

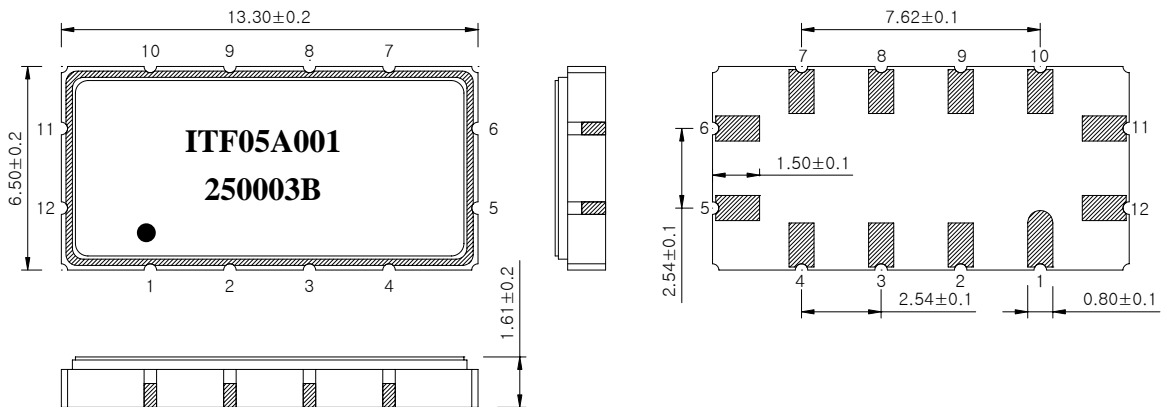
SAW Bandpass Filter 250003B



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.	250003B	
Rev. Date	2005-08-26	
Rev.	NW5008-CS01	1/5

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3. Specifications

Fo = 145.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	144.9	145.0	145.1
Insertion Loss	dB	-	10.0	12.0
1dB Bandwidth	MHz	0.25	0.57	-
3dB Bandwidth	MHz	0.45	0.7	-
25dB Bandwidth	MHz	-	1.3	1.8
40dB Bandwidth	MHz		1.85	1.95
Amplitude Ripple (Fc +/- 0.1 MHz)	dB	-	0.3	1.0
Group Delay Variation (Fc +/- 0.1 MHz)	nsec	-	200	300
Absolute Delay	usec	-	1.3	-
Return Loss(Fc +/- 0.1 MHz)	dB	8	10	
Relative Attenuation				-
0 ~ 138.0 MHz	dB	45	50	
138.0 ~ 142.0 MHz	dB	25	40	
148.0 ~ 152.0 MHz	dB	25	50	
152.0 ~ 231.0 MHz	dB	45	50	
231.0 ~ 234.0 MHz	dB	25	30	
234.0 ~ 259.0 MHz	dB	45	50	
259.0 ~ 262.0 MHz	dB	25	30	
262.0 ~ 500.0 MHz	dB	45	50	
Temperature Coefficient of Frequency	ppm/°C ²	-	-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

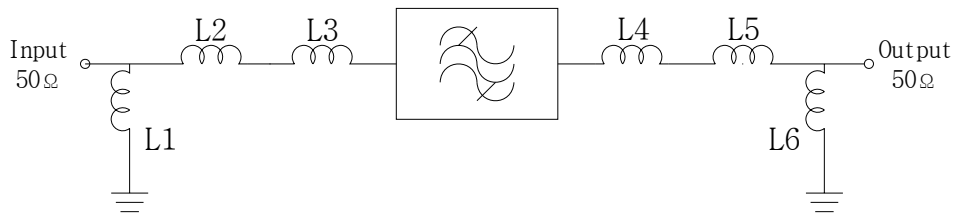
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4. Matching Schematic

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



$$L1 = L6 = 33 \text{ nH}$$

$$L2 = 33 \text{ nH}, \quad L5 = 15 \text{ nH}$$

$$L3 = L4 = 120 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 05A001²⁾

250003B³⁾

● ⁴⁾

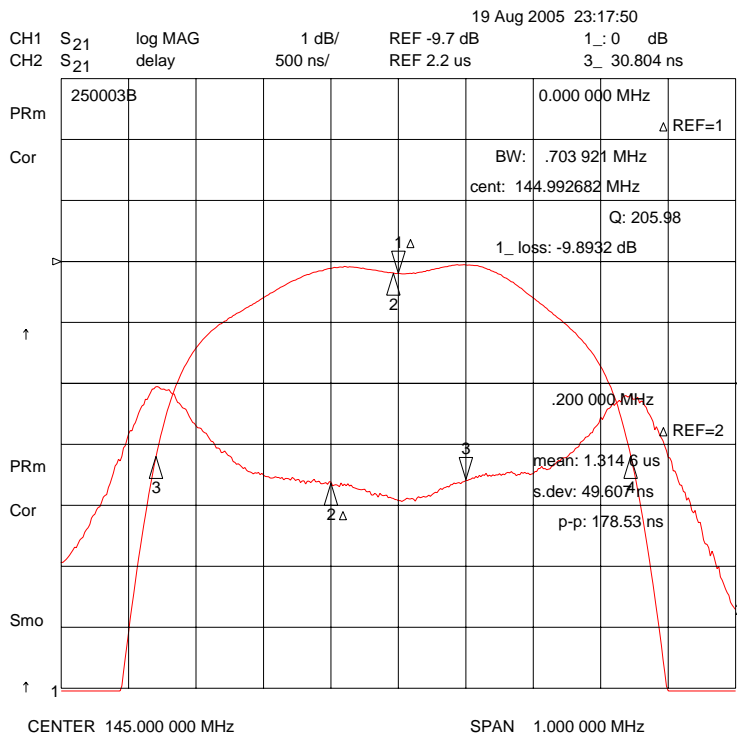
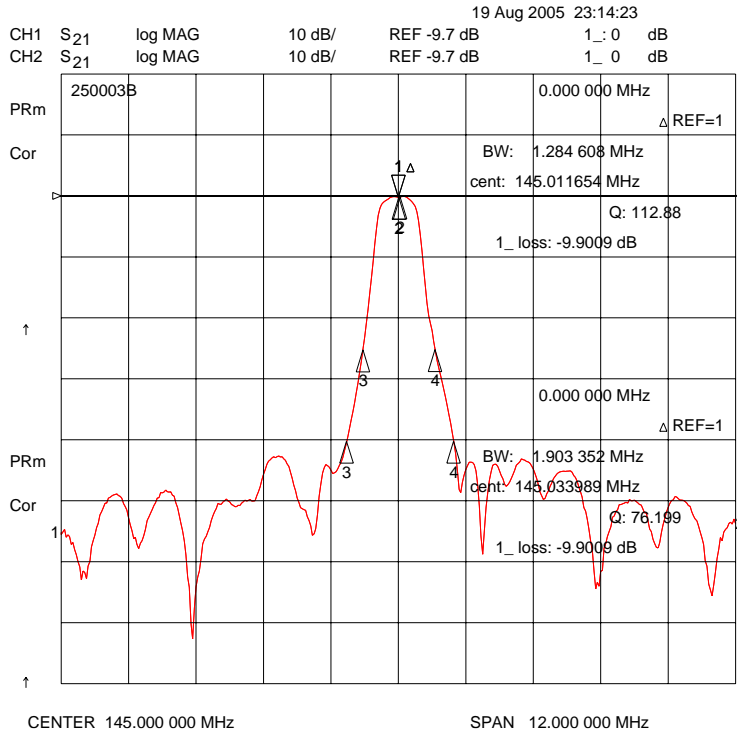
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



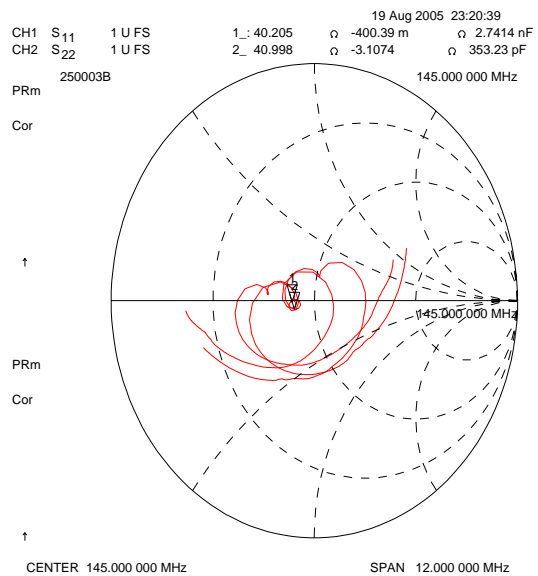
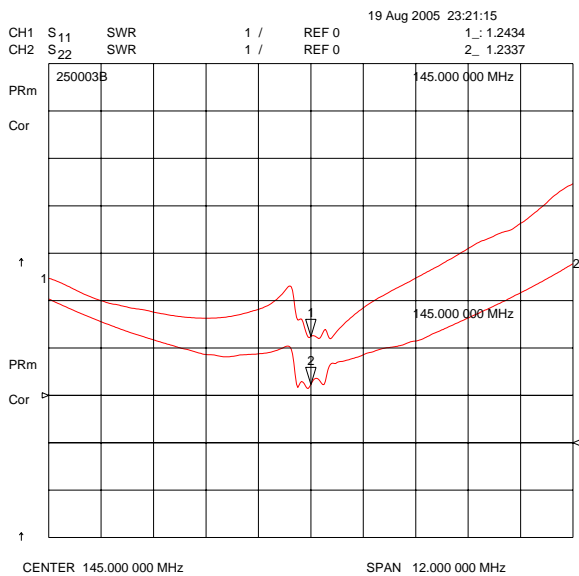
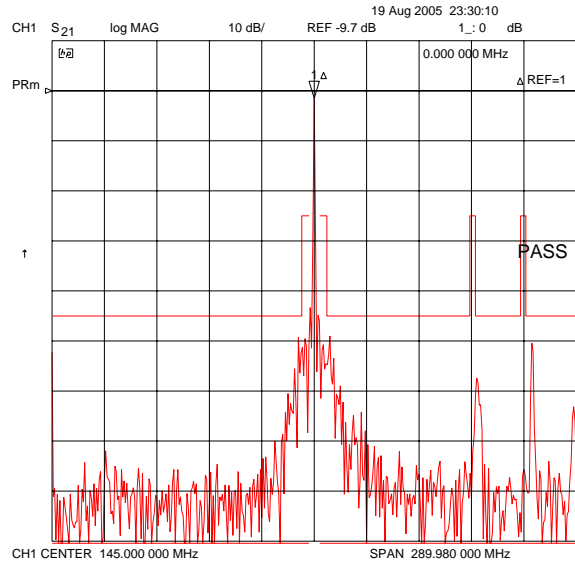
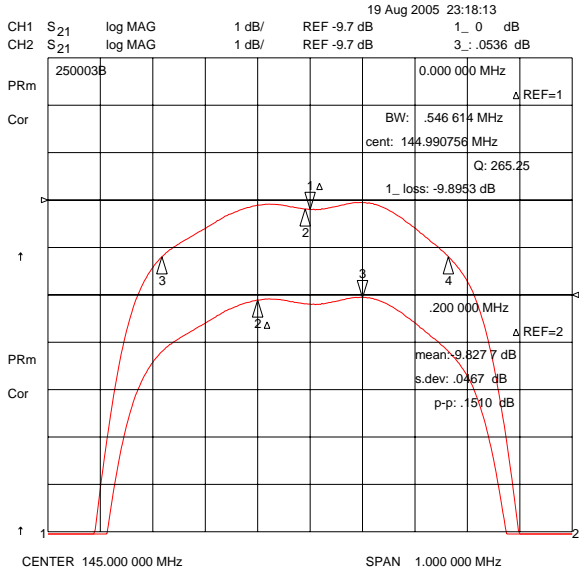
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