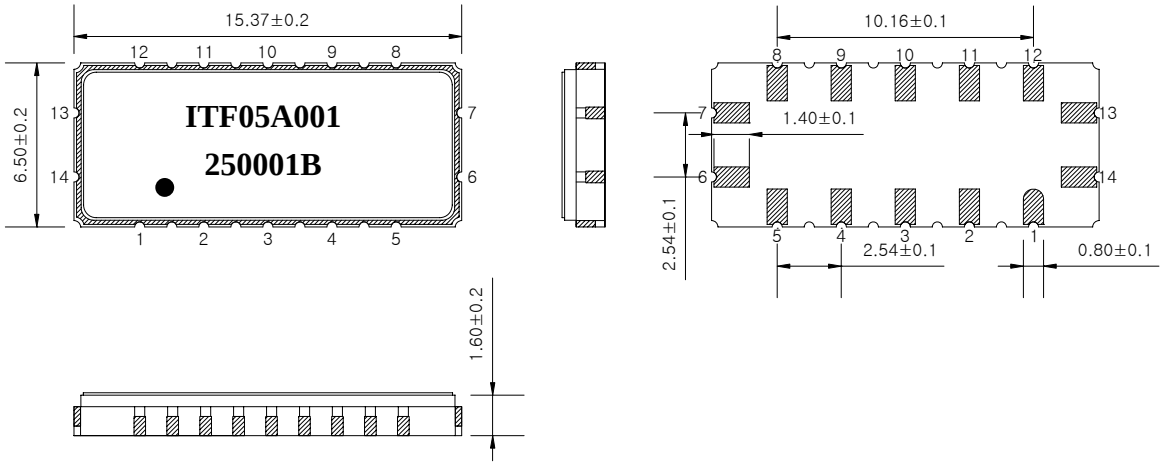
SAW Bandpass Filter 250001B

1. Features

- IF Bandpass Filter
- High-Attenuation
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S1565

Pad Configuration	
13	Input
6	Output
7, 14	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

3. Specifications

Fo = 175.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

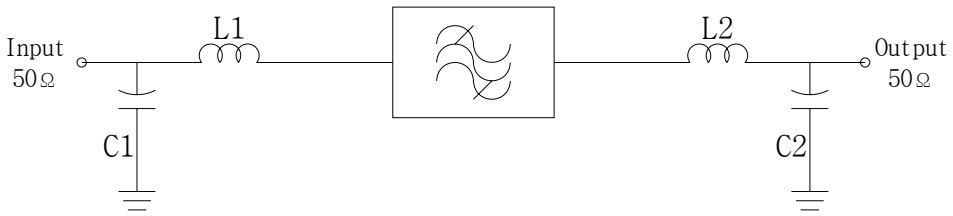
		Minimum	Typical	Maximum
Center Frequency	MHz	174.9	175.0	175.1
Insertion Loss	dB	-	9.0	12.0
1dB Bandwidth	MHz	0.2	0.4	-
3dB Bandwidth	MHz	0.4	0.57	-
25dB Bandwidth	MHz		1.3	1.5
40dB Bandwidth	MHz	-	1.56	1.6
Amplitude Ripple (Fo +/- 0.09 MHz)	dB	-	0.2	1.0
Group Delay Variation (Fo +/- 0.09 MHz)	nsec	-	200.0	250.0
Absolute Delay	usec	-	1.8	-
Relative Attenuation				-
Fc +/- 0.6 MHz	dB	18	20	
Fc +/- 0.8 MHz	dB	35	40	
Fc +/- 1.6 MHZ	dB	35	50	
Other Frequency	dB	40	50	
Temperature Coefficient of Frequency	ppm/°C	-	-0.03	-

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 at room temperature
3) 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 = 68 nH

C1 = C2 = 36 pF

5. Marking Configuration

ITF[1] 05A001[2]

250001B[3]

● [4]

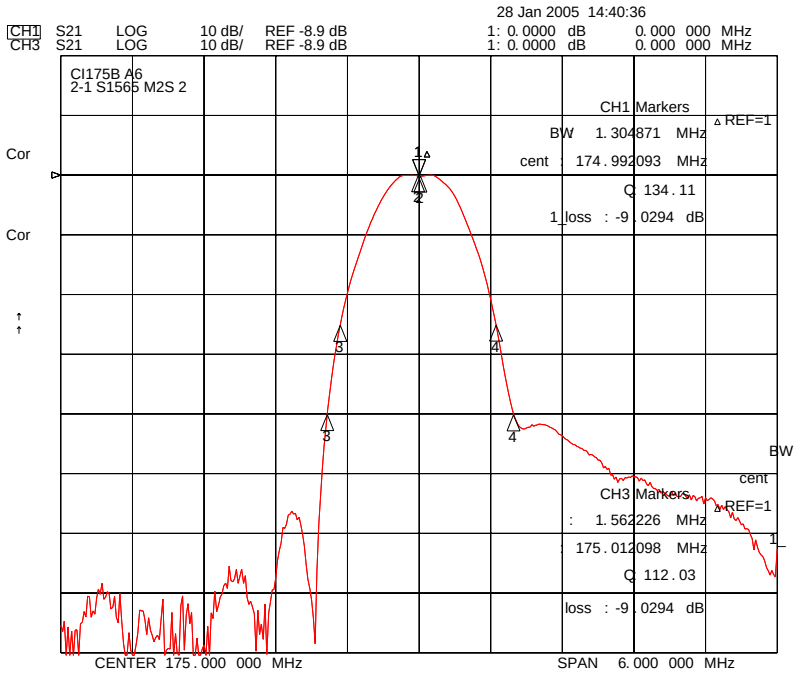
1) Manufacturer name

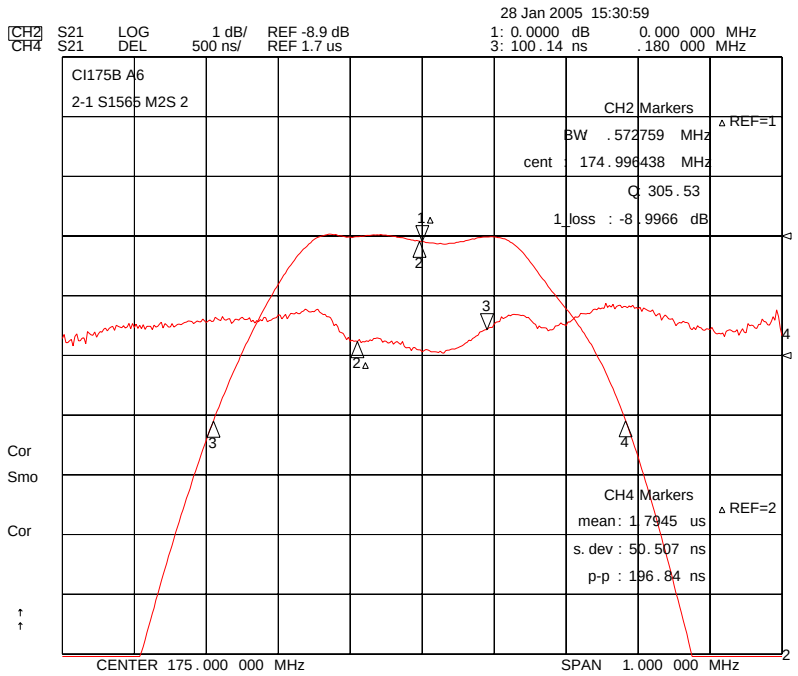
2) Lot Number

3) Part Number

4) Pad Number 1 Index

6. Typical Performance (at +25℃)





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