

Bandpass Filter 232251B



1. Specifications

F_o = 75 MHz

Terminating source impedance : 50Ω and matching network


Terminating load impedance : 50Ω and matching network

Operating temperature range : -30℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	75.0	-
Insertion Loss	dB	-	12.5	15
1dB Bandwidth	MHz	21	21.6	-
3dB Bandwidth	MHz	22.0	22.4	-
40dB Bandwidth	MHz	-	25.7	26.2
Amplitude Ripple (F _o +/- 9.75 MHz)	dB	-	0.6	1.0
Group Delay Variation (F _o +/- 9.75 MHz)	nsec	-	30	70
Ultimate Rejection	dB	40	45	-
Absolute Delay	usec	-	1.16	-
Temperature Coefficient of Frequency	ppm/°C	-	-94	-

Room temperature : + 25 ℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	75.0	-
Insertion Loss	dB	-	12.5	14.5
Amplitude Ripple (F _o +/- 10 MHz)	dB	-	0.6	1.0
Group Delay Variation (F _o +/- 10 MHz)	nsec	-	30	70

Notes :

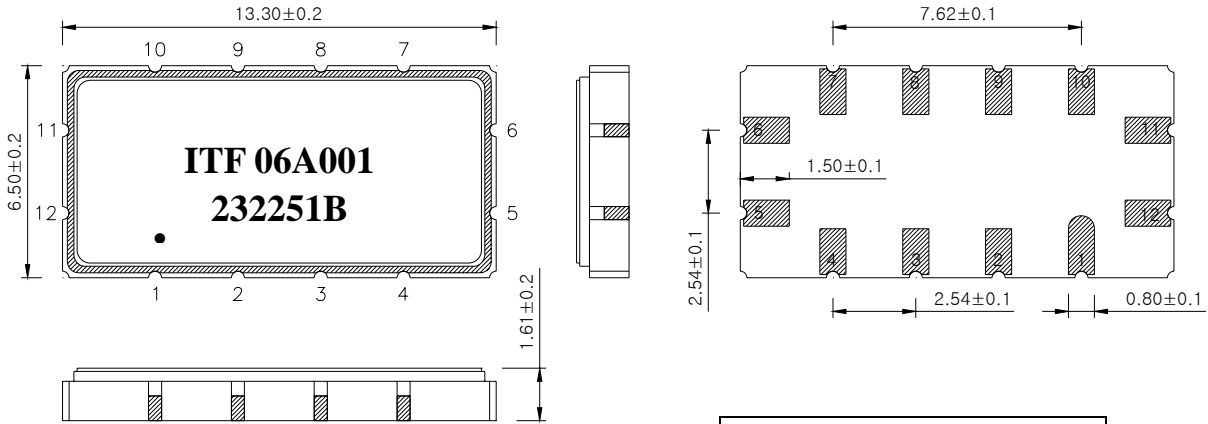
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	232251B	
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		Rev.	NJ6010-CS01	1/4

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2. Package Dimension



Package : S1365

Pin Configuration	
11	Input
5	Output
6, 12	Ground
Other	Case ground

Dimensions shown are nominal in millimeters

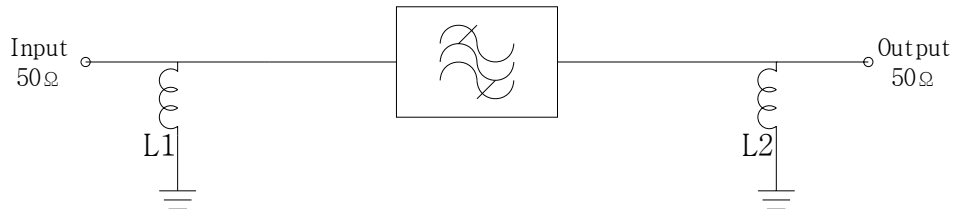
Body : Al₂O₃

Lid : Kovar, Ni Plated

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

3. Matching Schematic

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



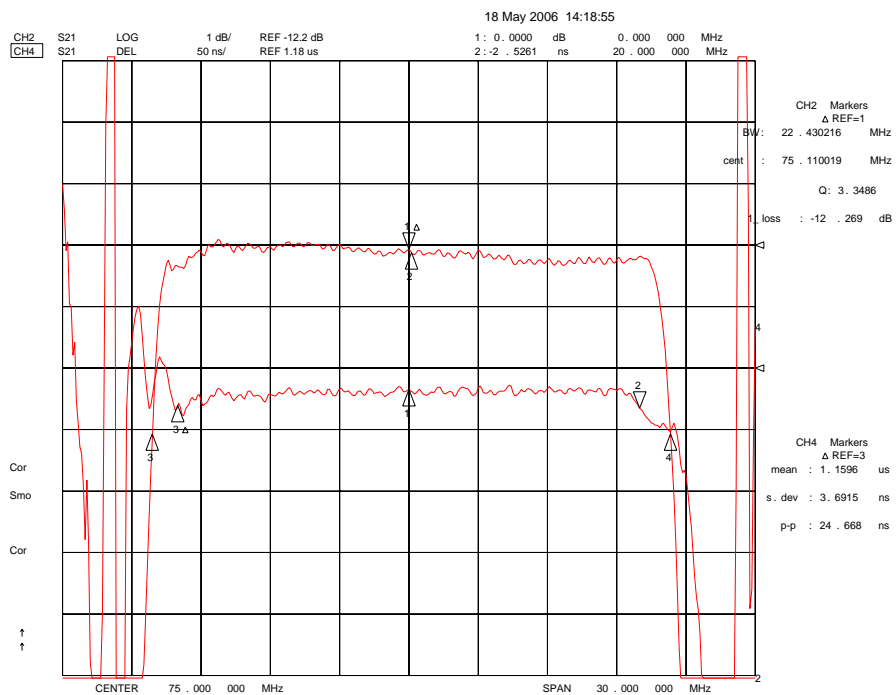
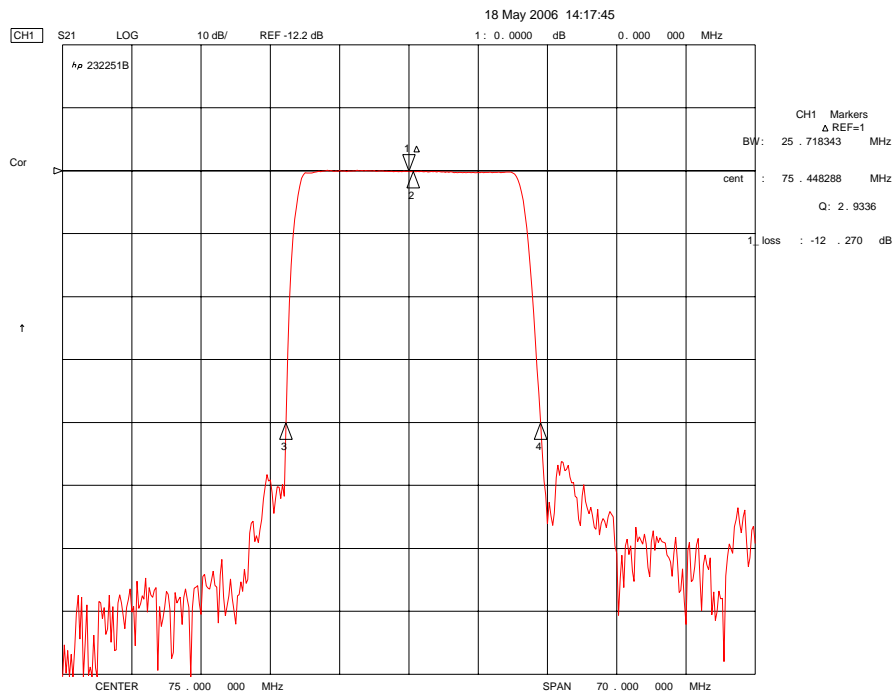
$$L1 = 68\text{nH} \quad , \quad L2 = 68\text{nH}$$

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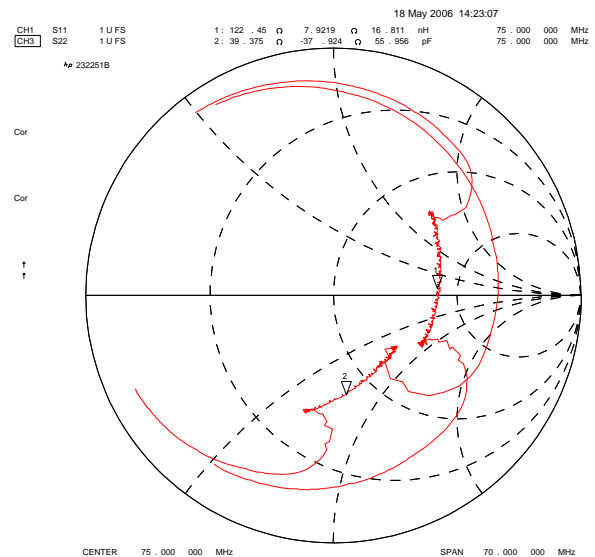
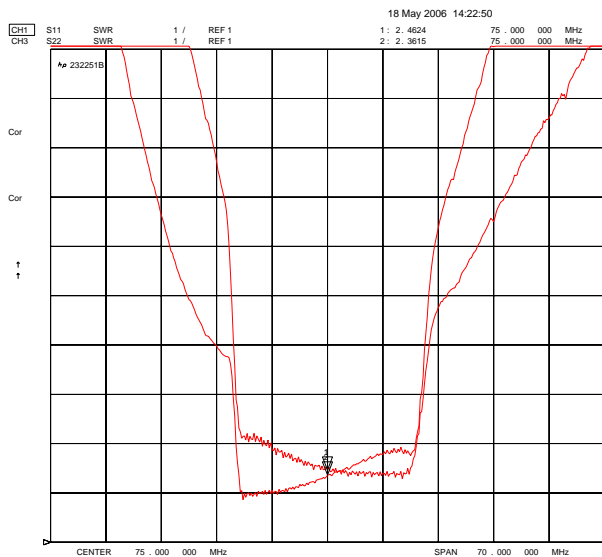
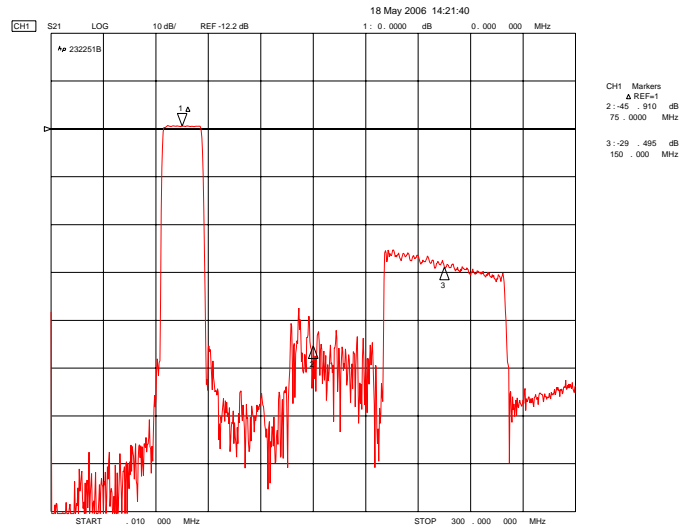
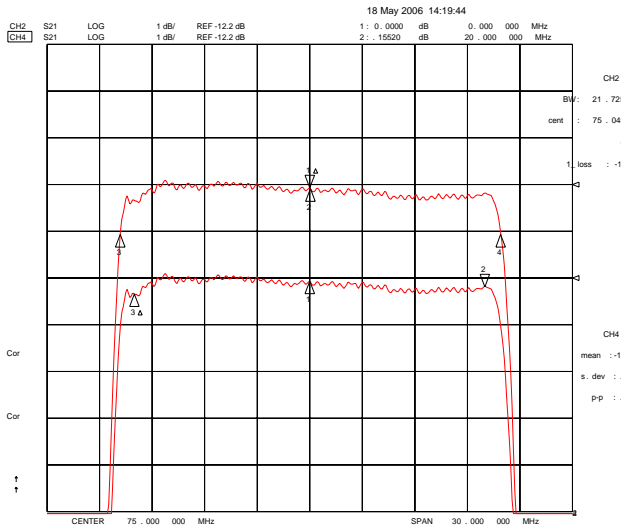


4. Typical Performance (at +25°C)



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