

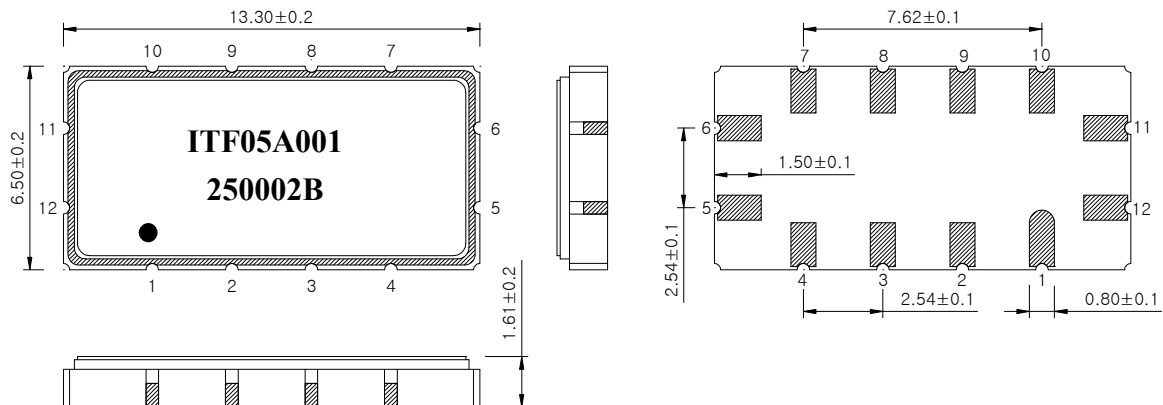
SAW Bandpass Filter 250002B



1. Features

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

2. Package Dimensions



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

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

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250002B	
		Rev. Date	2005-04-04	
		Rev.	NW5003-AS01	1/12

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3. Specifications

Fo = 105.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	104.93	105.0	105.07
Insertion Loss	dB	-	10.0	12.0
1dB Bandwidth	MHz	0.2	0.37	-
3dB Bandwidth	MHz	0.4	0.52	-
30dB Bandwidth	MHz	-	1.06	1.2
Amplitude Ripple (Fc +/- 0.1 MHz)	dB	-	0.3	1.0
Group Delay Variation (Fc +/- 0.1 MHz)	nsec	-	250	500
Absolute Delay	usec	-	1.8	-
Return Loss(Fc +/- 0.1 MHz)	dB	10	15	
Relative Attenuation				-
Fc +/- 0.6 MHz	dB	25	30	
Fc +/- 0.8 MHz	dB	30	35	
Fc +/- 1.6 MHz	dB	35	40	
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

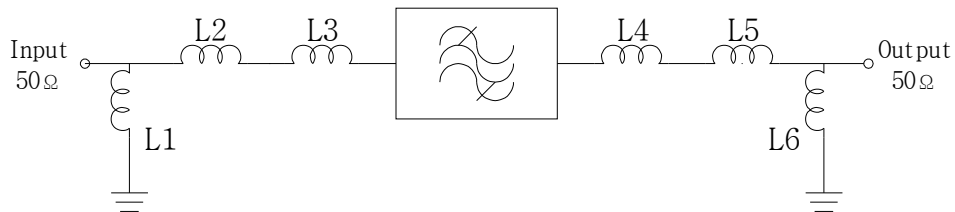
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4. Matching Schematic

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



$$L1 = L6 = 56 \text{ nH}$$

$$L2 = 27 \text{ nH}, \quad L5 = 10 \text{ nH}$$

$$L3 = L4 = 220 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 05A001²⁾

250002B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

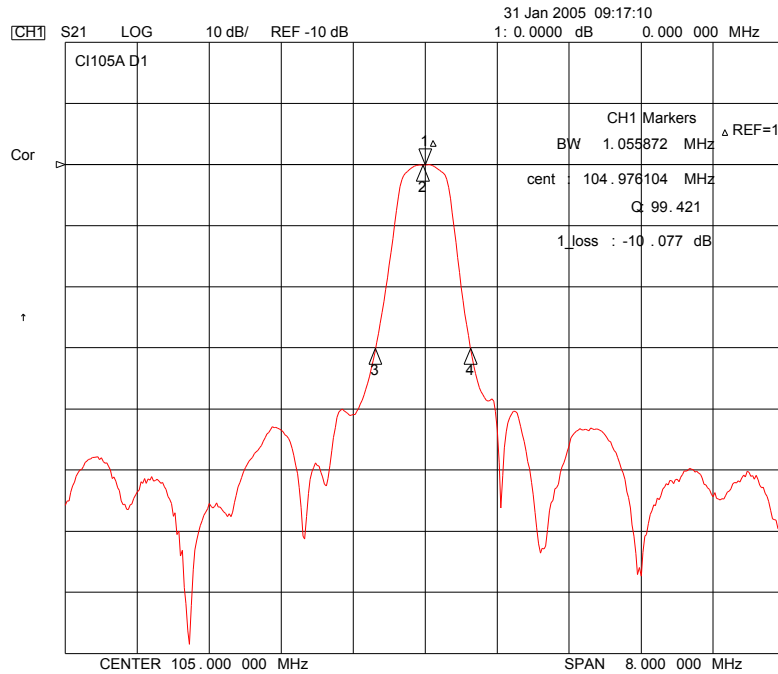
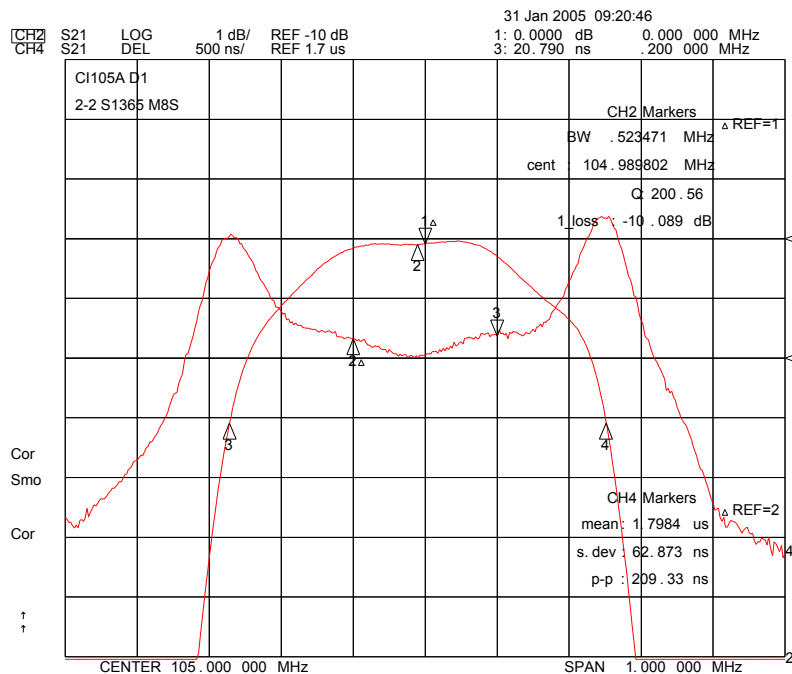
4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



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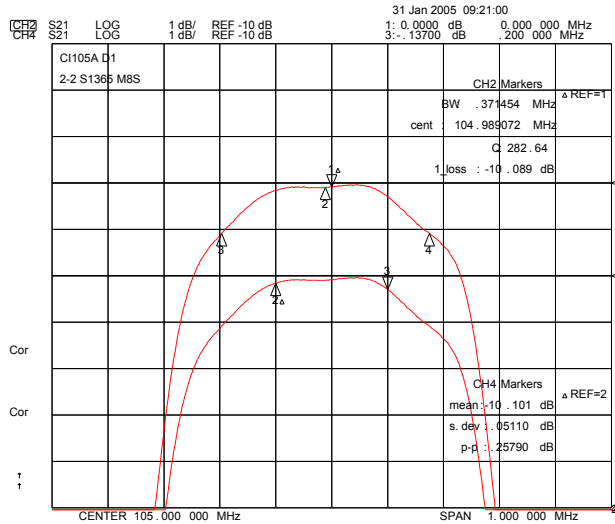
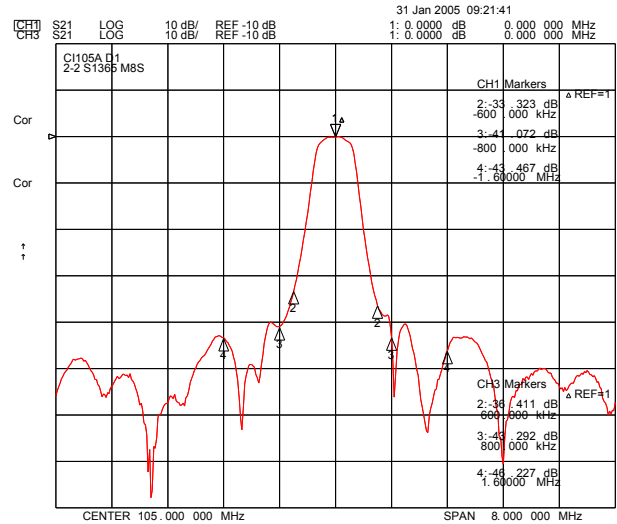
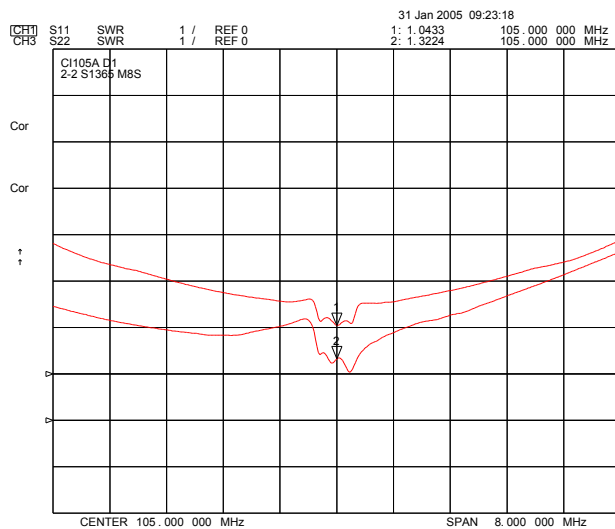
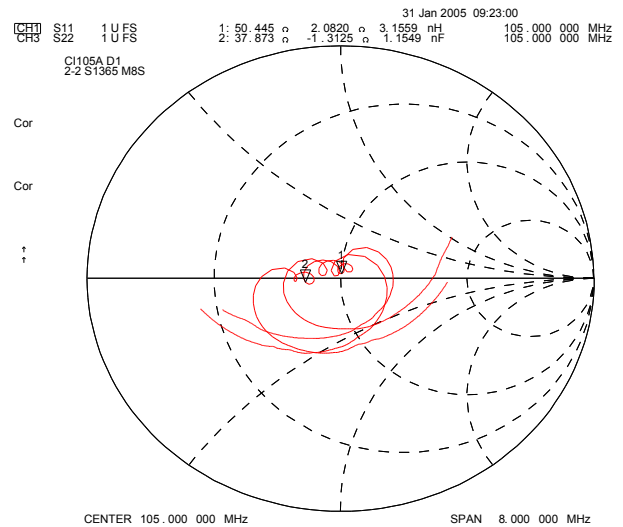
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