

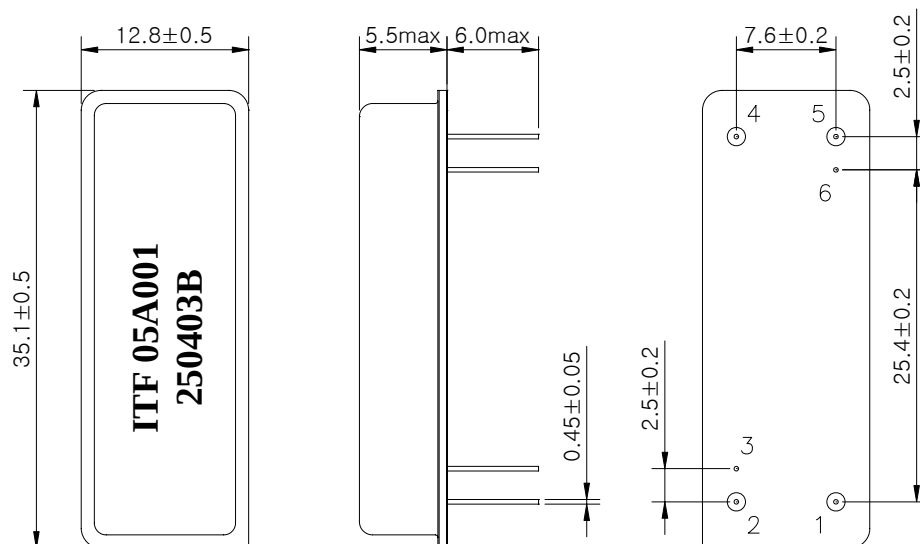
SAW Bandpass Filter 250403B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D3512

Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Pin Configuration	
1	Input
5	Output
2, 4	Ground
Other	Case ground

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	250403B	
		Rev. Date	2005-05-07	
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3. Specifications

Fo = 160 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	159.9	160.0	160.1
Insertion Loss	dB	-	23.6	26
1dB Bandwidth	MHz	3.84	3.99	-
3dB Bandwidth	MHz	4.1	4.16	-
40dB Bandwidth	MHz	-	4.93	5.0
50dB Bandwidth	MHz	-	5.03	5.2
Amplitude Ripple (Fo +/- 1.92 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 1.92 MHz)	nsec	-	150	300
Absolute Delay	usec	-	3.16	-
Ultimate Rejection	dB	50	53	-
Temperature Coefficient of Frequency	ppm/℃ 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
- 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

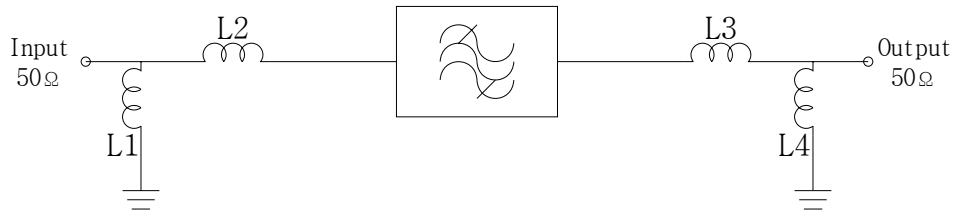
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4. Matching Schematic

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



L1 = 27 nH, L4 = 18 nH

L2 = 33 nH, L3 = 33 nH

5. Marking Configuration

ITF¹⁾05A001²⁾

250403B³⁾

1) Manufacturer name

2) Lot Number

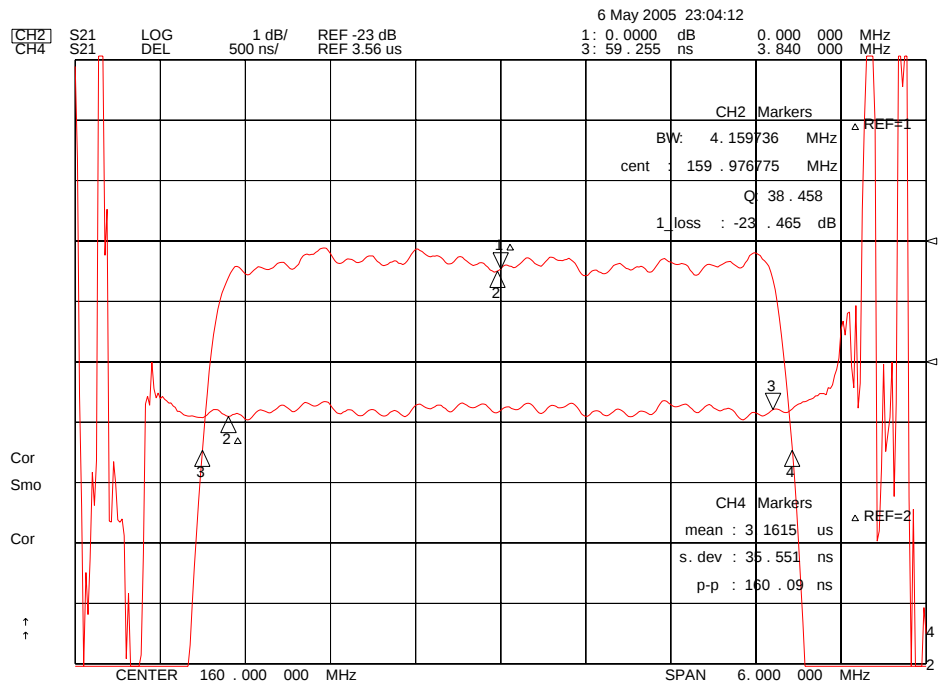
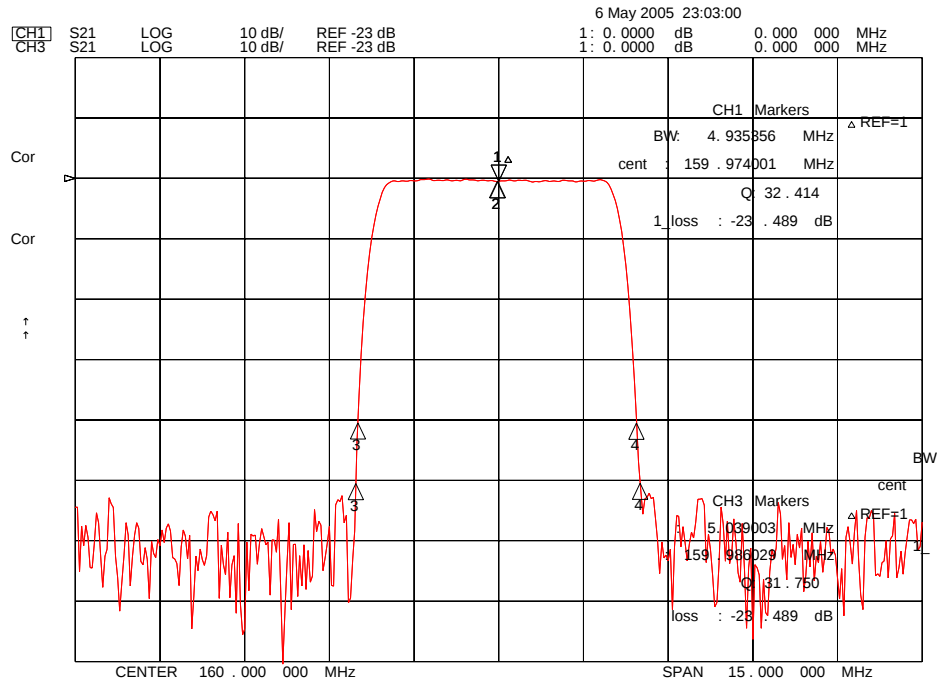
3) Part Number

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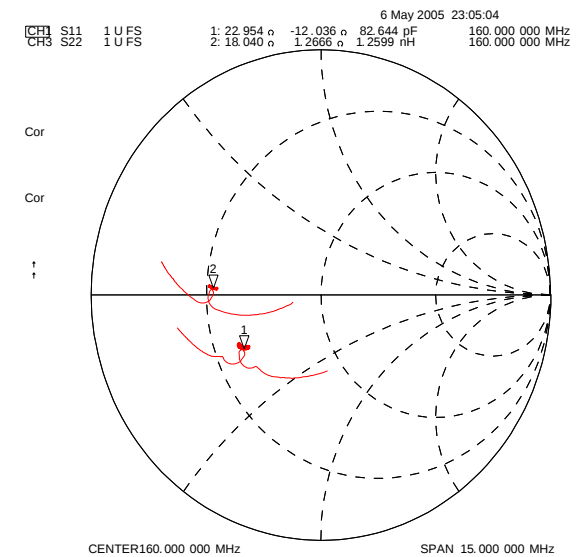
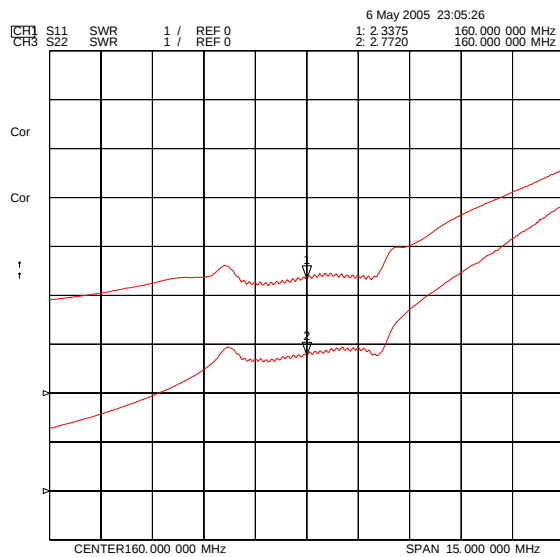
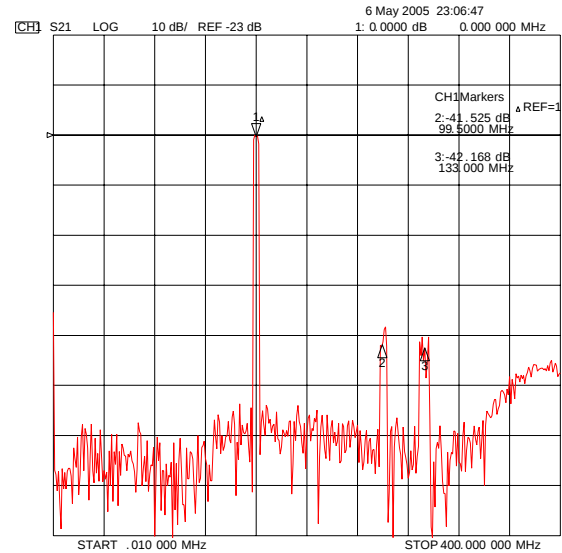
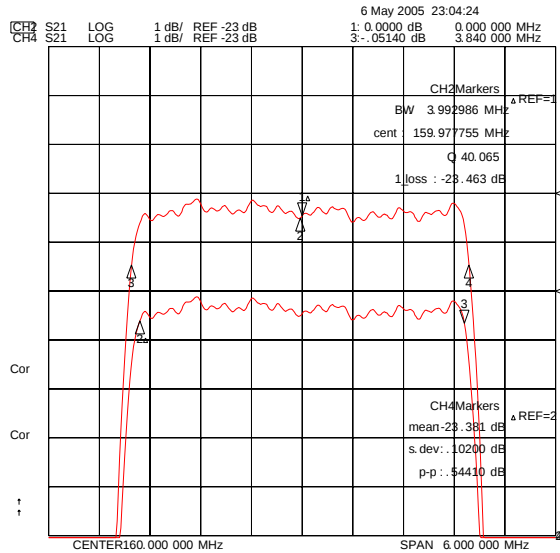


6. Typical Performance (at +25°C)



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