

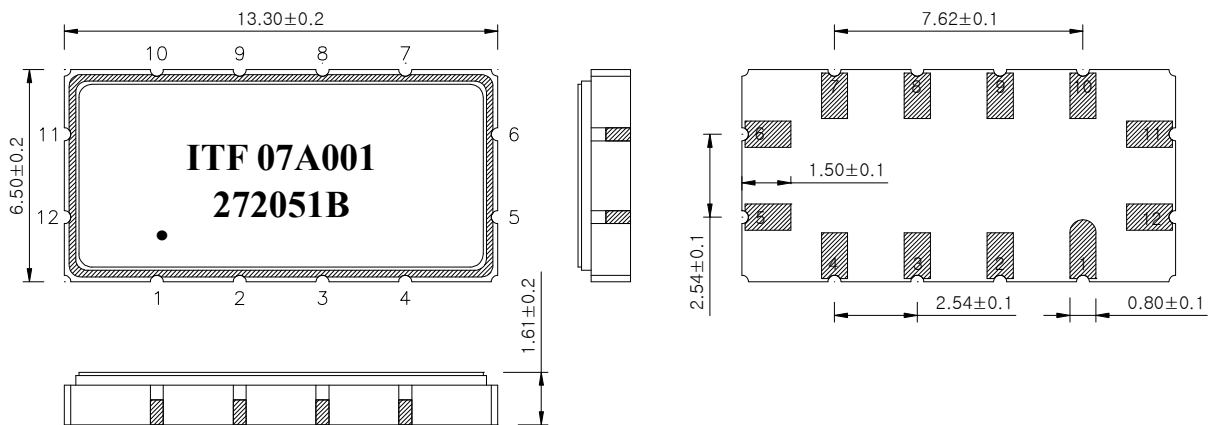
Bandpass Filter 272051B



1. Features

- IF bandpass filter
- Low-Loss 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 : 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.	272051B	
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3. Specifications

F_o = 70.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature : +25°C		Minimum	Typical	Maximum
Center Frequency (F _c)	MHz	-	70	-
Insertion Loss	dB	-	12.5	15.0
1dB Bandwidth	MHz	19.0	19.47	-
3dB Bandwidth	MHz	-	20.0	-
40dB Bandwidth	MHz	-	22.78	23.1
Amplitude Ripple (F _o +/- 9.375 MHz)	dB	-	0.4	1.0
Group Delay Variation (F _o +/- 9.375 MHz)	nsec	-	40	100
Absolute Delay	usec	-	1.22	-
Relative Attenuation				
F _c + 10.8 MHz	dB	15	17	
F _c - 10.8 MHz	dB	15	20	
Temperature Coefficient of Frequency (TCF)	ppm/°C	-	- 86	-

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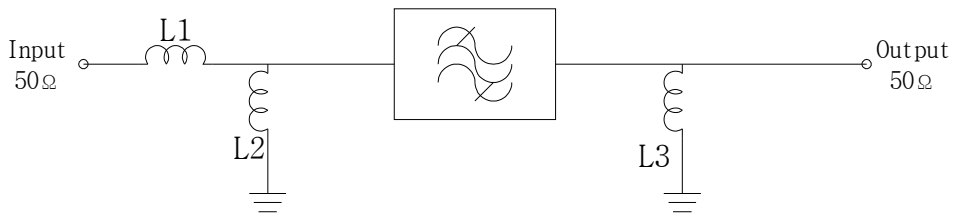


Notes :

- 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)



$$L1 = 10 \text{ nH}$$
$$L2 = L3 = 68 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 07A001²⁾

272051B³⁾

● ⁴⁾

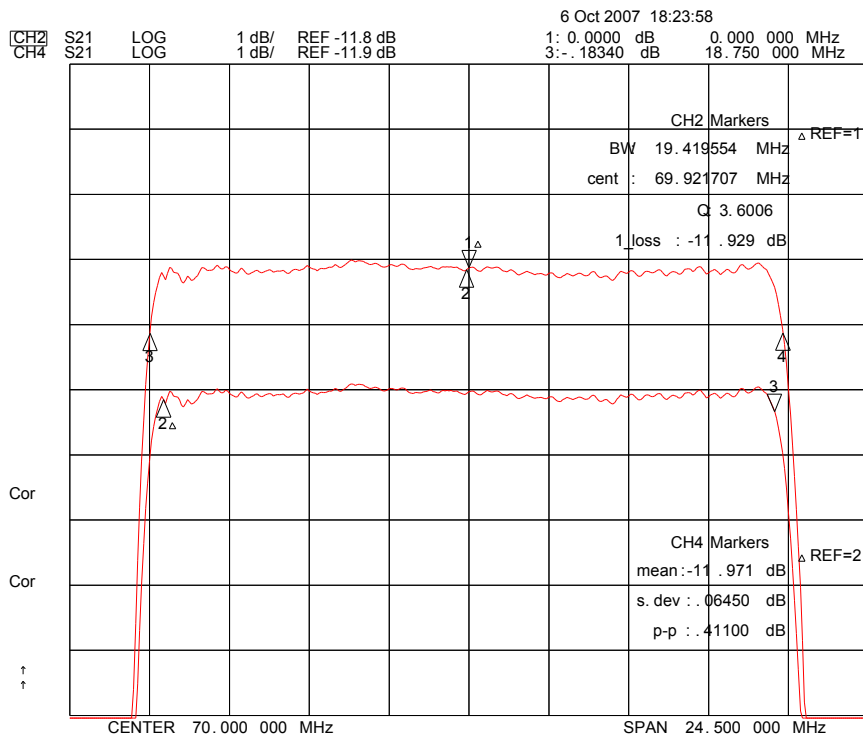
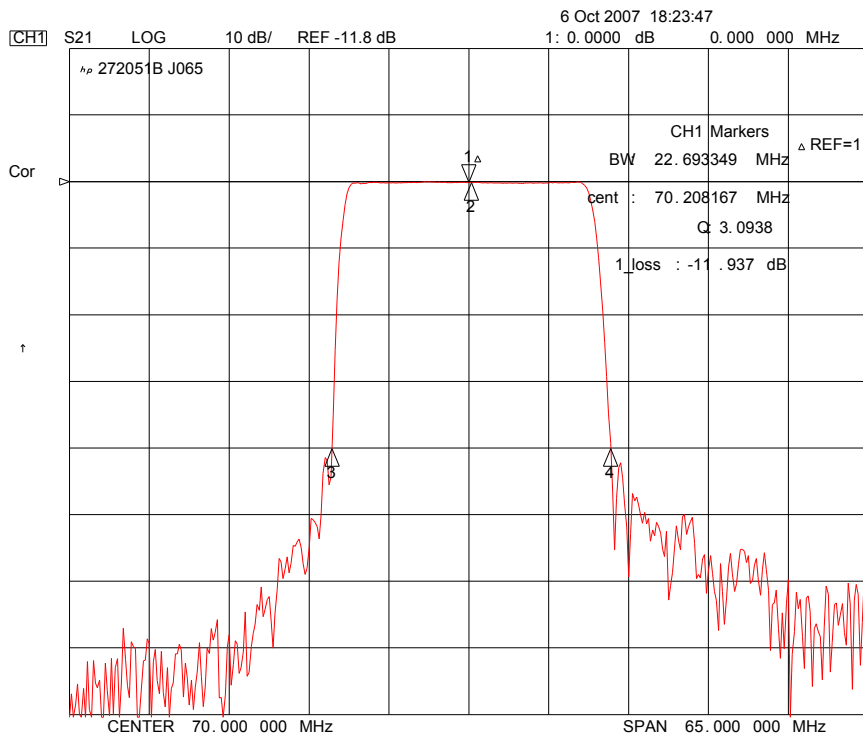
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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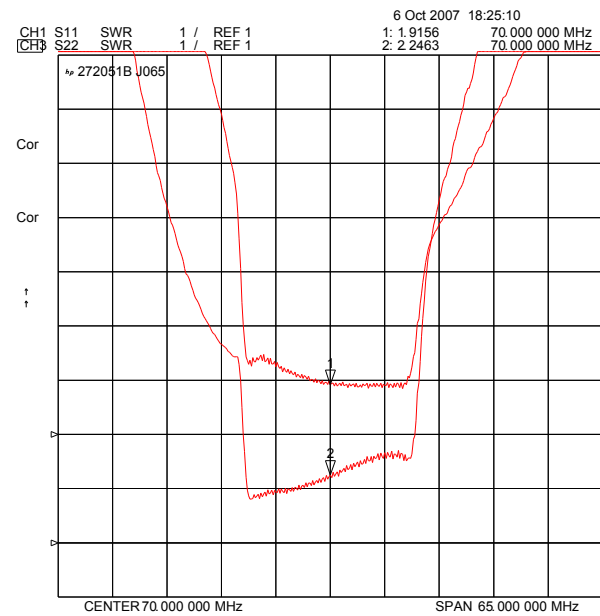
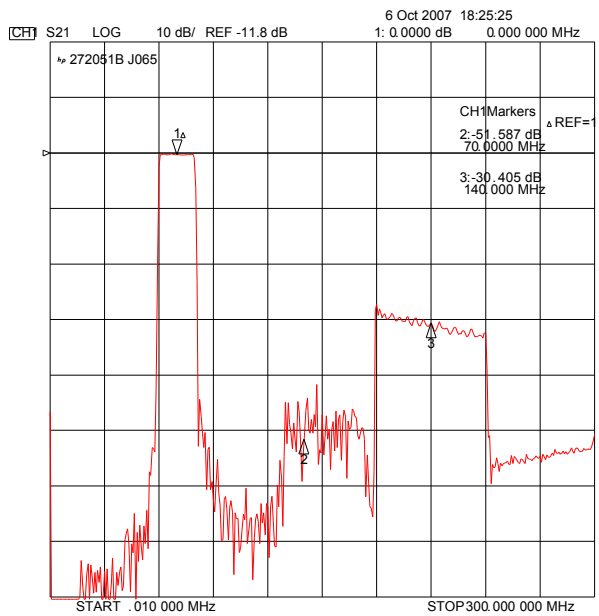
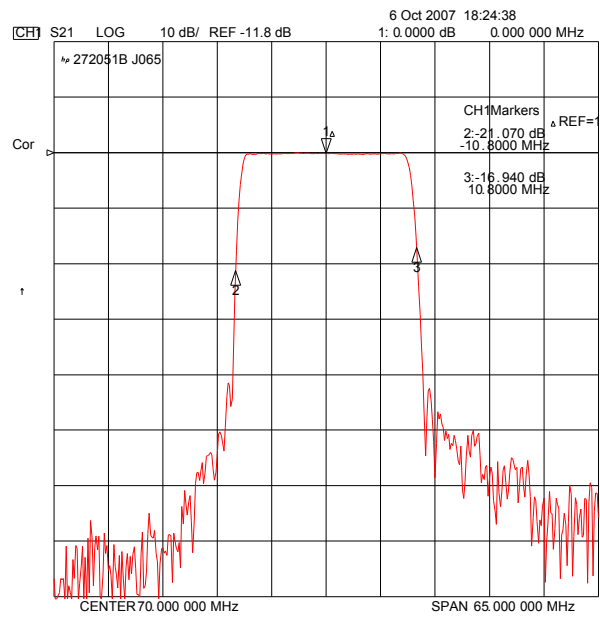
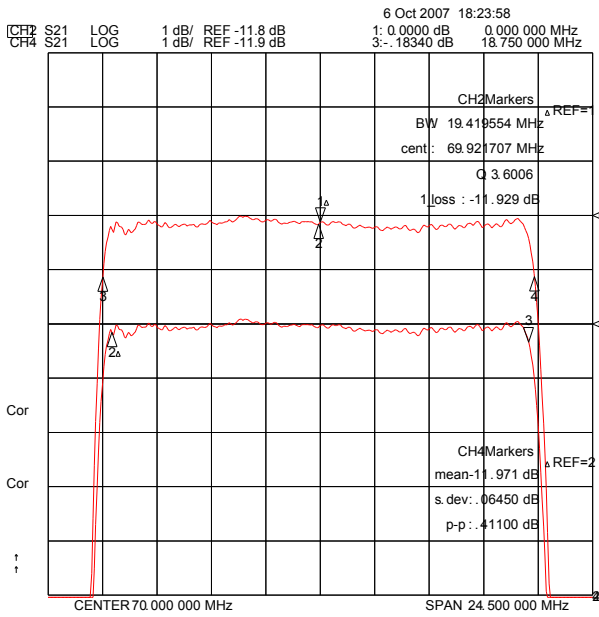


6. Typical Performance (at +25°C)



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