

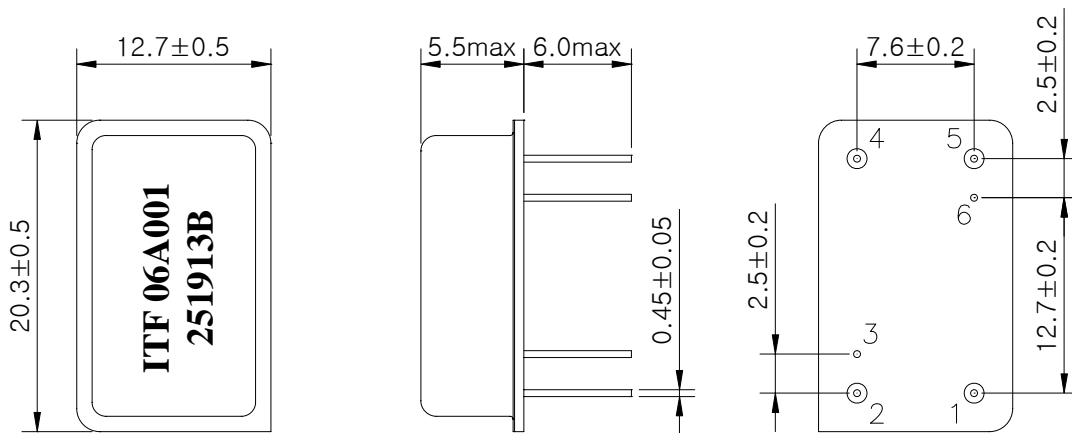
# SAW Bandpass Filter 251913B



## 1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- 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
5	Output
2, 4	Ground
3, 6	Case ground

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	251913B	
		Rev. Date	2006-09-11	
		Rev.	NM6027-CS01	1/5

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## 3. Specifications

Fo = 120.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : +0℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	120.0	-
Insertion Loss	dB	-	24.0	25.0
1dB Bandwidth	MHz	-	19.35	-
3dB Bandwidth	MHz	19.5	19.65	-
40dB Bandwidth	MHz	-	20.92	21.0
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.23	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/℃	-	-80	-

Room temperature : + 25 ℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	120.0	-
Insertion Loss	dB	-	24.0	25.0
Amplitude Ripple (Fo +/- 9.48 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 9.48 MHz)	nsec	-	50	100

### 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

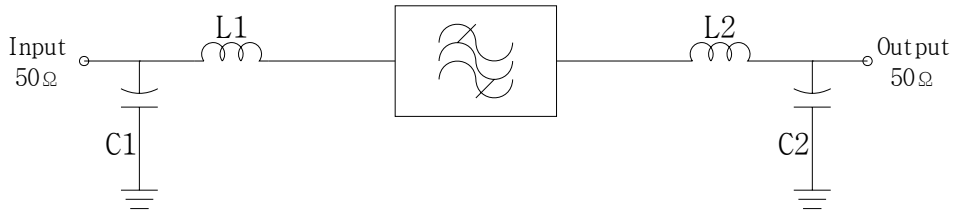
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## 4. Matching Schematic

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



L1 = 47nH, L2 = 47nH

C1 = 33pF, C2 = 33pF

## 5. Marking Configuration

ITF<sup>1)</sup> 06A001<sup>2)</sup>

251913B<sup>3)</sup>

1) Manufacturer name

2) Lot Number

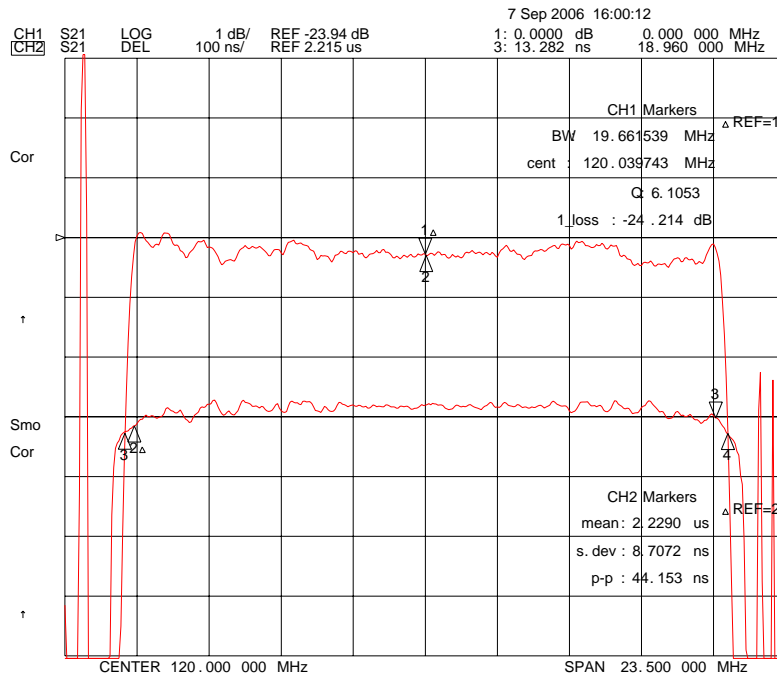
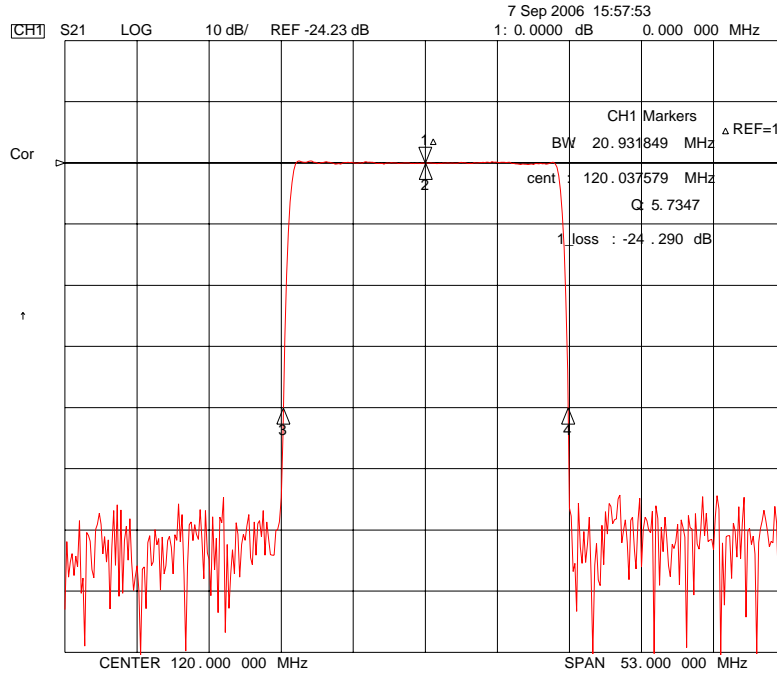
3) Part Number

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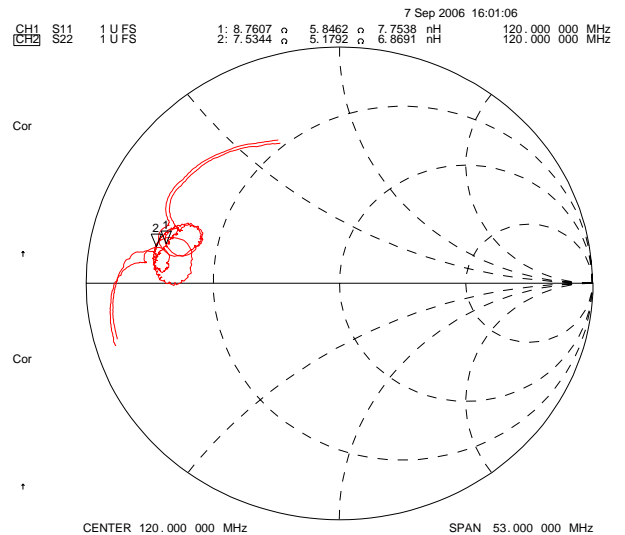
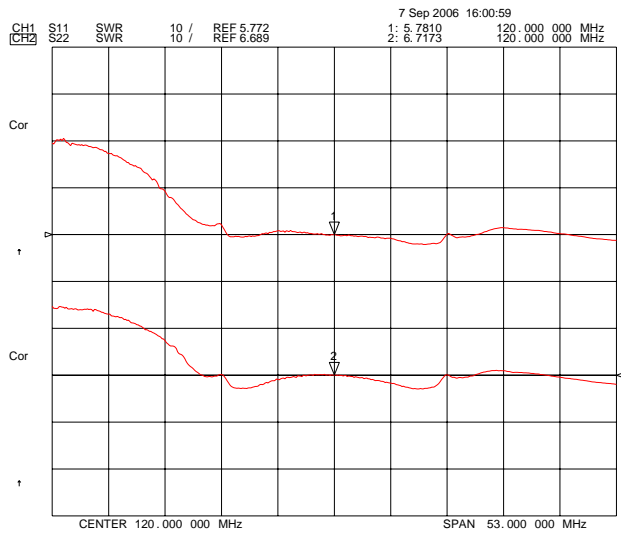
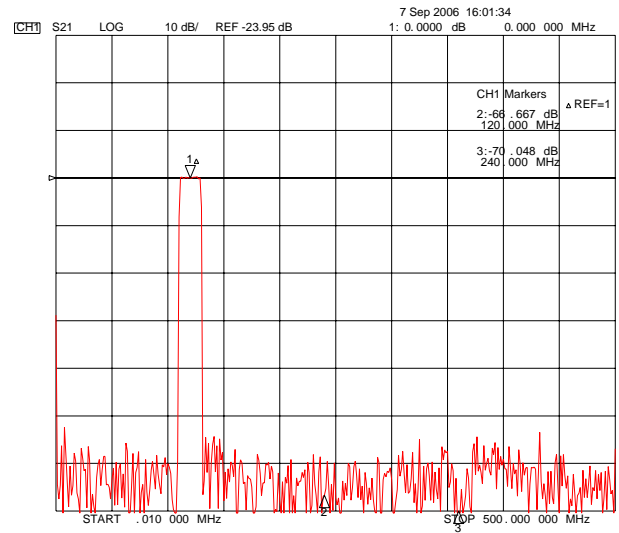
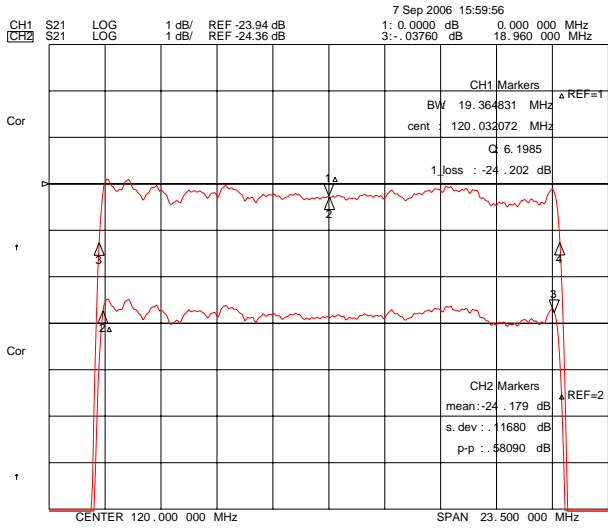


## 6. Typical Performance ( at +25°C )



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