

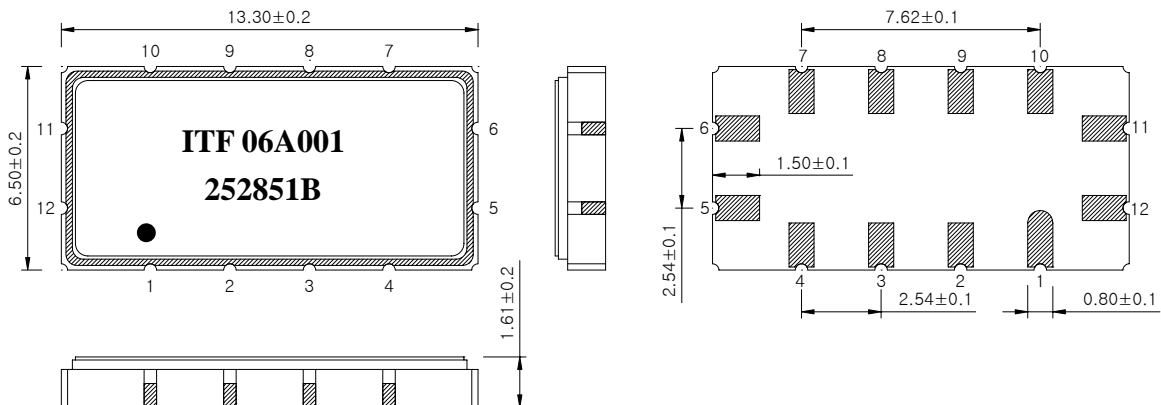
SAW Bandpass Filter 252851B



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.	252851B	
Rev. Date	2006-03-04	
Rev.	NJ6004-CS01	1/5

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3. Specifications

Fo = 100 MHz

Operating temperature range : -25 to + 70 °C		Minimum	Typical	Maximum
Center Frequency	MHz	99.8	100	100.2
Insertion Loss	dB	-	11.5	13.5
1dB Bandwidth	MHz	27.9	28	-
3dB Bandwidth	MHz		28.8	-
40dB Bandwidth	MHz	-	32.5	35
Amplitude Ripple (Fo +/- 13.07 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 13.07 MHz)	nsec	-	35	50
Absolute Delay	usec	-	0.9	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Room temperature : + 25 °C		Minimum	Typical	Maximum
Center Frequency	MHz	99.1	100	100.1
Insertion Loss	dB	-	11.5	13.0
Amplitude Ripple (Fo +/- 13.5 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 13.5 MHz)	nsec	-	50	100

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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

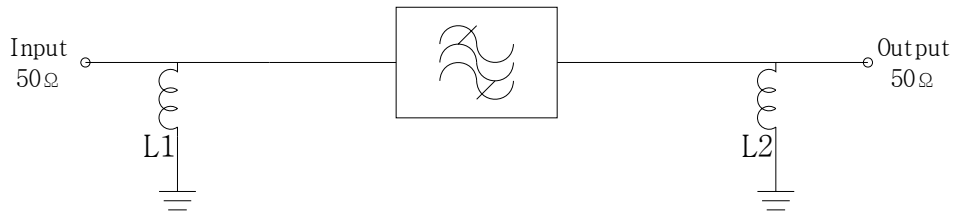
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4. Matching Schematic

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



L1 =39 nH,

L2 =27 nH

5. Marking Configuration

ITF¹⁾06A001²⁾

252851B³⁾

● ⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

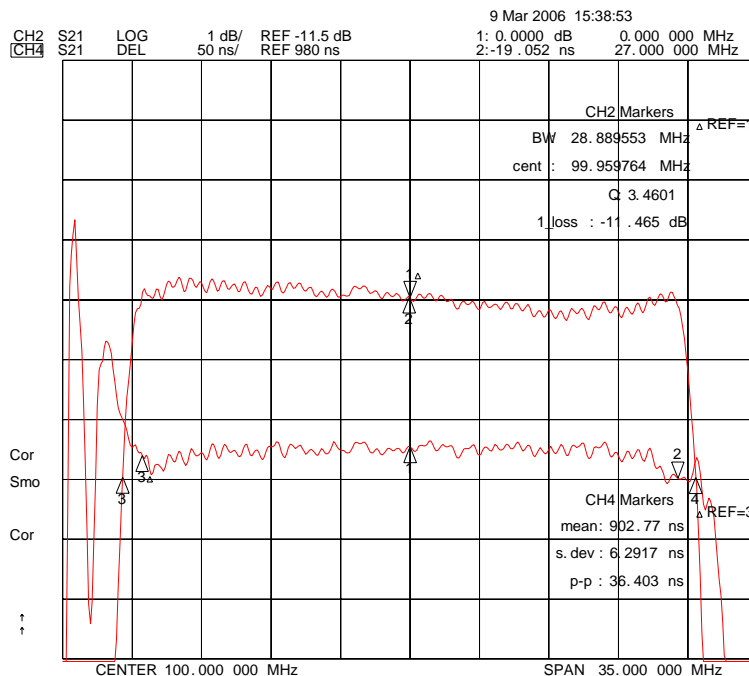
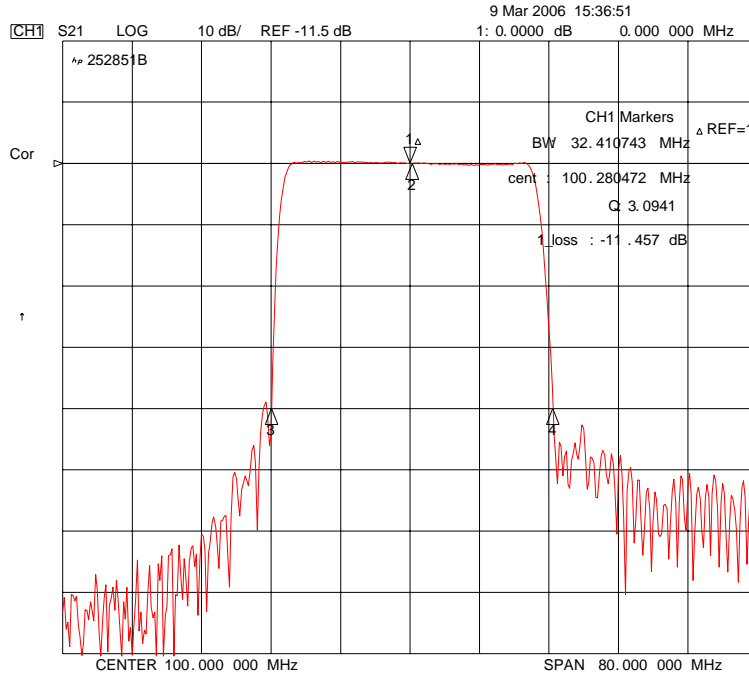
4) Pad Number 1 Index

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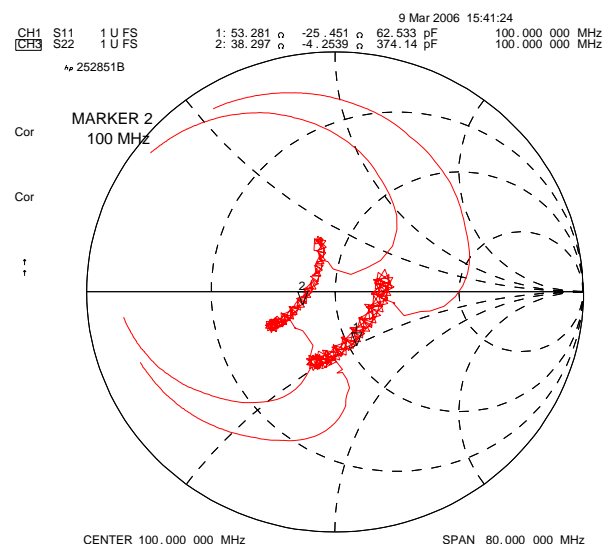
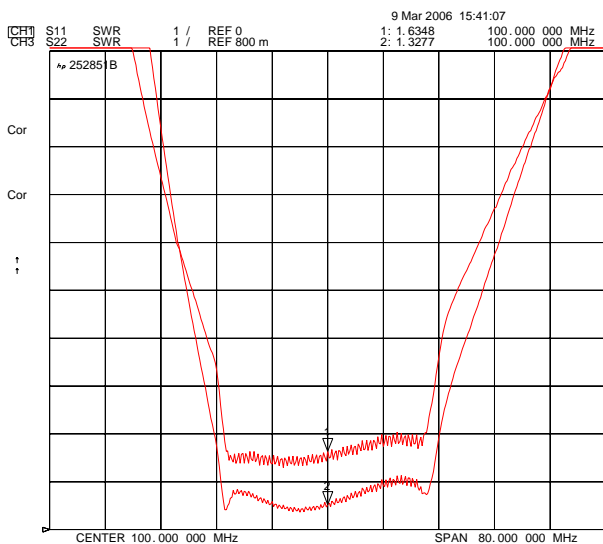
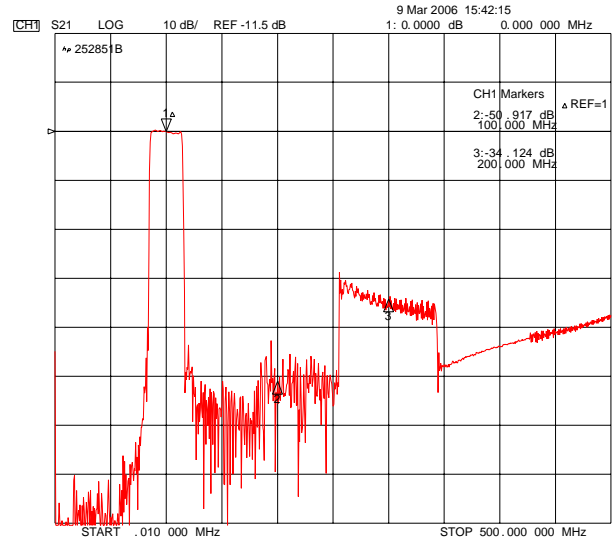
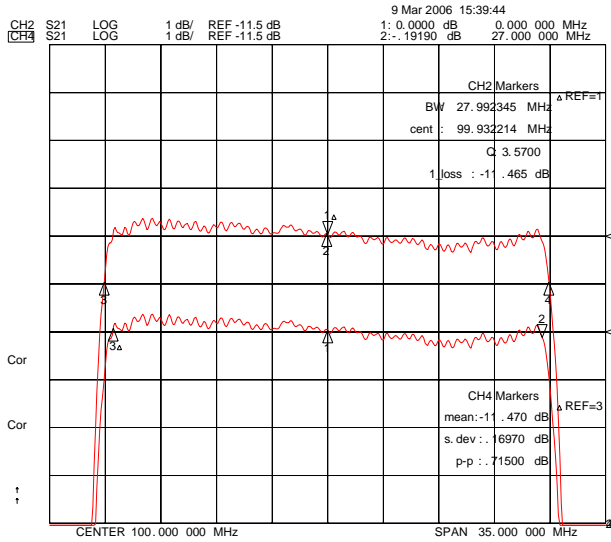
6. Typical Performance (at +25°C)



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