

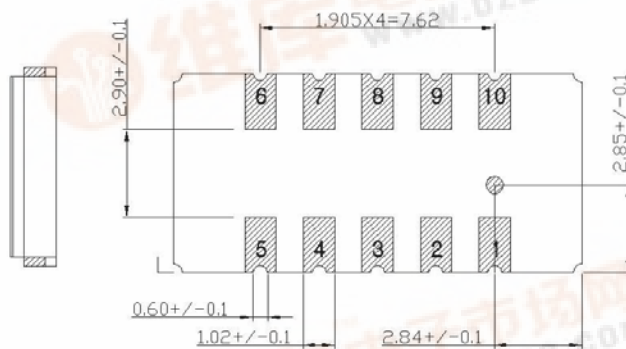
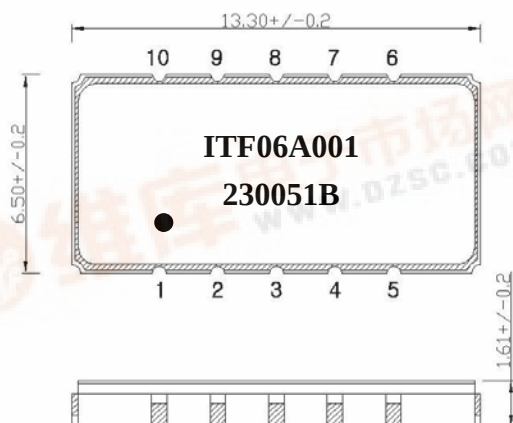
SAW Bandpass Filter 230051B



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

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

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



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

Part No.	230051B	
Rev. Date	2006-09-21	
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3. Specifications

$F_o = 71.0\text{MHz}$

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 ($F_o \pm 0.08\text{ MHz}$)	dB	-	0.35	1.0
Group Delay Variation ($F_o \pm 0.05\text{ MHz}$)	nsec	-	200	1500
Absolute Delay	usec		2.65	
Ultimate Rejection ⁽⁵⁾	dB	40	47	-
Temperature Coefficient of Frequency	ppm/℃ 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

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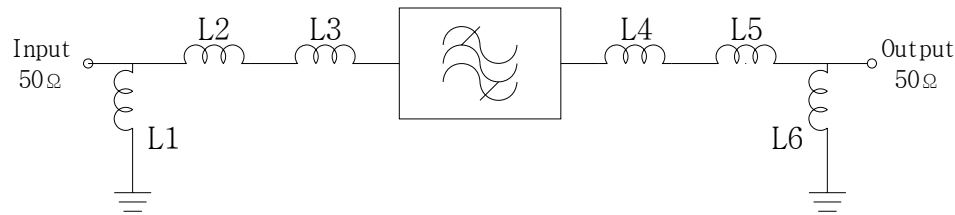
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4. Matching Schematic

(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

ITF¹⁾06A001²⁾
230051B³⁾
● ⁴⁾

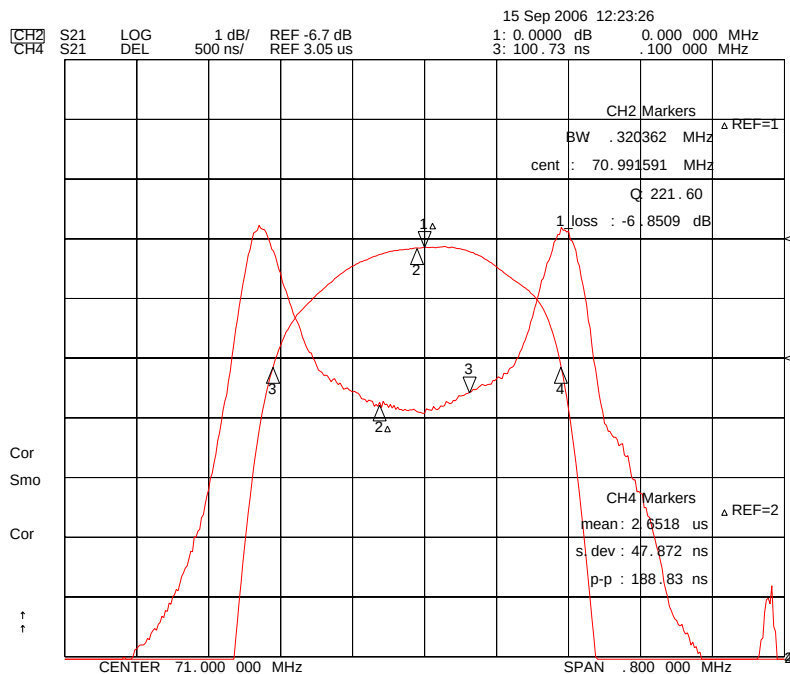
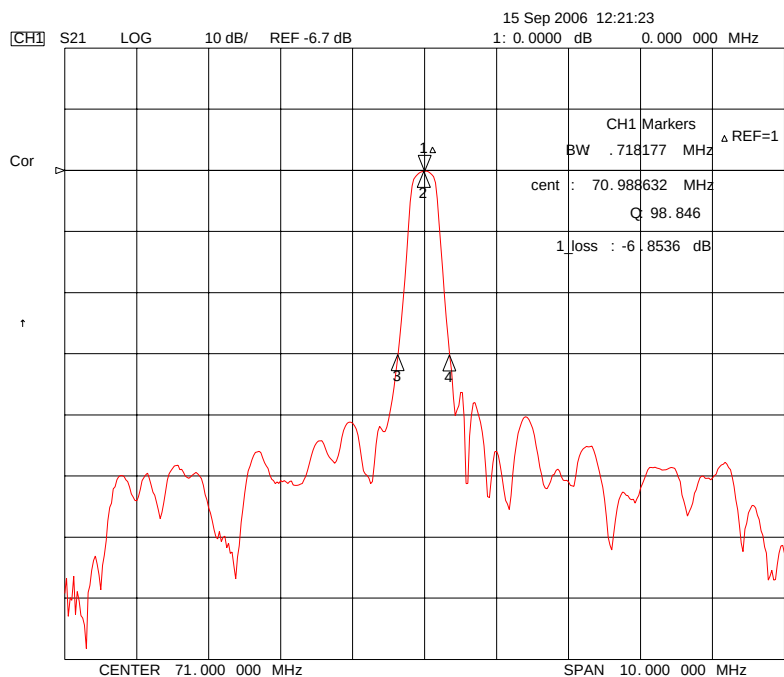
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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6. Typical Performance (at +25℃)



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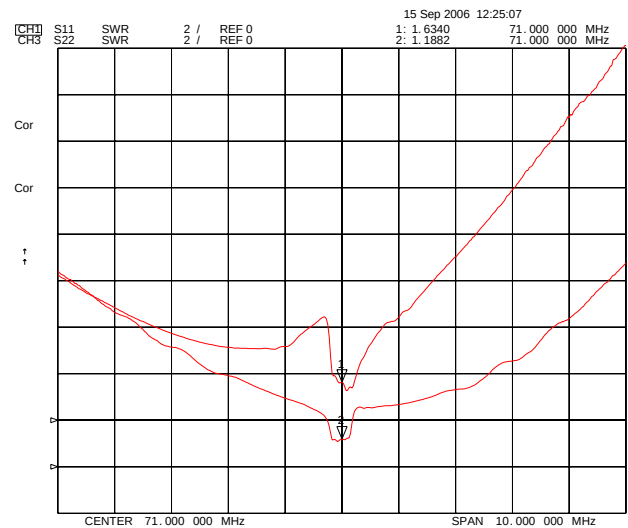
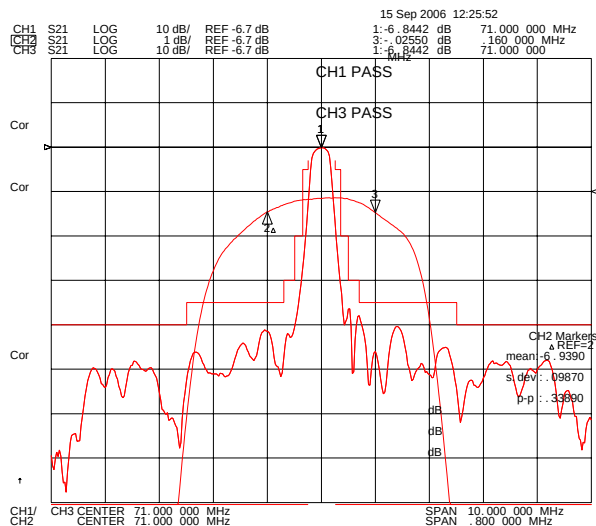
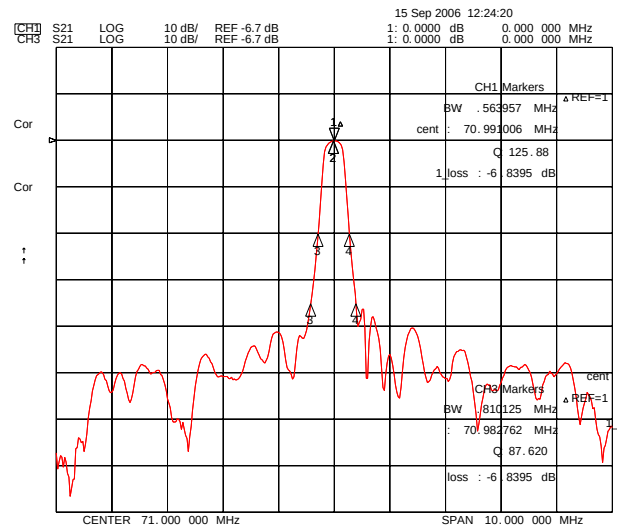
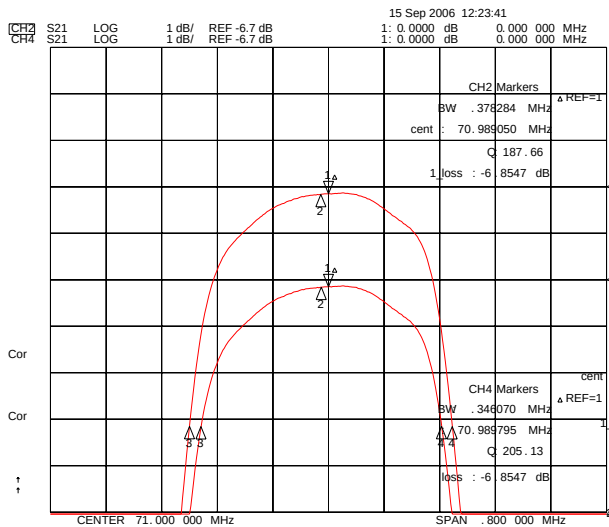
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