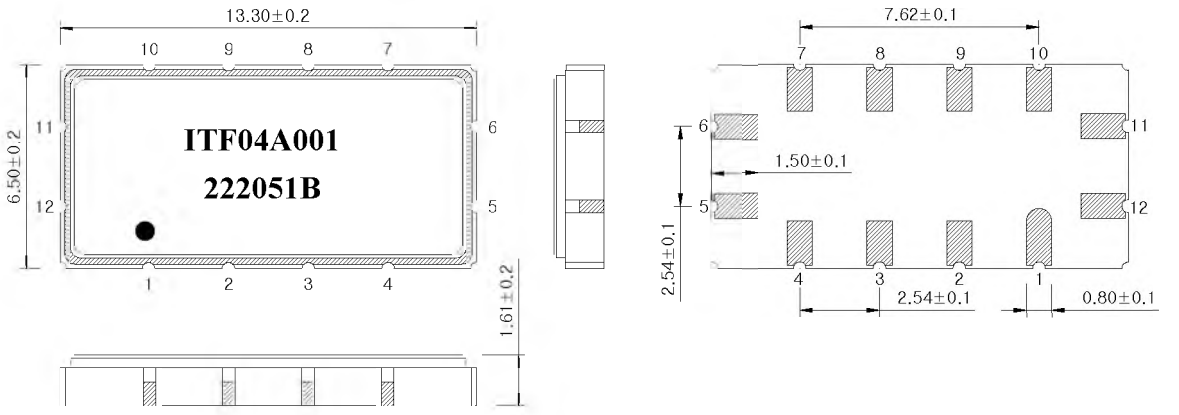
SAW Bandpass Filter 222051B

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 Dimensions



Package : S1365

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

Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic
Lid : Kovar, Ni Plated
Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

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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	MHz	62.15	62.5	62.85
Insertion Loss	dB	-	14.8	16.5
1dB Bandwidth	MHz	19.7	19.9	-
3dB Bandwidth	MHz	20.3	20.6	-
40dB Bandwidth	MHz	-	23.7	24.2
Amplitude Ripple (Fo +/- 9.3 MHz)	dB	-	0.5	1.0
Group Delay Variation (Fo +/- 9.3 MHz)	nsec	-	50	120
Absolute Delay	usec	-	1.24	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

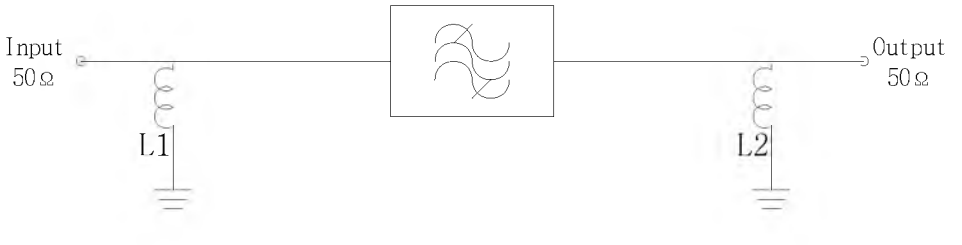
Room Temperature : +25℃		Minimum	Typical	Maximum
Amplitude Ripple (Fo +/- 9.5 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 9.5 MHz)	nsec	-	50	120

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 nH, L2 = 82 nH

5. Marking Configuration

ITF[1)] 04A001[2)]

222051B[3)]

● [4)]

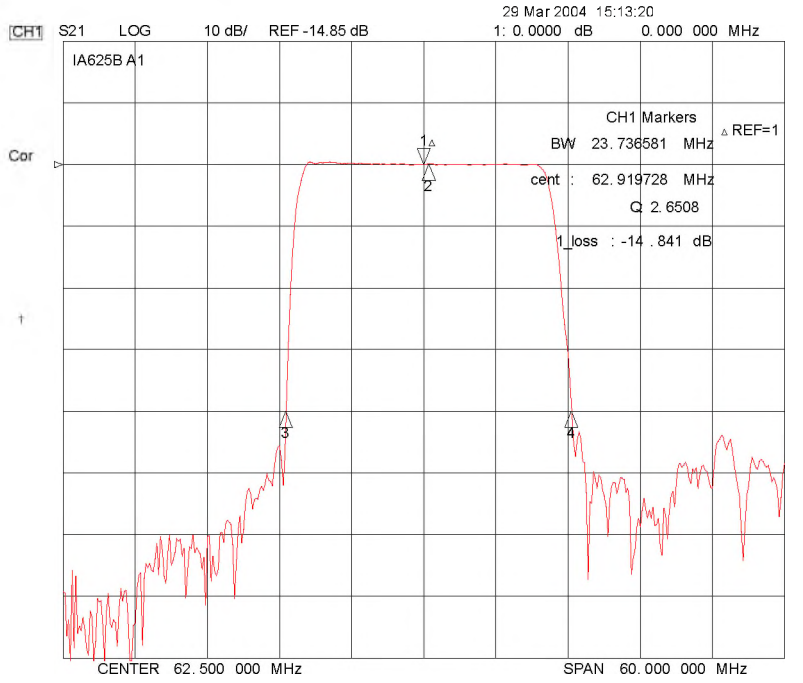
1) Manufacturer name

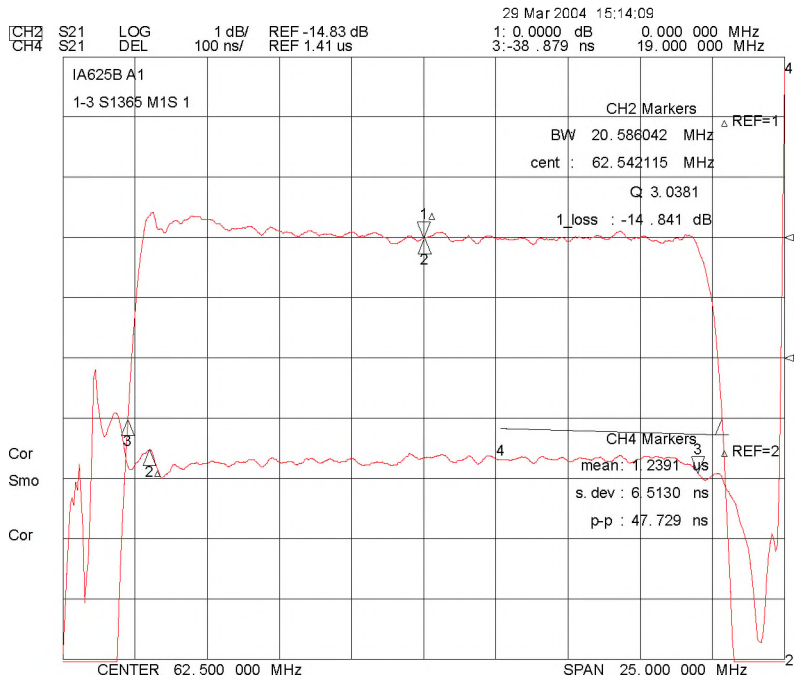
2) Lot Number

3) Part Number

4) Pad Number 1 Index

6. Typical Performance (at +25℃)





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