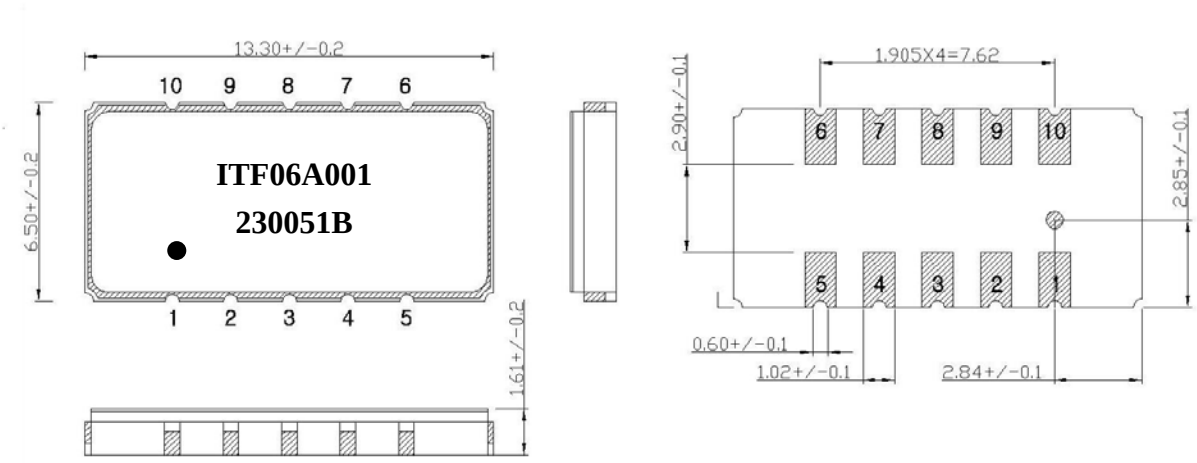
SAW Bandpass Filter 230051B

1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended and Balanced Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S1366

Pad Configuration	
5	Input
6	Input Return
10	Output
1	Output Return
Others	Case ground

Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic
Lid : Kovar, Ni Plated
Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

SAW Bandpass Filter 230051B

3. Specifications

Fo = 71.0MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -20 to +80℃		Minimum	Typical	Maximum
Center Frequency at 2dB Bandwidth	MHz	70.97	71.0	71.03
Insertion Loss(4)	dB	-	6.85	8.0
2dB Bandwidth	MHz	0.18	0.32	-
3dB Bandwidth	MHz	0.22	0.35	-
5dB Bandwidth	MHz	-	0.38	0.5
20dB Bandwidth	MHz	-	0.56	0.7
30dB Bandwidth	MHz	-	0.72	1.0
35dB Bandwidth	MHz	-	0.81	1.4
Amplitude Ripple (Fo +/- 0.08 MHz)	dB	-	0.35	1.0
Group Delay Variation (Fo +/- 0.05 MHz)	nsec	-	200	1500
Absolute Delay	usec		2.65	
Ultimate Rejection(5)	dB	40	47	-
Temperature Coefficient of Frequency	ppm/°C^2	-	-0.03	-

Notes :

1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.

2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

3) All attenuation measurements are measured relative to insertion loss

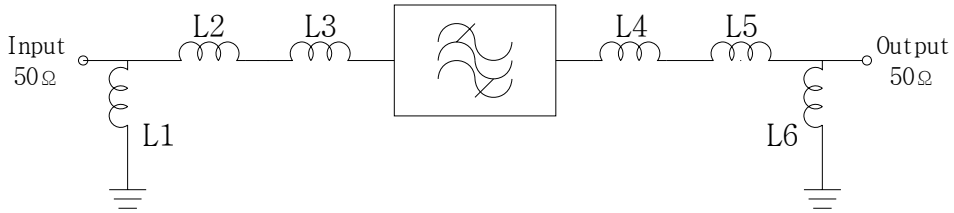
4) Insertion Loss is minimum loss within passband at ambient temperature with matching network

5) from 10 MHz to 68.5 MHz and from 73.5 MHz to 130 MHz

4. Matching Schematic

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

Single Ended



L1 = 82 nH, L2 = 18 nH, L3 = 330 nH

L4 = 330 nH, L5 = 68 nH, L6 = 82 nH

5. Marking Configuration

ITF[1] 06A001[2]

230051B[3]

● [4]

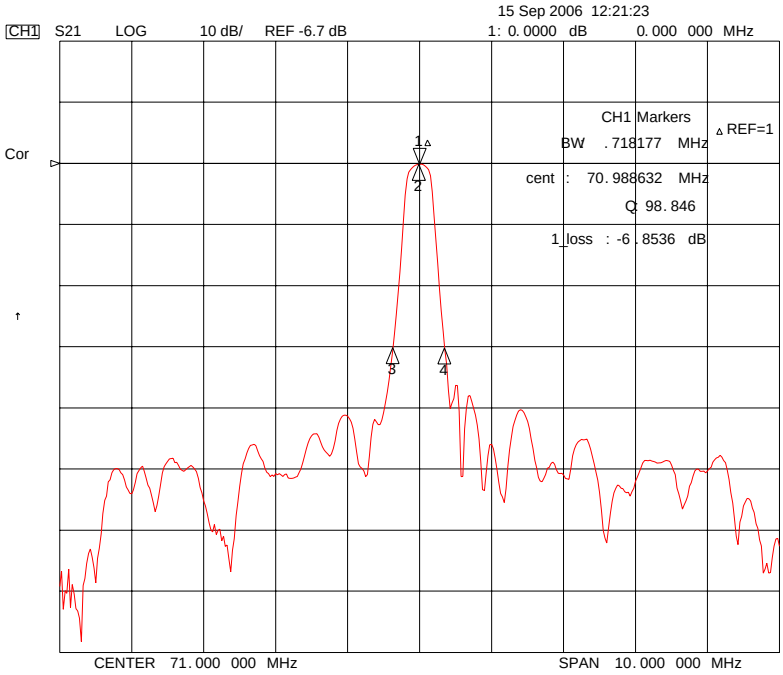
1) Manufacturer name

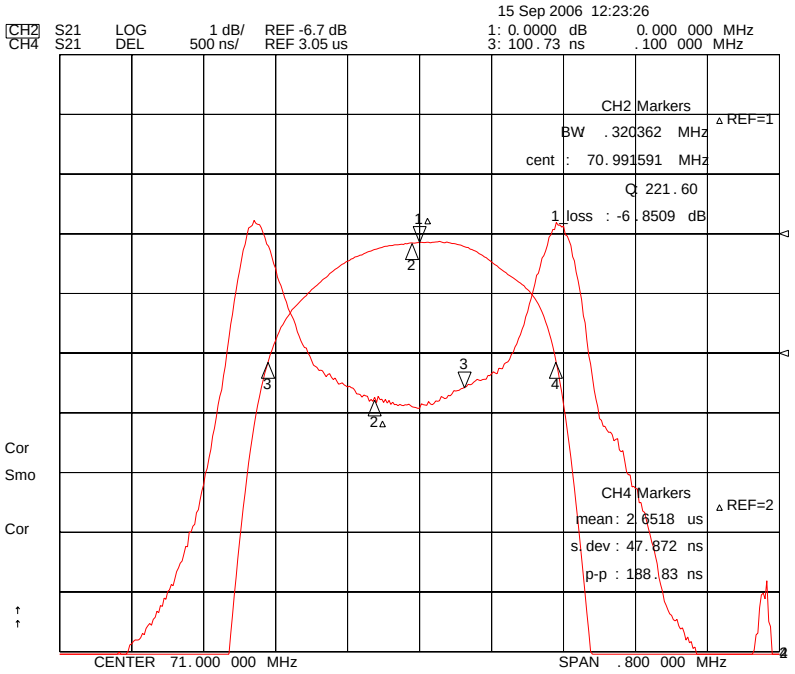
2) Lot Number

3) Part Number

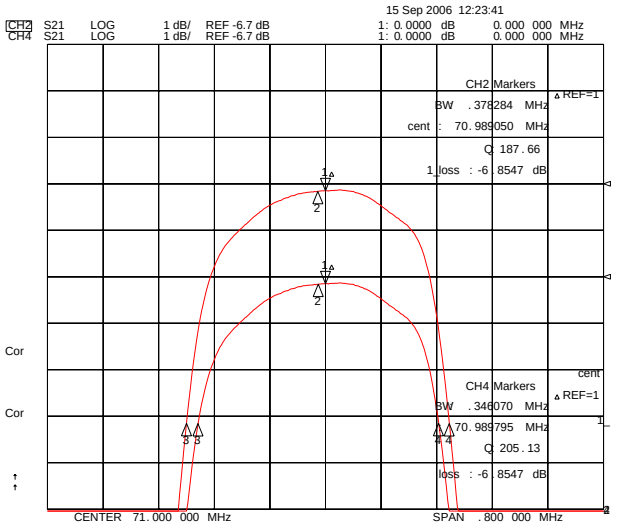
4) Pad Number 1 Index

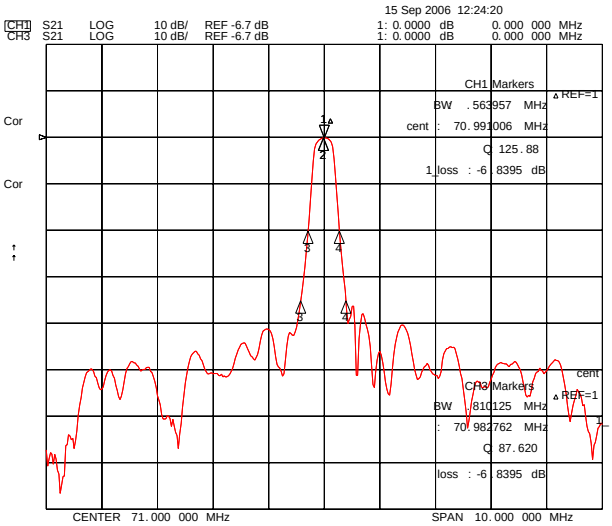
6. Typical Performance (at +25℃)

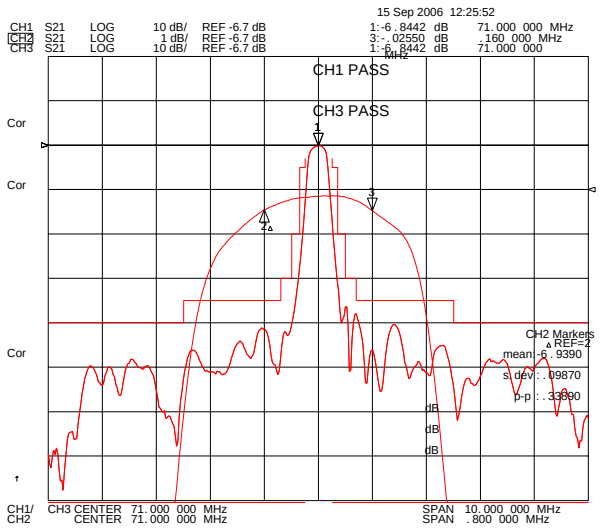


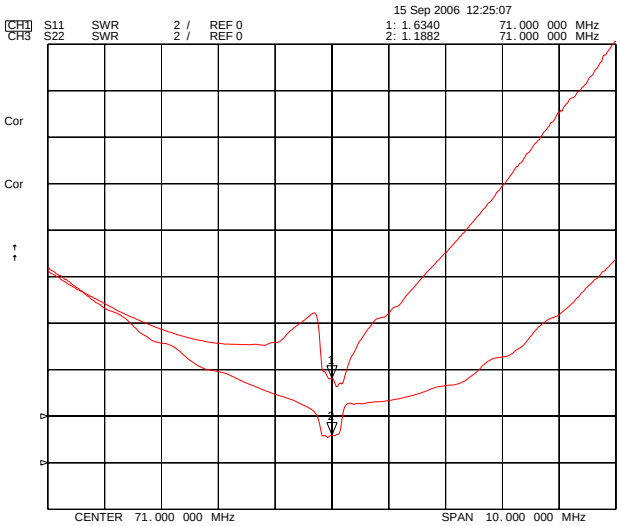


SAW Bandpass Filter 230051B









I T F Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyounggi-Do, Korea 421-809	Part No.	230051B	
	Rev. Date	2006-09-21	
	Rev.	DS4046- CS03	5/5