

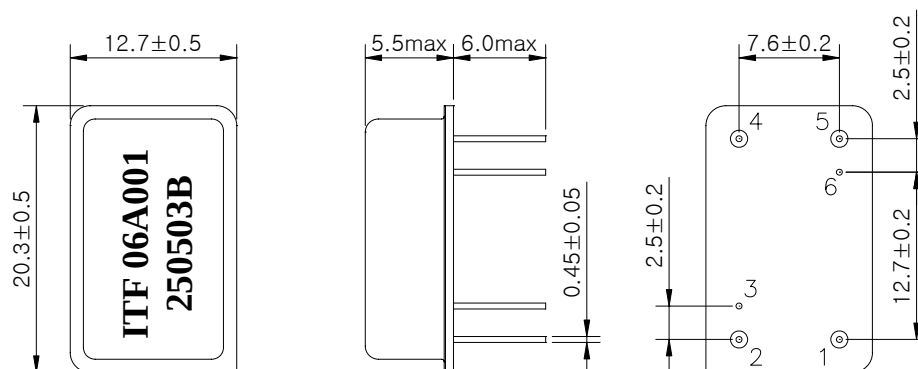
SAW Bandpass Filter 250503B



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 : D2012

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
4	Output
2, 5	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.	250503B	
		Rev. Date	2006-06-09	
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3. Specifications

Fo = 183 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	-	183	-
Insertion Loss	dB	-	22.5	25.0
1dB Bandwidth	MHz	5.0	5.15	-
3dB Bandwidth	MHz	-	5.35	-
40dB Bandwidth	MHz	-	6.25	6.35
Amplitude Ripple (Fo +/- 2.5 MHz)	dB		0.8	1.2
Group Delay Variation (Fo +/- 2.5 MHz)	nsec	-	150	250
Absolute Delay	usec	-	2.58	-
Ultimate Rejection	dB	45	50	-
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

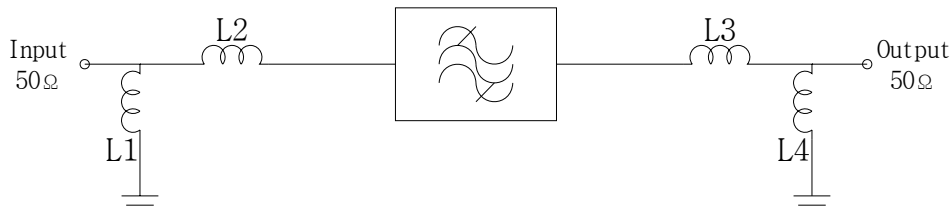
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4. Matching Schematic

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



$$\begin{aligned} L1 &= L4 = 18 \text{ nH} \\ L2 &= 27 \text{ nH}, \quad L3 = 22 \text{ nH} \end{aligned}$$

5. Marking Configuration

ITF¹⁾06A001²⁾
250503B³⁾

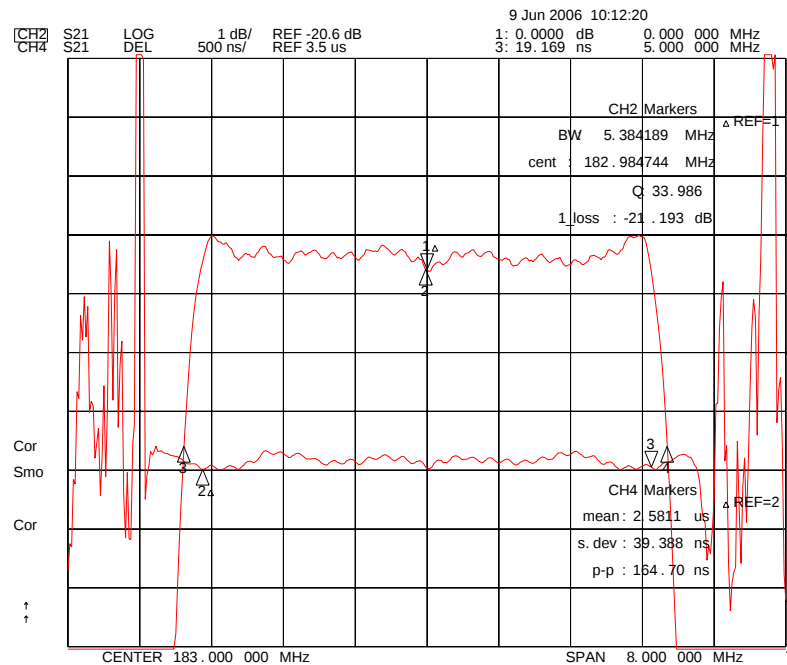
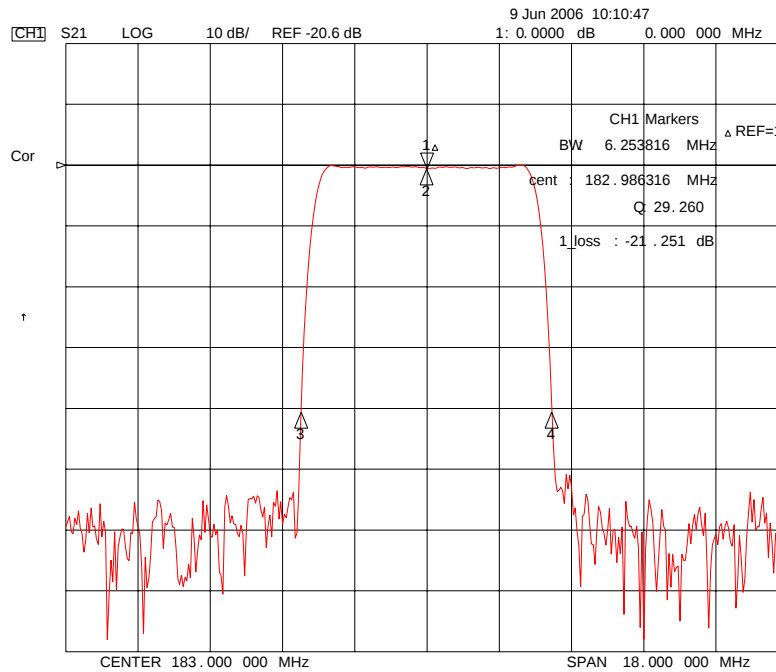
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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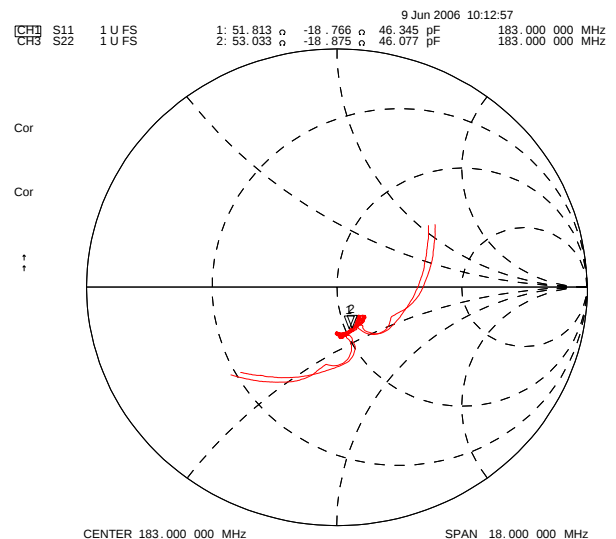
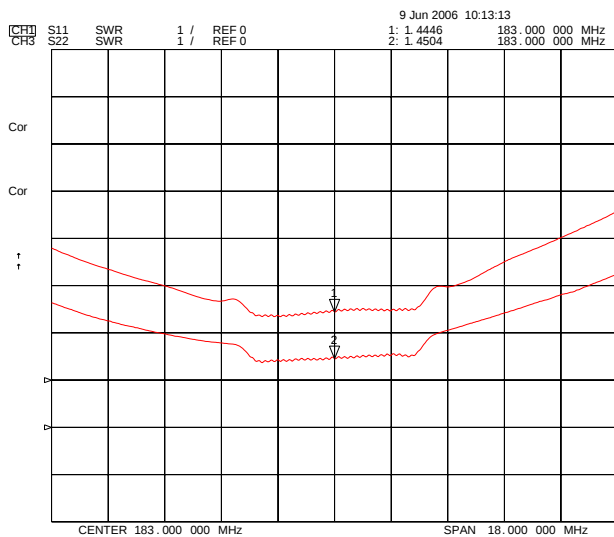
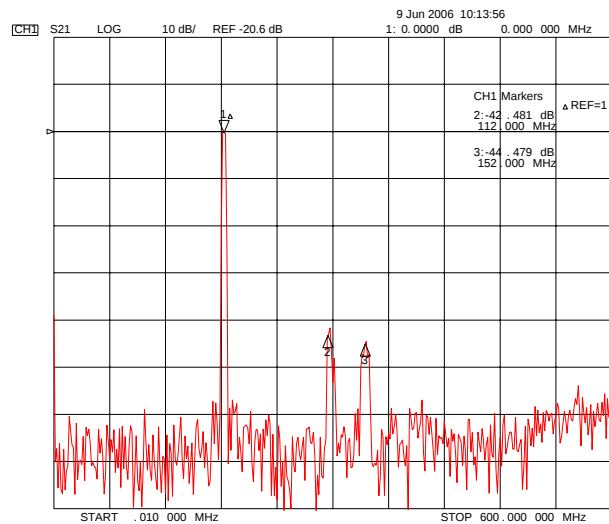
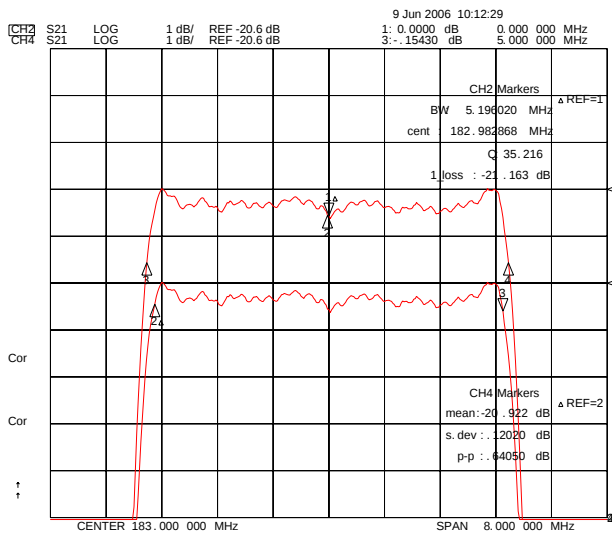


6. Typical Performance (at +25°C)



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