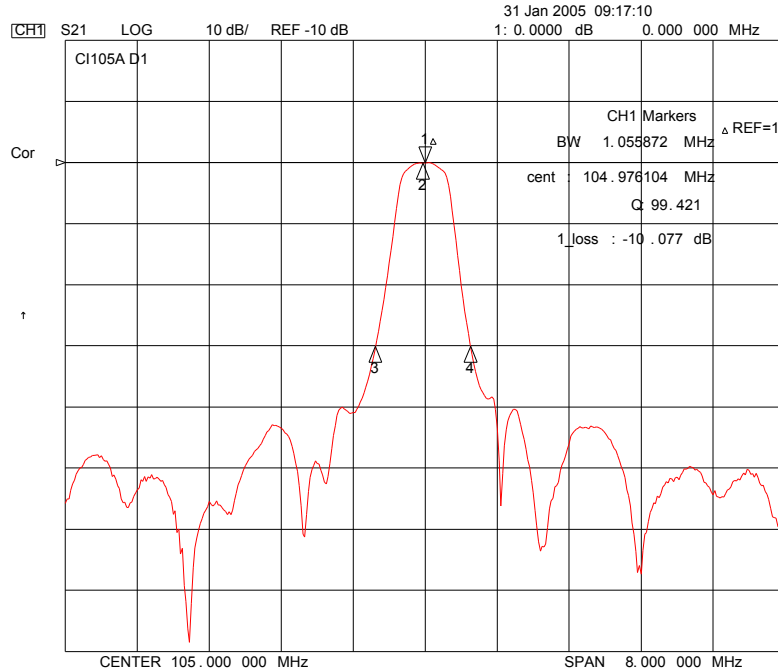
4) Pad Number 1 Index

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250002B	
		Rev. Date	2005-04-04	
		Rev.	NW5003-AS01	3/12

SAW Bandpass Filter 250002B

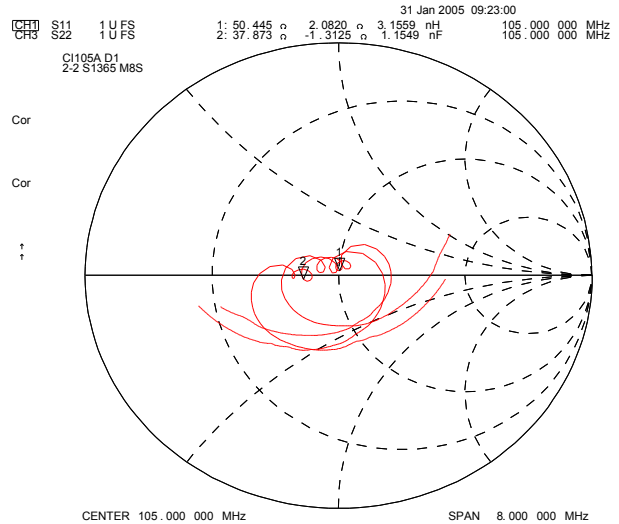
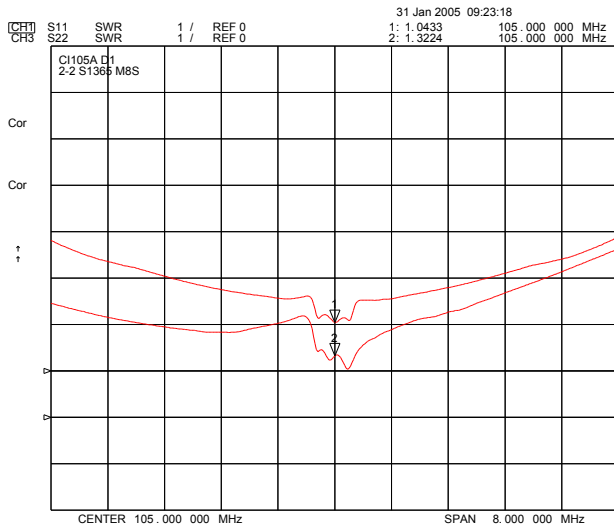
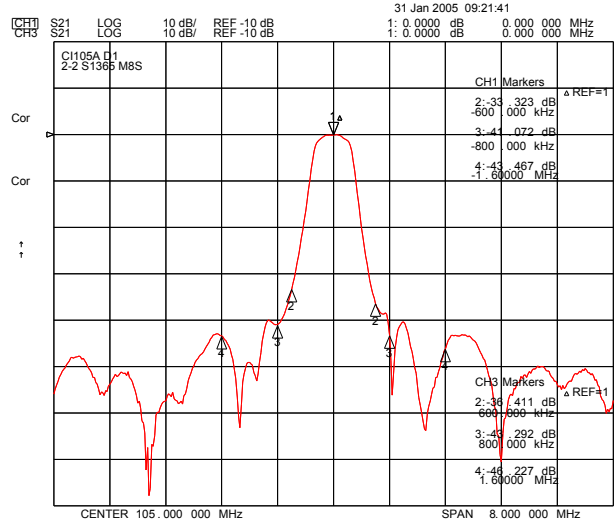
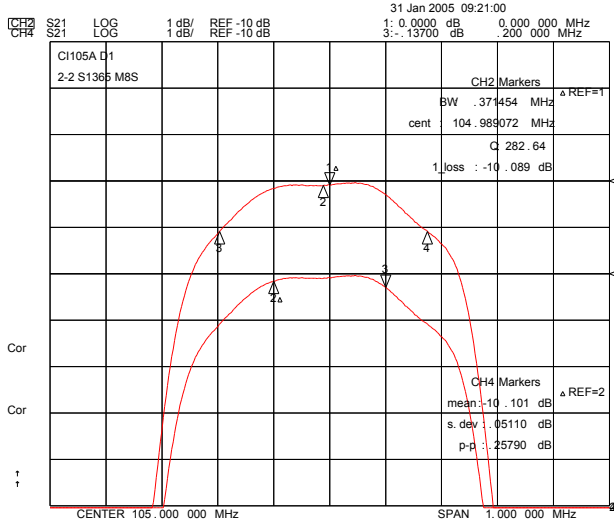


6. Typical Performance (at +25°C)



	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250002B	
		Rev. Date	2005-04-04	
		Rev.	NW5003-AS01	4/12

SAW Bandpass Filter 250002B



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

Part No.	250002B	
Rev. Date	2005-04-04	
Rev.	NW5003-AS01	5/12