

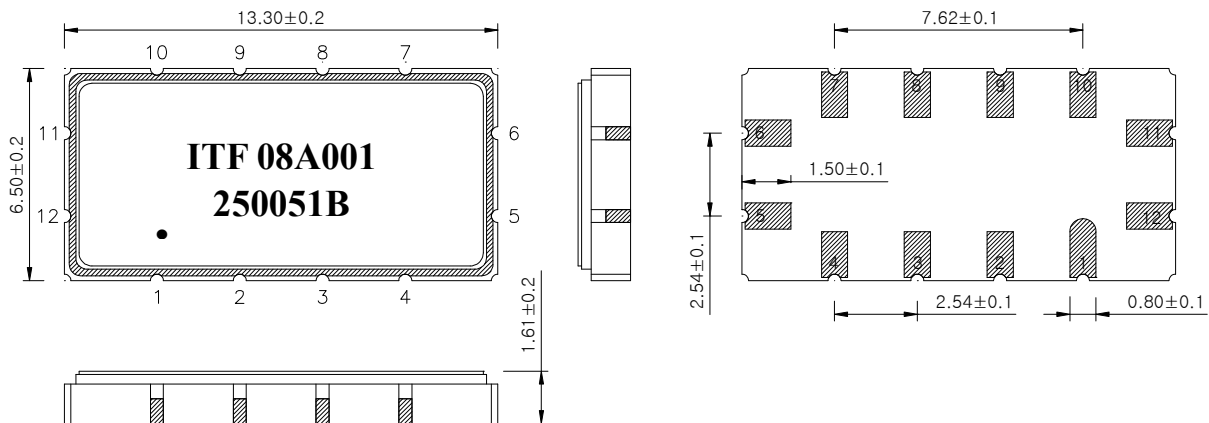
# Bandpass Filter 250051B



## 1. Features

- IF bandpass filter
- Single-ended operation
- Ceramic Surface Mount Device(SMD) Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimension



**Package : S1365**

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub>

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

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250051B	
		Rev. Date	2008-04-23	
		Rev.	NW7020-CS01	1/5

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## 3. Specifications

F<sub>o</sub> = 140.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature range : +25℃		Minimum	Typical	Maximum
Center Frequency (F <sub>c</sub> )	MHz	-	140.0	-
Insertion Loss	dB	-	8.5	11.0
1dB Bandwidth	MHz	-	0.5	-
3dB Bandwidth	MHz	0.55	0.75	-
40dB Bandwidth	MHz	-	1.5	1.7
Amplitude Ripple (F <sub>o</sub> +/- 0.12 MHz)	dB	-	0.35	1.0
Group Delay Variation (F <sub>o</sub> +/- 0.15 MHz)	nsec	-	220	500
Absolute Delay	Usec	-	1.52	-
Relative Attenuation				
110MHz ~ F <sub>o</sub> - 1MHz	dB	40	50	-
F <sub>o</sub> + 1 MHz ~ 170 MHz	dB	35	40	-
Temperature Coefficient of Frequency (TCF)	ppm/℃	-	- 0.03	-

### 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) All attenuation measurements are measured relative to insertion loss

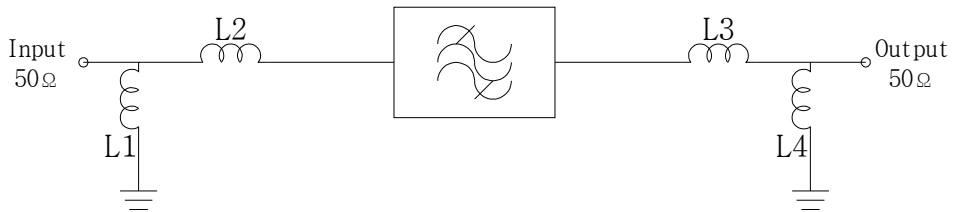
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## 4. Matching Schematic

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



L1 = 15 nH , L2 = 33 nH

L3 = 27 nH , L4 = 18 nH

## 5. Marking Configuration

ITF<sup>1)</sup> 08A001<sup>2)</sup>

250051B<sup>3)</sup>


●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

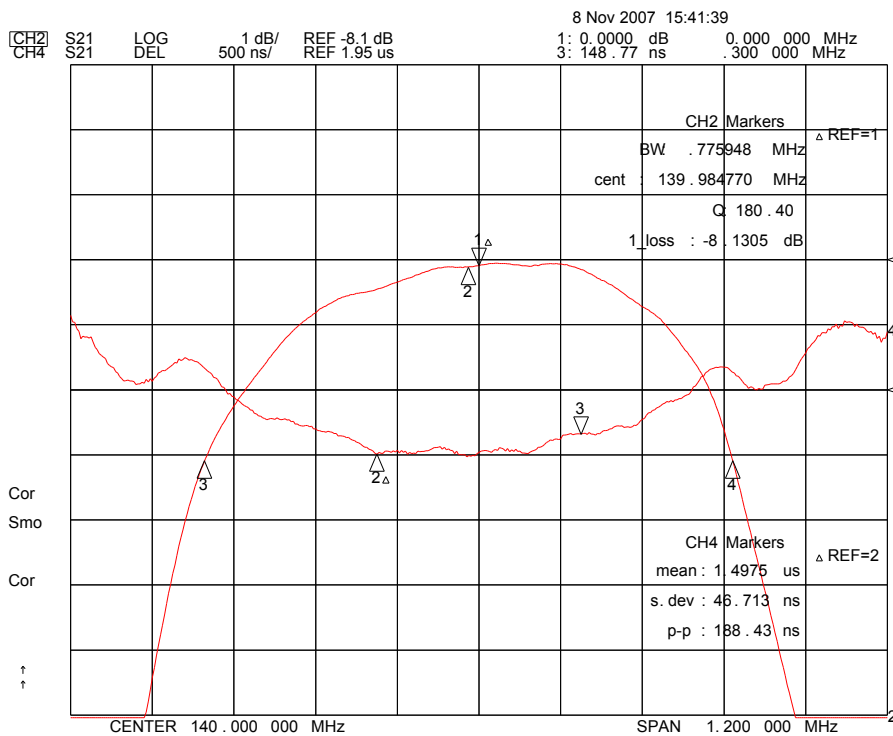
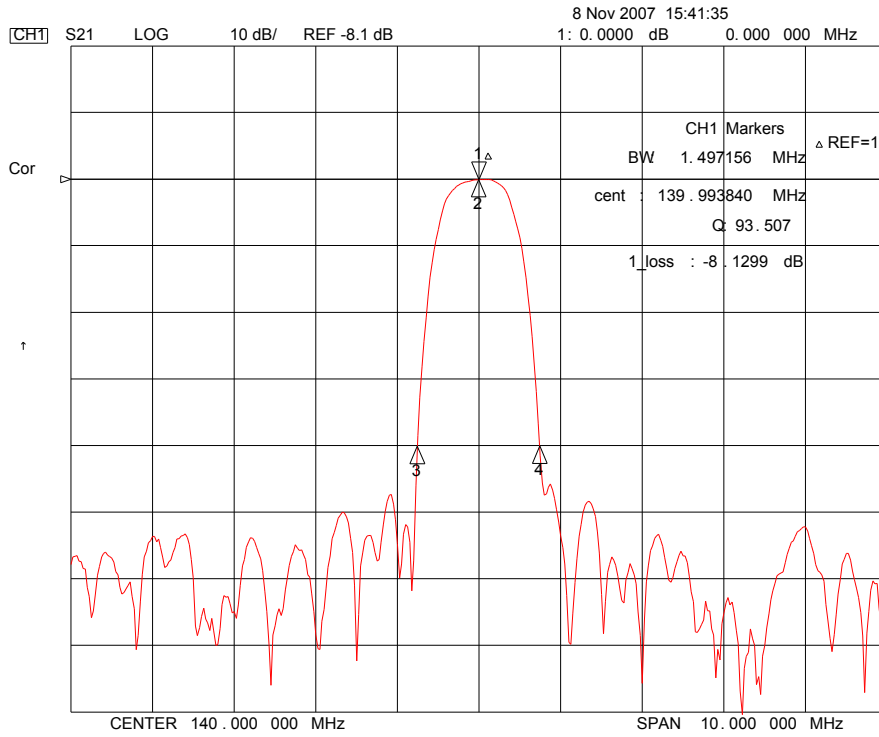
4) Pad Number 1 Index

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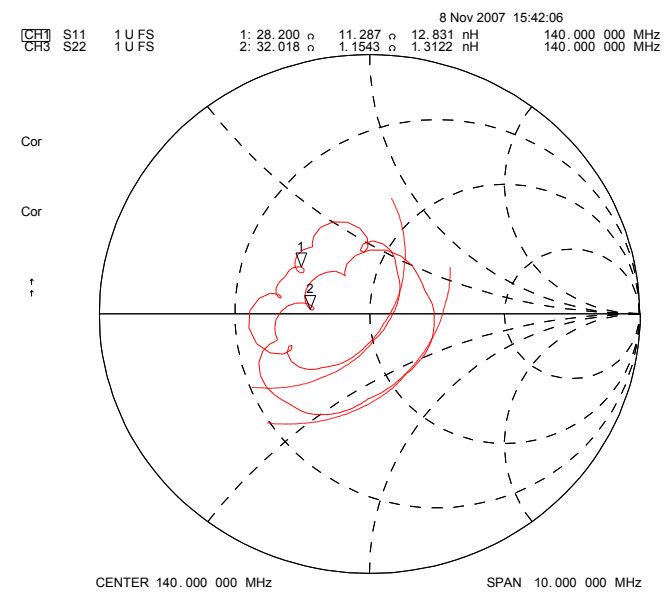
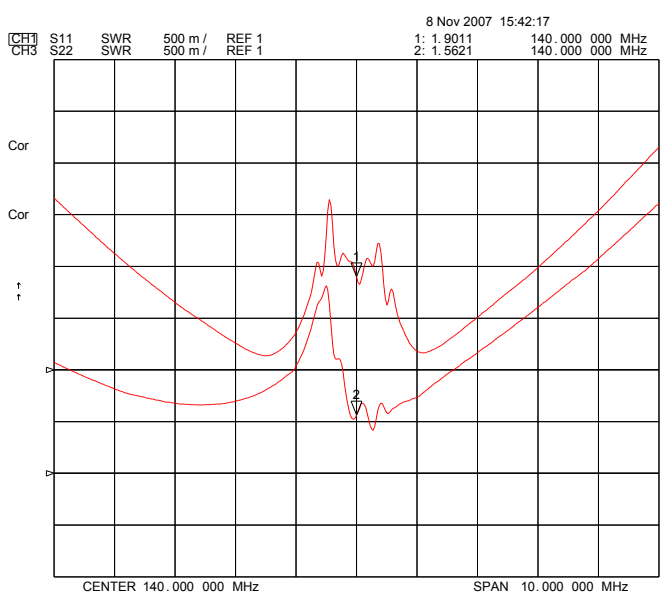
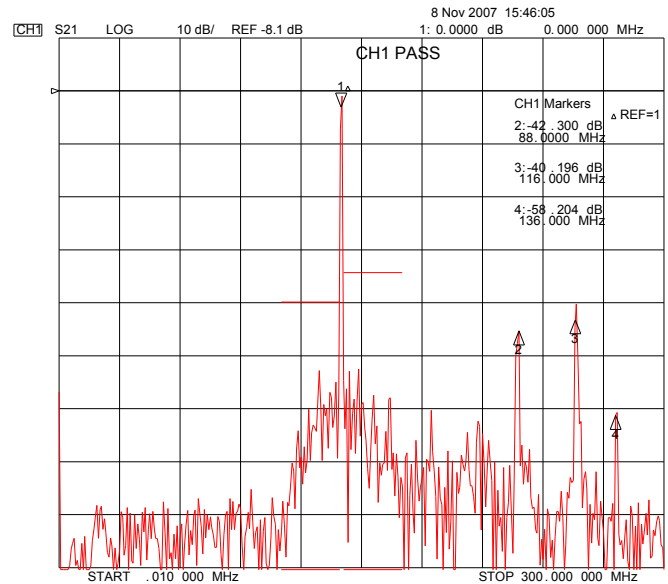
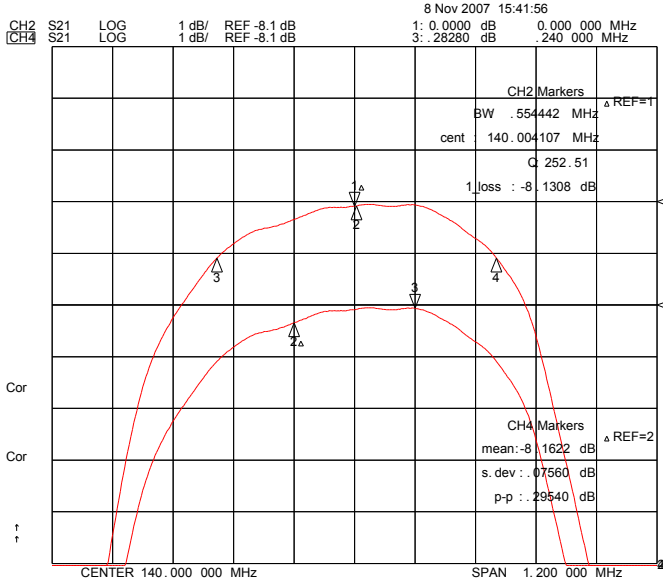


## 6. Typical Performance ( at +25°C )



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