

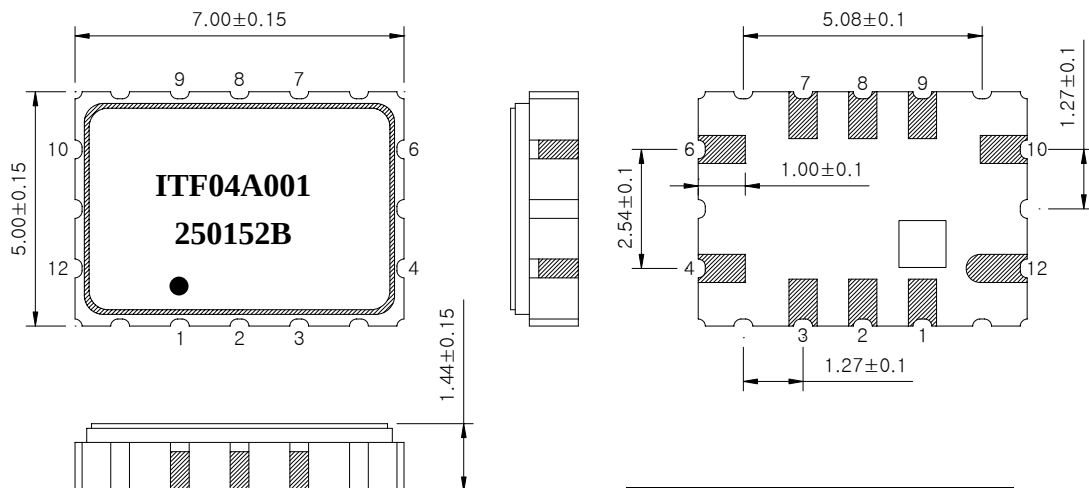
SAW Bandpass Filter 250152B



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 : S7050

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	
10	Input
4	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.	250152B		
Rev. Date	2004-05-27		
Rev.	NW4011-CS01	1/5	

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3. Specifications

Fo = 110.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	110.0	-
Insertion Loss	dB	-	8.7	13.0
1dB Bandwidth	MHz	-	1.0	-
3dB Bandwidth	MHz	1.0	1.4	-
40dB Bandwidth	MHz	-	3.75	4.0
Amplitude Ripple (Fo +/- 0.25 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 0.25 MHz)	nsec	-	100	200
Absolute Delay	usec	-	0.72	-
Ultimate Rejection	dB	35	45	-
Temperature Coefficient of Frequency	ppm/℃	-	-13	-

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

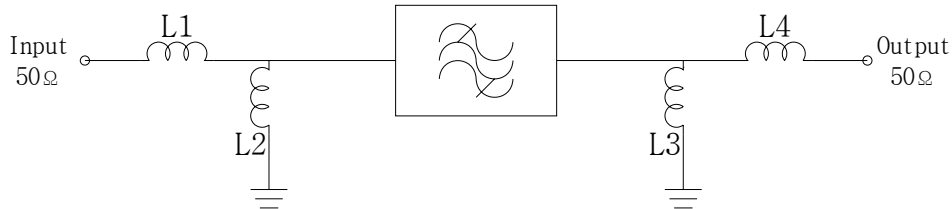
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250152B	
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4. Matching Schematic

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



$$L1 = L4 = 82 \text{ nH}$$

$$L2 = 150 \text{ nH}, \quad L3 = 180 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾

250152B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

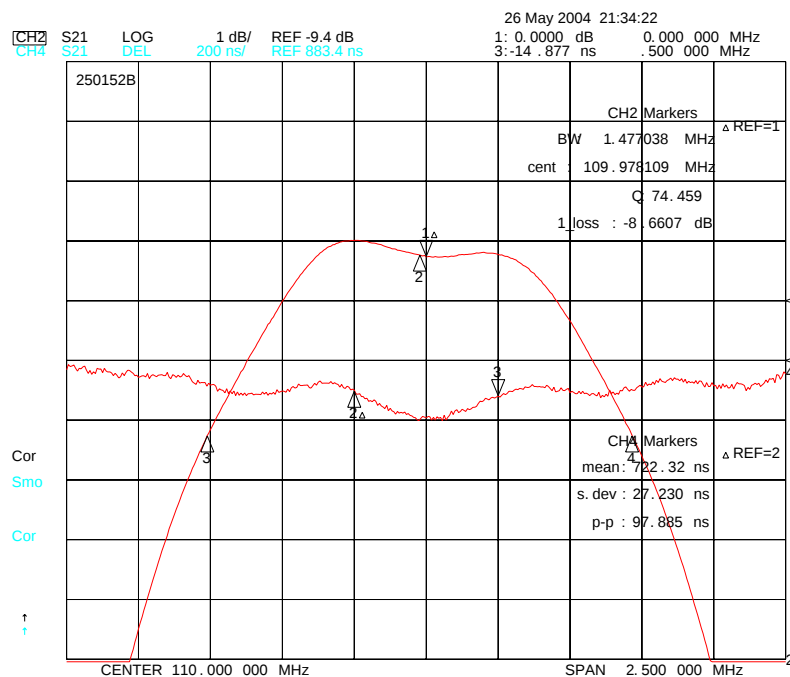
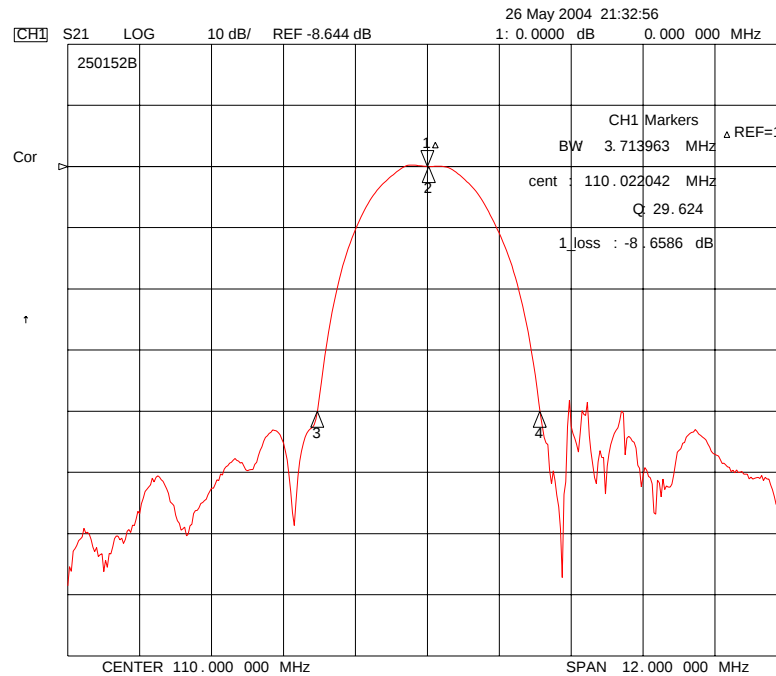
4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



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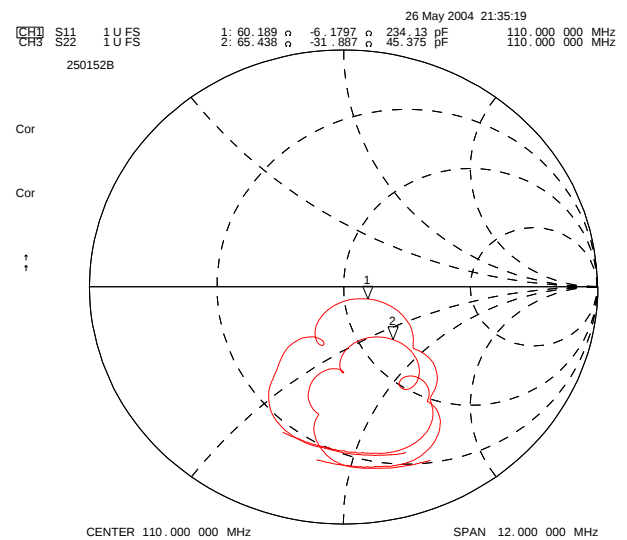
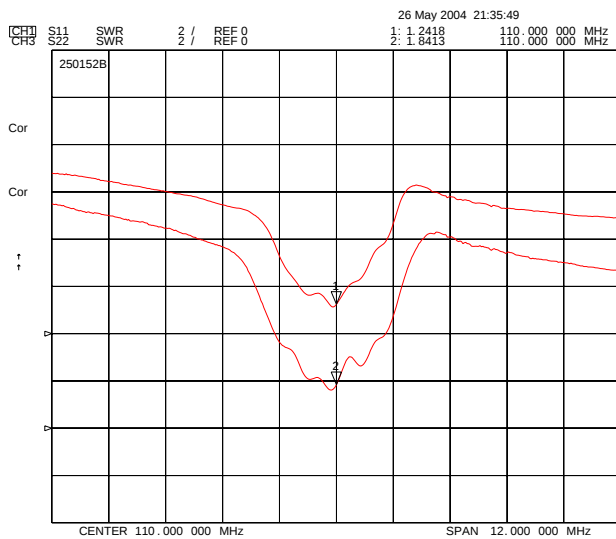
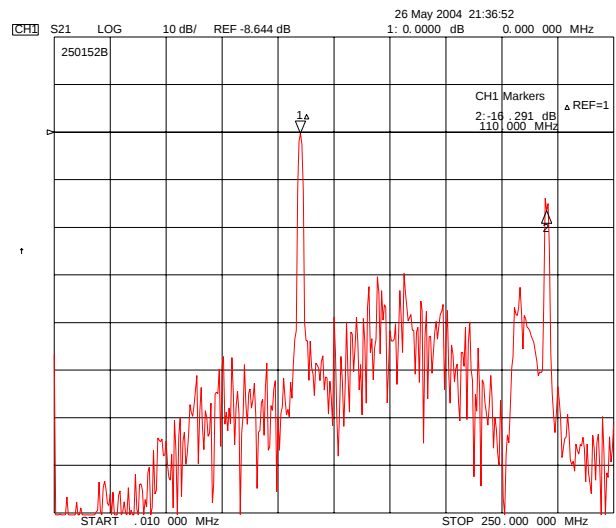
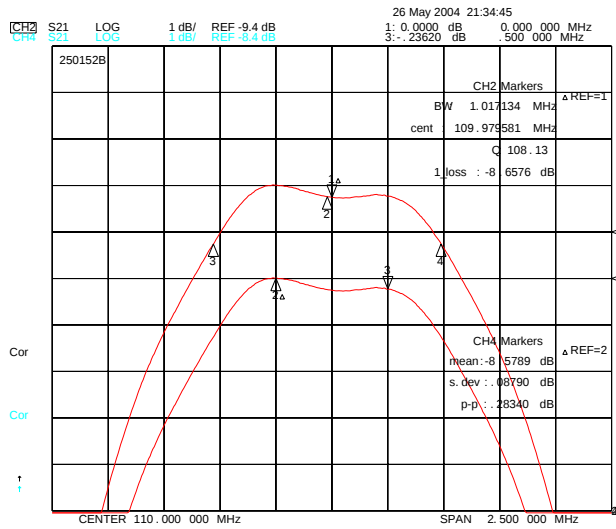
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