

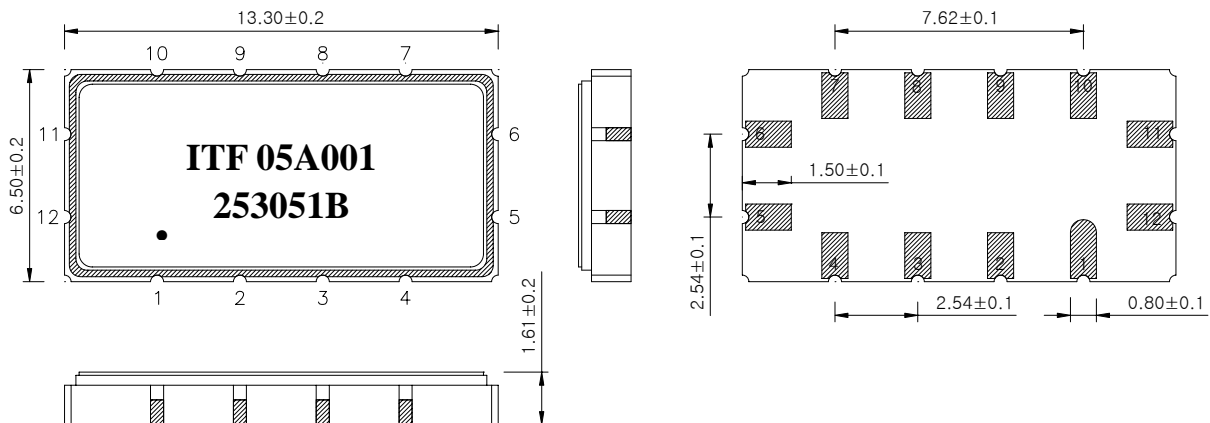
SAW Bandpass Filter 253051B



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 Dimension



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

Pin 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.	253051B	
		Rev. Date	2005-11-09	
		Rev.	NJ5007-CS01	1/5

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3. Specifications


Fo = 125 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -25℃ ~ +75℃		Minimum	Typical	Maximum
Center Frequency	MHz	124.6	125.0	125.4
Insertion Loss	dB	-	11.5	13.5
1dB Bandwidth	MHz	28.5	29.7	-
3dB Bandwidth	MHz	-	30.5	-
40dB Bandwidth	MHz	-	35.2	36.0
Amplitude Ripple (Fo +/- 13.5 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 13.5 MHz)	nsec	-	35	50
Absolute Delay	usec	-	0.68	-
Relative Attenuation				
0.0 ~ 105.0 MHz	dB	40	45	-
147.0 ~ 320.0 MHz	dB	40	45	-
320.0 ~ 500.0 MHz	dB	30	35	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Room temperature : + 25℃		Minimum	Typical	Maximum
Center Frequency	MHz	125.85	125.0	125.15
Insertion Loss	dB		11.5	13.0
Amplitude Ripple (Fo +/- 13.75 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 13.75 MHz)	nsec	-	35	50

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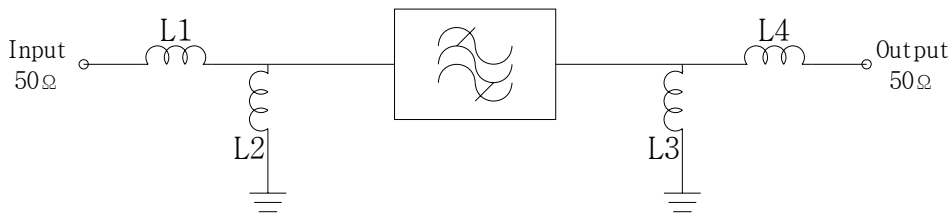


Notes :

- 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

4. Matching Schematic

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



L1 = 15 nH, L2 = 39 nH

L3 = 22 nH, L4 = 18 nH

5. Marking Configuration

ITF¹⁾ 05A001²⁾

253051B³⁾

● 4)

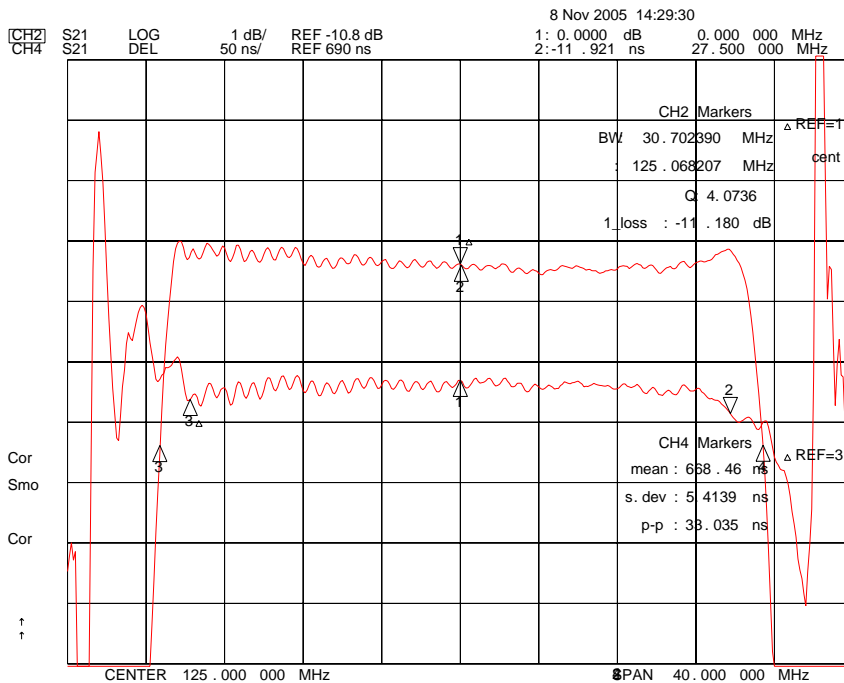
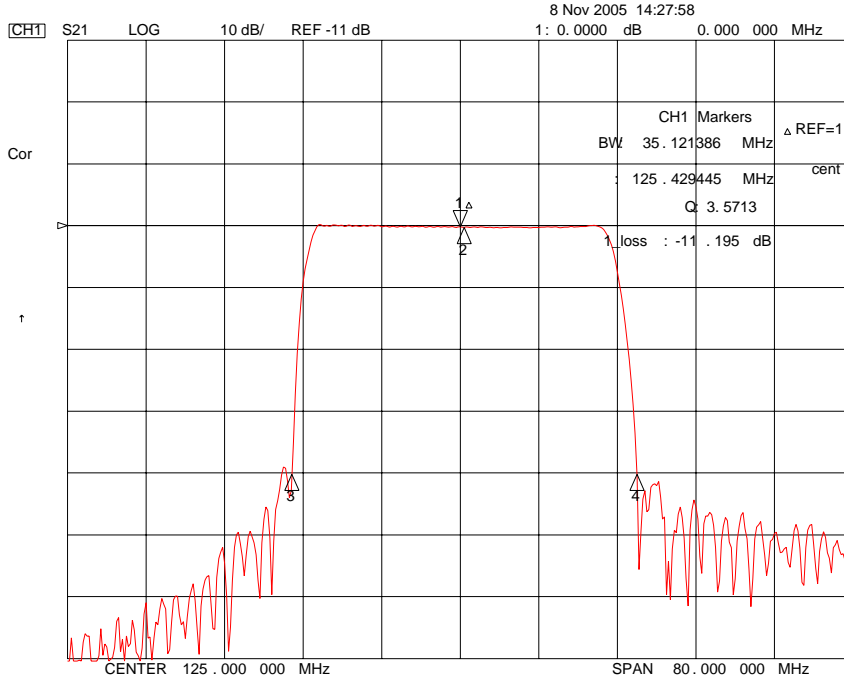
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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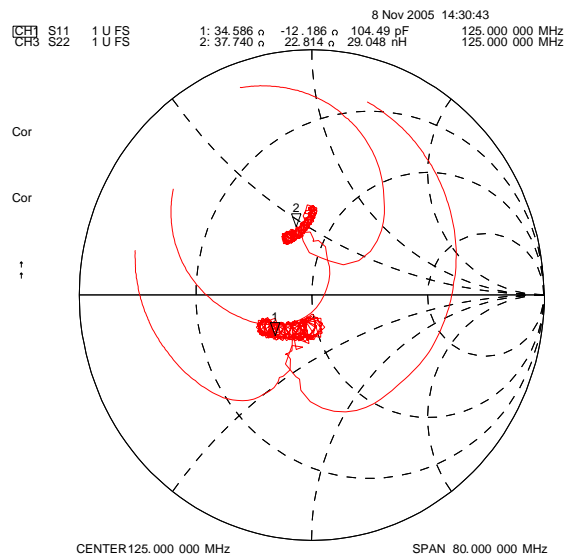
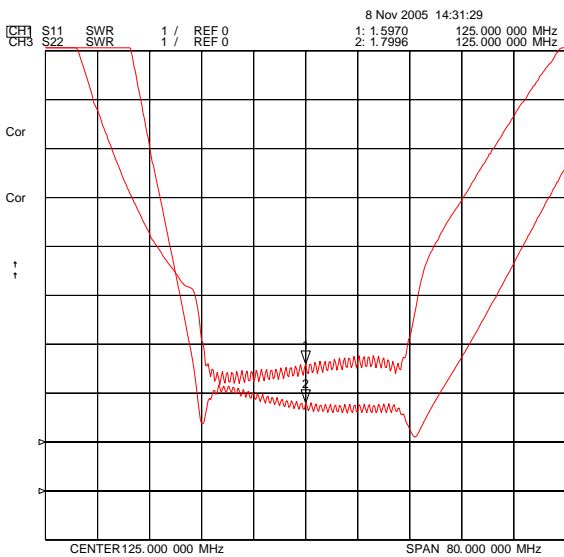
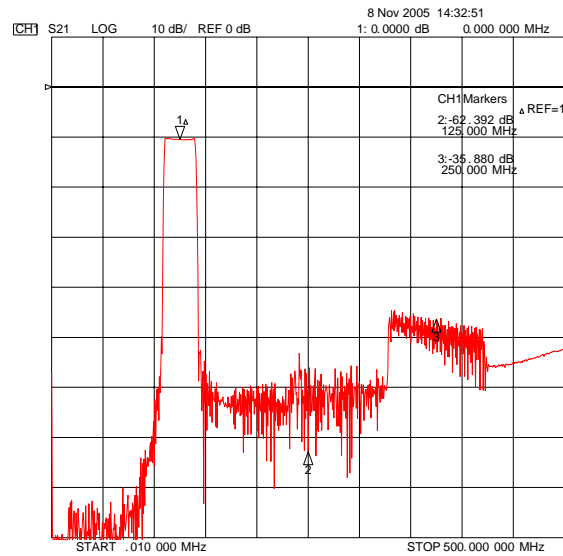
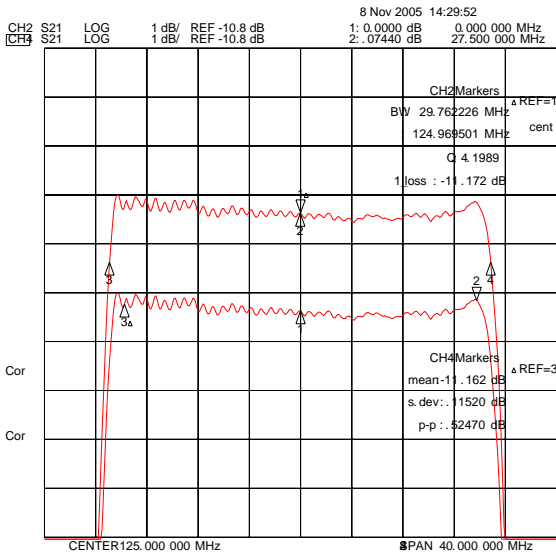


6. Typical Performance (at +25°C)



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