

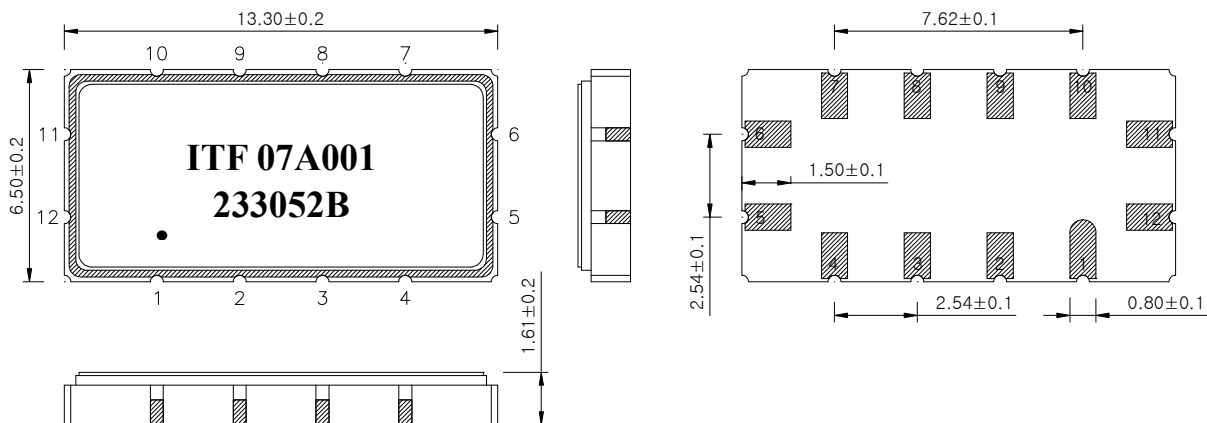
Bandpass Filter 233052B



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.	233052B	
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3. Specifications

Fo = 75.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature range : +25℃		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	75.0	-
Insertion Loss	dB	-	17.0	20.0
1dB Bandwidth	MHz	28.0	29.2	-
3dB Bandwidth	MHz	-	30.47	-
40dB Bandwidth	MHz	-	35.6	36.0
Amplitude Ripple (Fo +/- 13.85 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 13.85 MHz)	nsec	-	20	50
Absolute Delay	usec	-	0.84	-
Relative Attenuation				
10.0 ~ 57.0 MHz	dB	40	45	
93.0 ~ 99.5 MHz	dB	18	25	
99.5 ~ 175.0 MHz	dB	40	45	
175.0 ~ 225.0 MHz	dB	37	40	
225.0 ~ 575.0 MHz	dB	45	50	
Temperature Coefficient of Frequency	ppm/℃	-	- 86	-

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

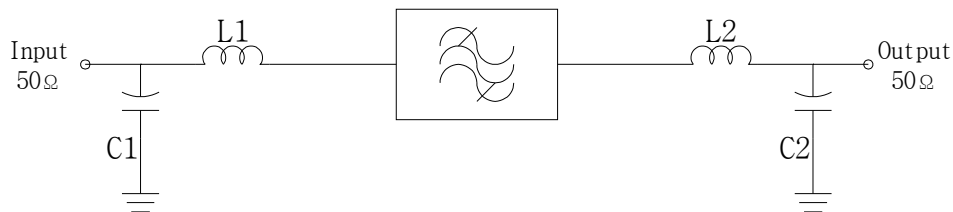
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4. Matching Schematic

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



$$\begin{aligned} L1 &= 180 \text{ nH}, & L2 &= 100 \text{ nH} \\ C1 &= 22 \text{ pF}, & C2 &= 18 \text{ pF} \end{aligned}$$

5. Marking Configuration

ITF¹⁾ 07A001²⁾

233052B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

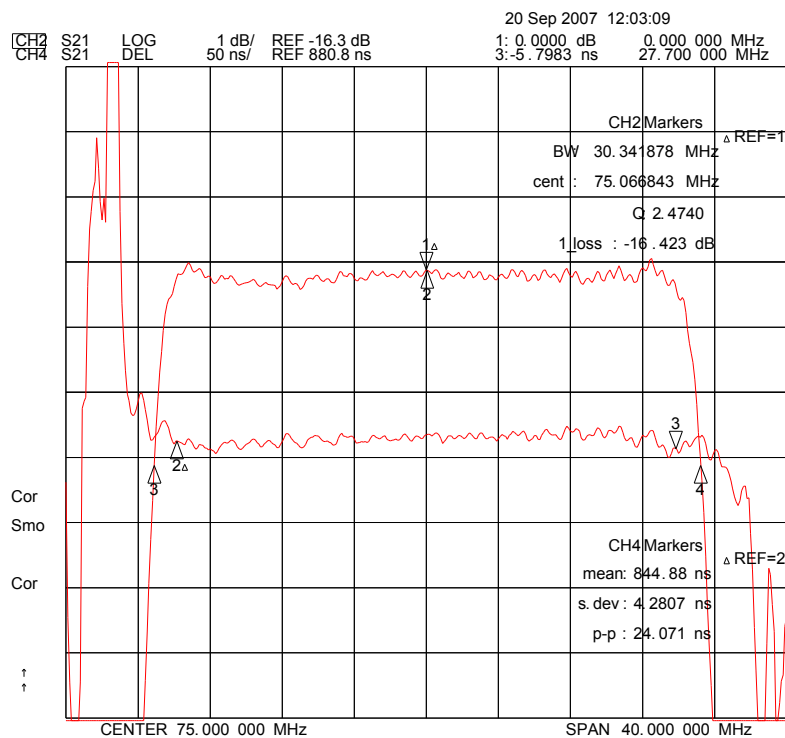
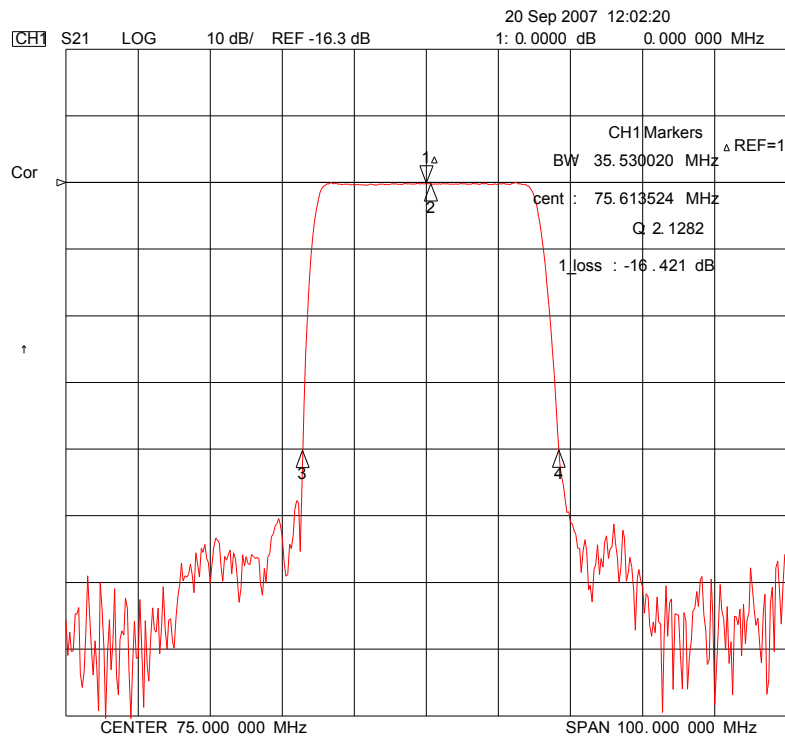
4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



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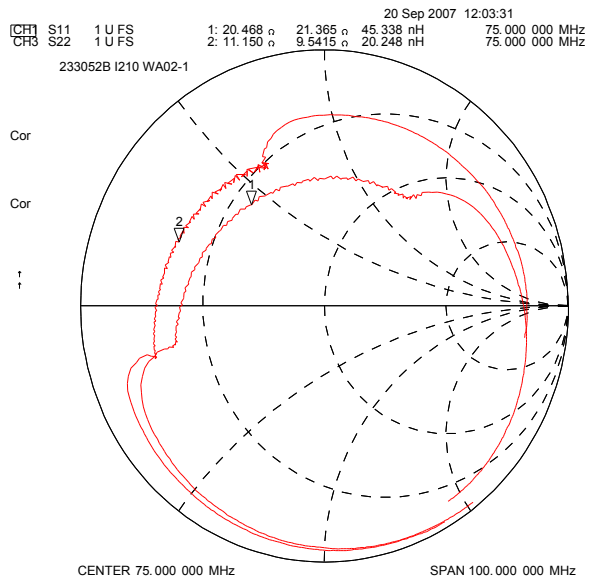
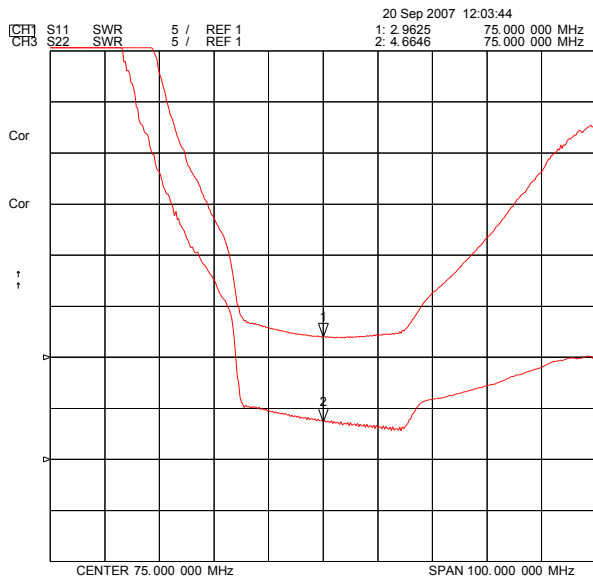
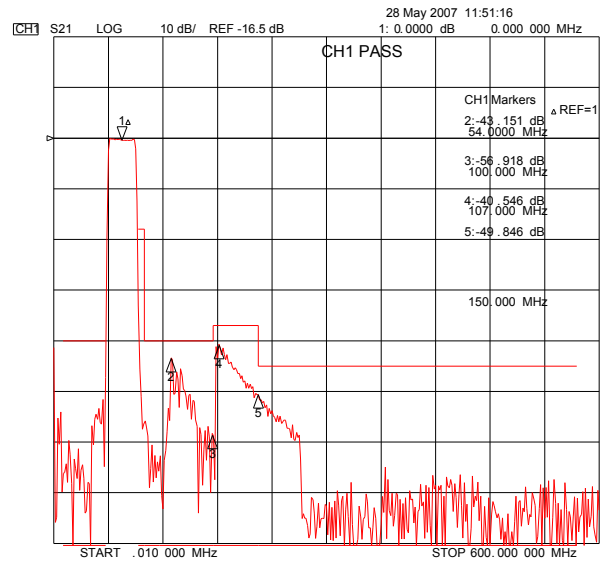
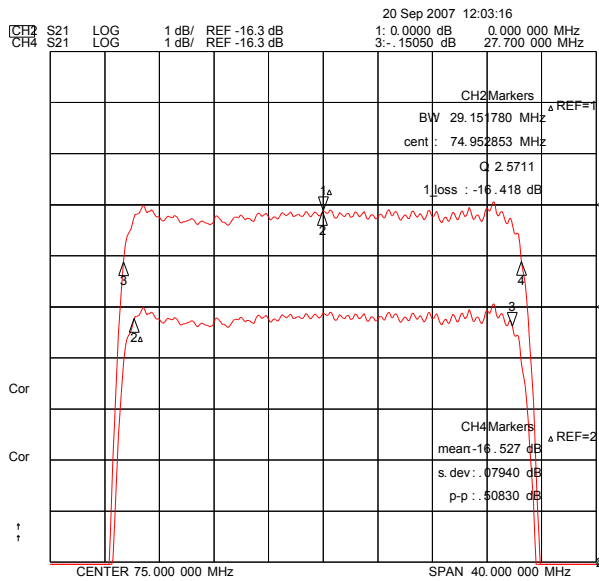
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