

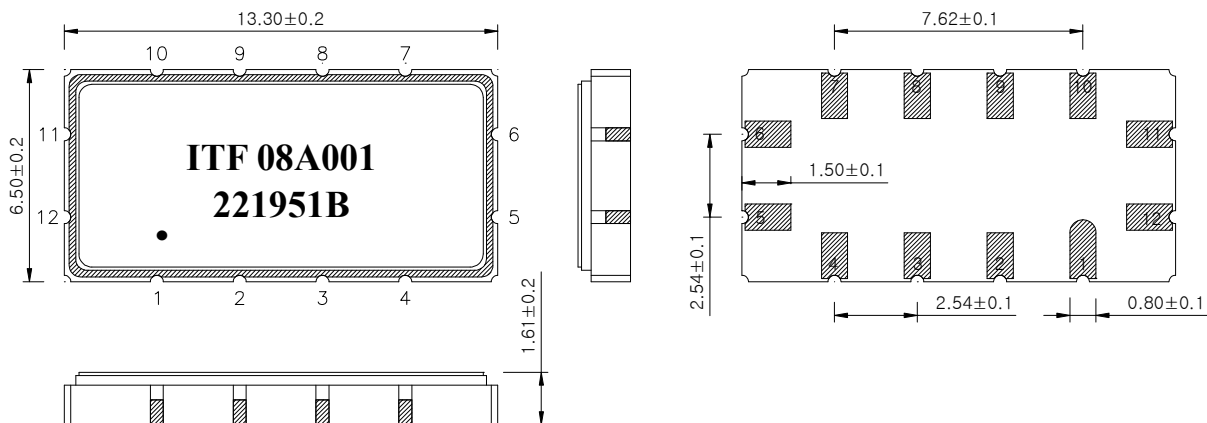
Bandpass Filter 221951B



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

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3. Specifications

Fo = 62.5 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	62.5	-
Insertion Loss	dB	-	14.5	17.5
1dB Bandwidth	MHz	18.8	19.3	-
3dB Bandwidth	MHz	-	19.87	-
15dB Bandwidth	MHz	-	21.26	21.4
40dB Bandwidth	MHz	-	22.6	23.5
Amplitude Ripple (Fo +/- 9.12 MHz)	dB	-	0.4	0.9
Group Delay Variation (Fo +/- 9.12 MHz)	nsec	-	50	100
Absolute Delay	usec	-	1.25	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency (TCF)	ppm/℃	-	- 86	-

Room temperature : + 25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	14.5	17.0
Amplitude Ripple (Fo +/- 9.32 MHz)	dB	-	0.4	0.9
Group Delay Variation (Fo +/- 9.32 MHz)	nsec	-	50	100
Relative Attenuation Fo +/- 10.2 MHz	dB	2	5	-

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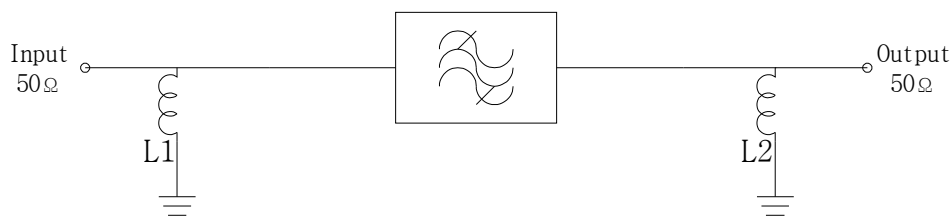


Notes :

- 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)



$$L1 = 150 \text{ nH}, \quad L2 = 82 \text{ nH}$$

5. Marking Configuration

ITF¹⁾08A001²⁾

221951B³⁾

●⁴⁾

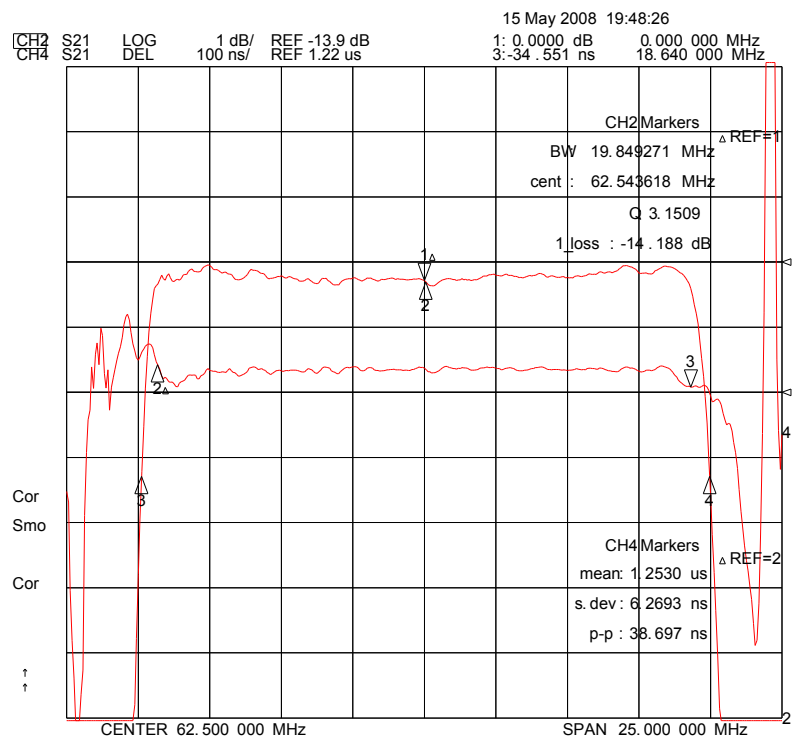
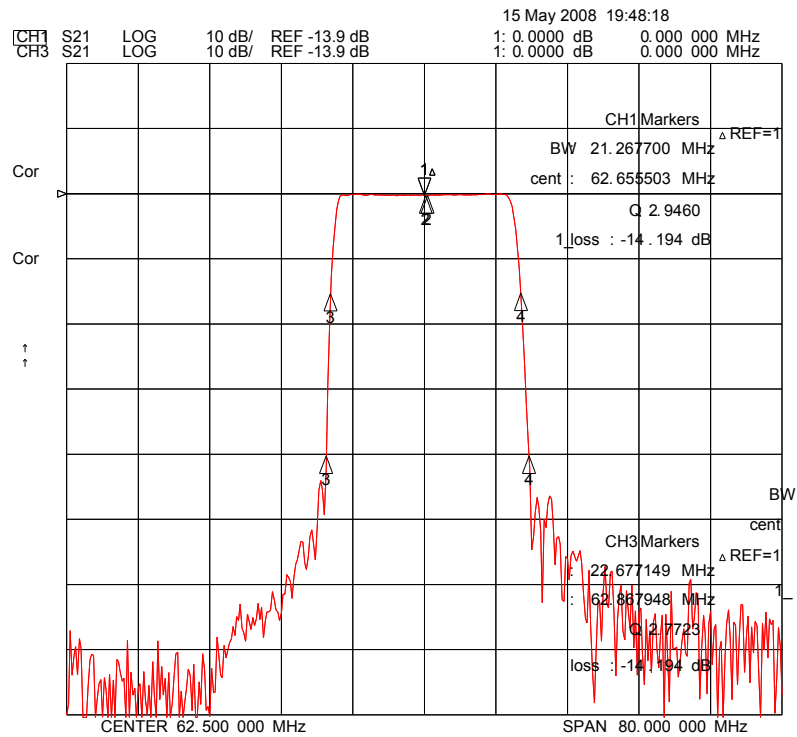
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



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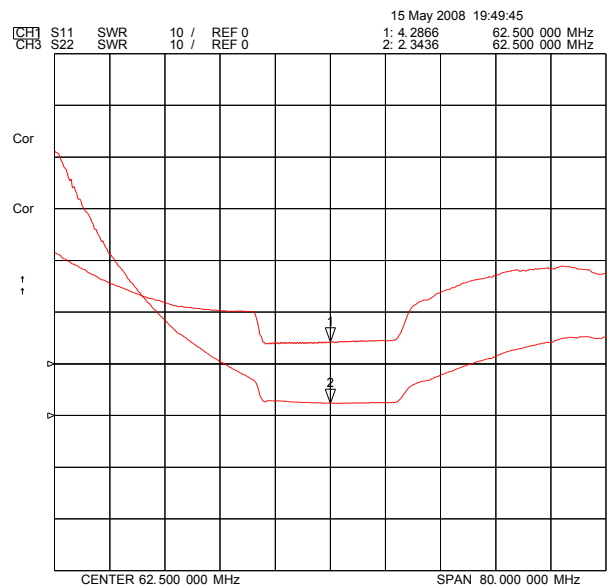
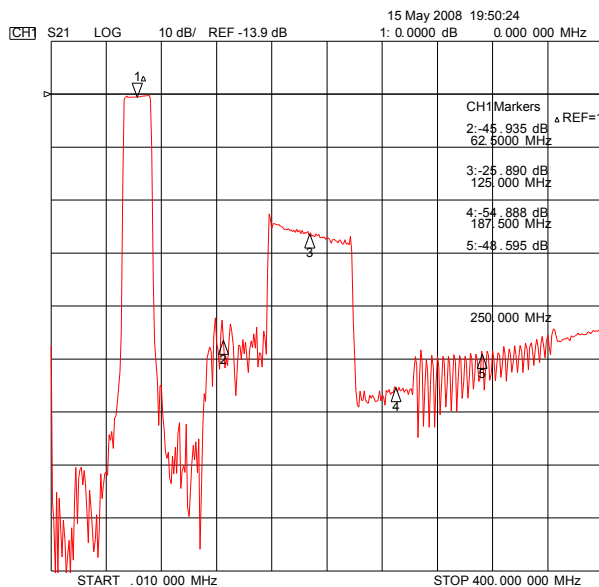
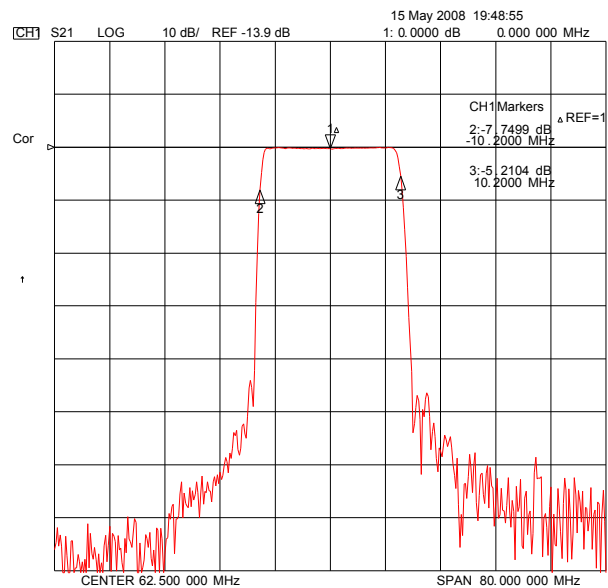
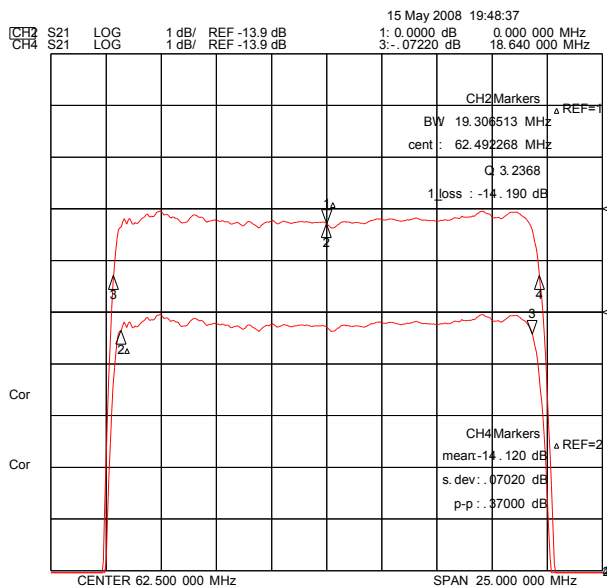
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