

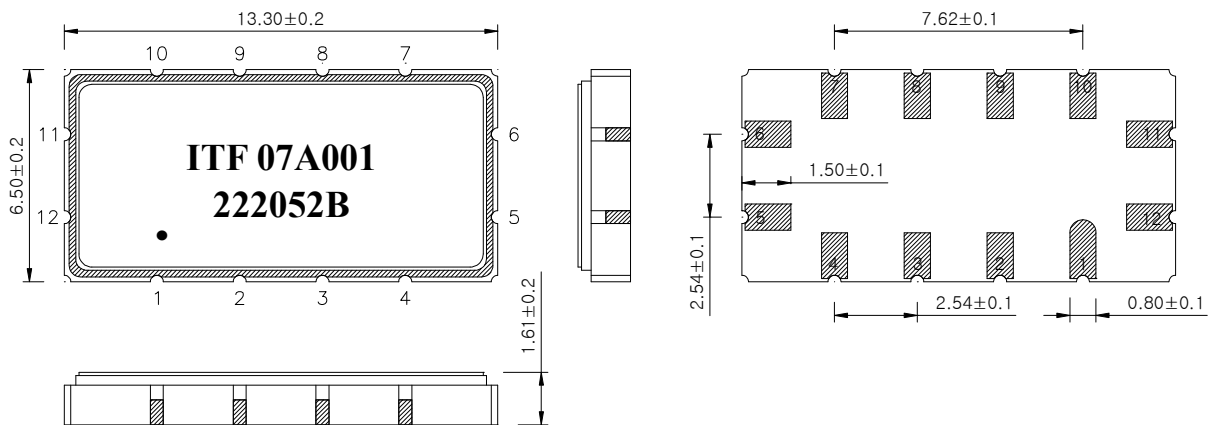
# Bandpass Filter 222052B



## 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 : 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

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## 3. Specifications

Fo = 62.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature : +25°C		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	62.5	-
Insertion Loss	dB	-	16.5	18.0
1dB Bandwidth	MHz	-	19.6	-
3dB Bandwidth	MHz	20.3	20.35	-
40dB Bandwidth	MHz	-	23.4	24.0
Amplitude Ripple (Fo +/- 9.32 MHz)	dB	-	0.3	0.6
Group Delay Variation (Fo +/- 9.32 MHz)	nsec	-	20	60
Absolute Delay	usec	-	1.17	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency (TCF)	ppm/°C	-	- 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

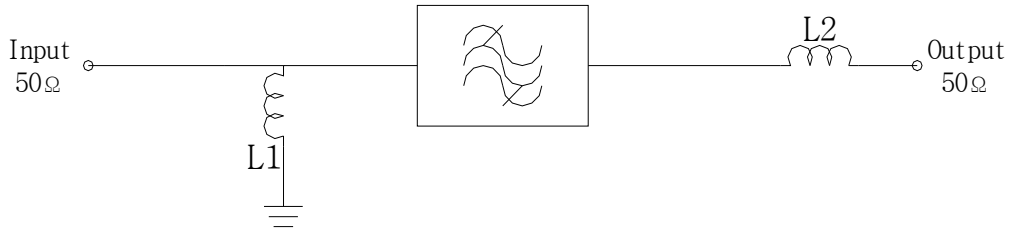
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## 4. Matching Schematic

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



$$L1 = L2 = 100 \text{ nH}$$

## 5. Marking Configuration

ITF<sup>1)</sup> 07A001<sup>2)</sup>

222052B<sup>3)</sup>


●<sup>4)</sup>

1) Manufacturer name

2) Lot Number

3) Part Number

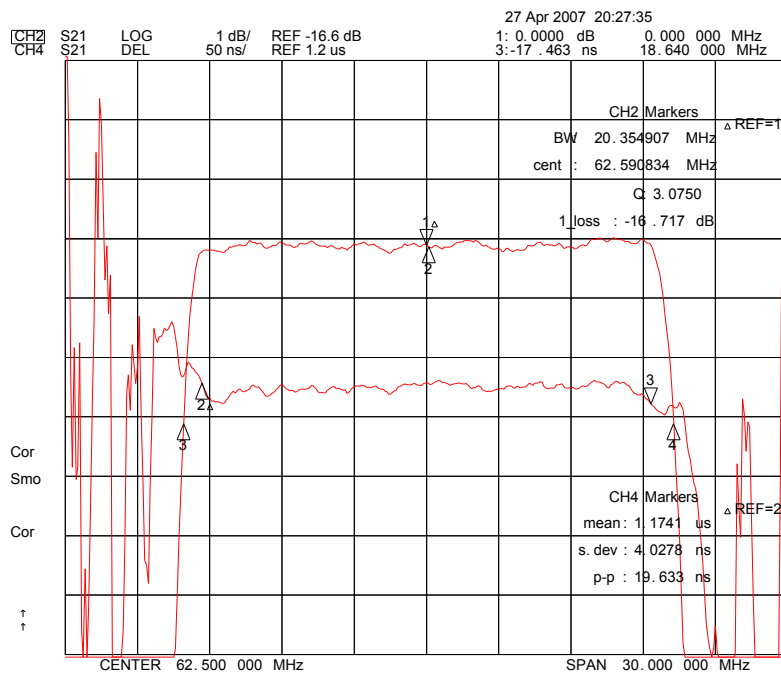
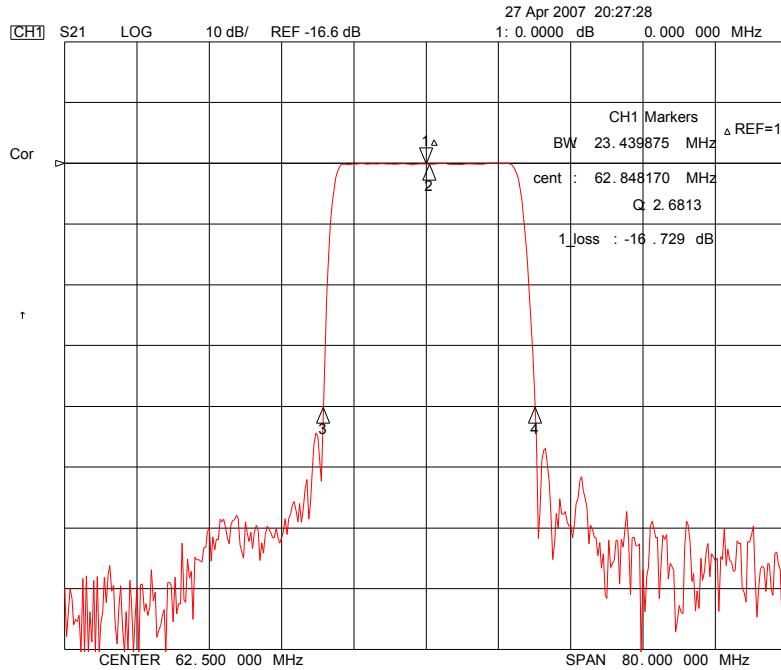
4) Pad Number 1 Index

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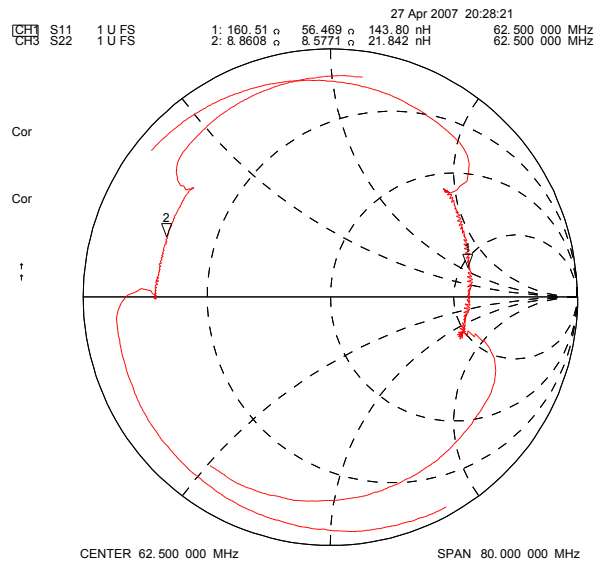
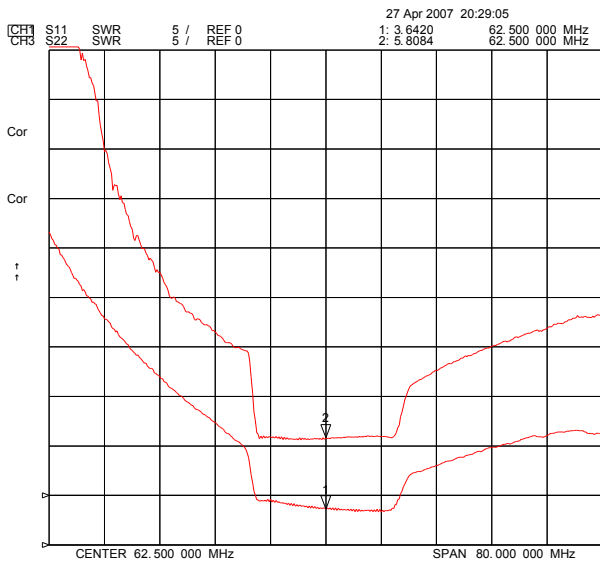
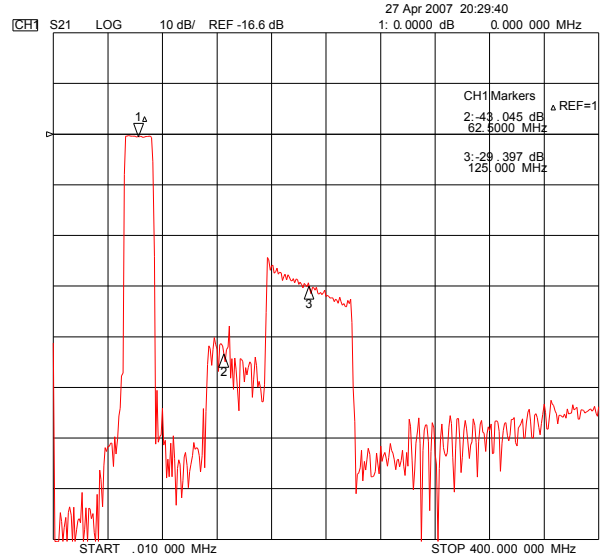
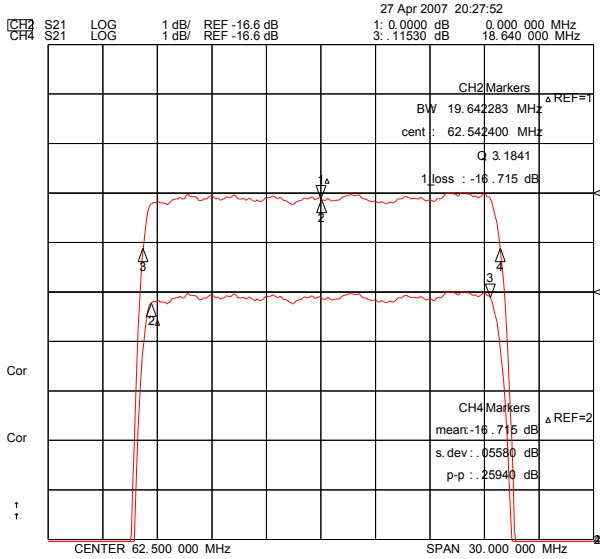


## 6. Typical Performance ( at +25°C )



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