

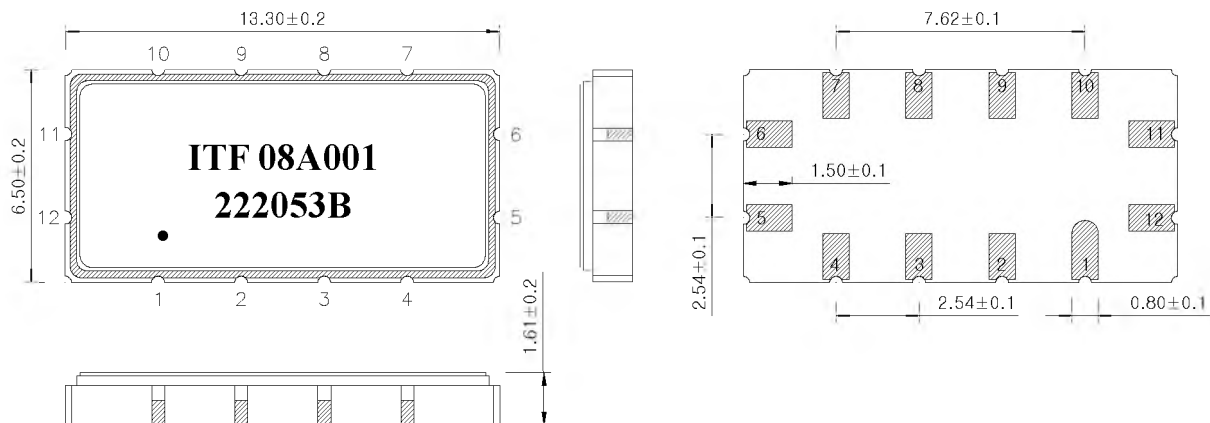
Bandpass Filter 222053B



1. Features

- IF bandpass filter
- Low-Loss Filter
- Single-ended operation
- Ceramic Surface Mount Device(SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- 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 = 60.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : 0℃ ~ +70℃		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	60.0	-
Insertion Loss	dB	-	15.0	18.0
1dB Bandwidth	MHz	19.5	19.84	-
3dB Bandwidth	MHz	-	20.53	-
10dB Bandwidth	MHz	-	21.58	21.9
30dB Bandwidth	MHz	-	23.03	23.4
40dB Bandwidth	MHz	-	23.54	23.8
45dB Bandwidth	MHz	-	23.83	-
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.35	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	30	60
Absolute Delay	usec	-	1.04	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency (TCF)	ppm/℃	-	- 86	-

Room temperature : + 25 ℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	15.0	17.5
Amplitude Ripple (Fo +/- 9.42 MHz)	dB	-	0.35	1.0
Group Delay Variation (Fo +/- 9.42 MHz)	nsec	-	30	60

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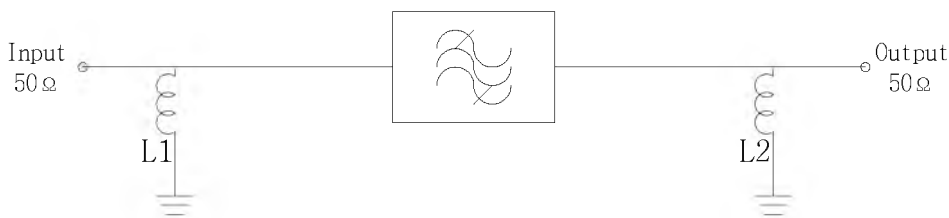


Notes :

- 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)



$$L1 = L2 = 120 \text{ nH}$$

5. Marking Configuration

ITF¹⁾08A001²⁾

222053B³⁾

●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)

