

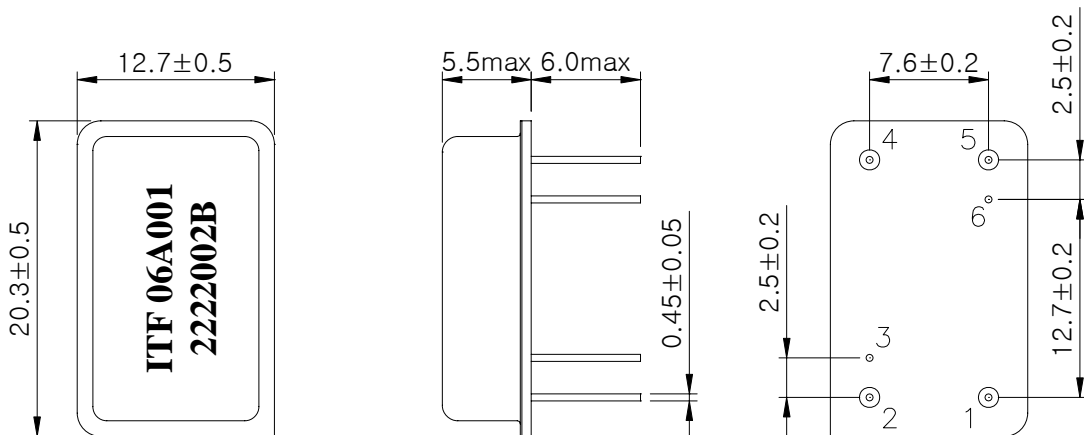
# SAW Bandpass Filter 222002B



## 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.	222002B	
		Rev. Date	2006-07-15	
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## 3. Specifications

F<sub>0</sub> = 60.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	60.0	-
Insertion Loss	dB	-	24.0	26.0
1dB Bandwidth	MHz	-	20.2	-
3dB Bandwidth	MHz	20.4	20.5	-
40dB Bandwidth	MHz	-	21.85	21.98
Amplitude Ripple (F <sub>0</sub> +/- 9.75 MHz)	dB	-	0.7	1.0
Group Delay Variation (F <sub>0</sub> +/- 9.75 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.41	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

### 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

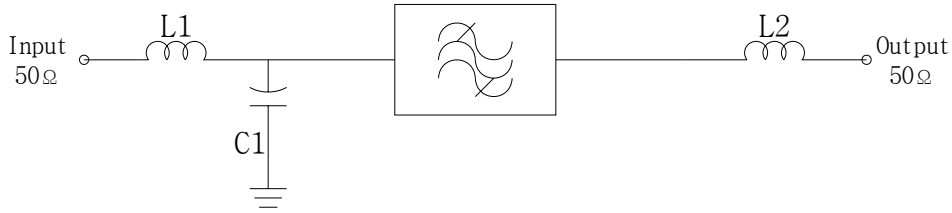
 Integrated Technology Future	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	222002B	
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## 4. Matching Schematic

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




L1 = 270nH, L2 = 180nH

C1 = 3pF

## 5. Marking Configuration

ITF<sup>1)</sup> 06A001<sup>2)</sup>  
222002B<sup>3)</sup>

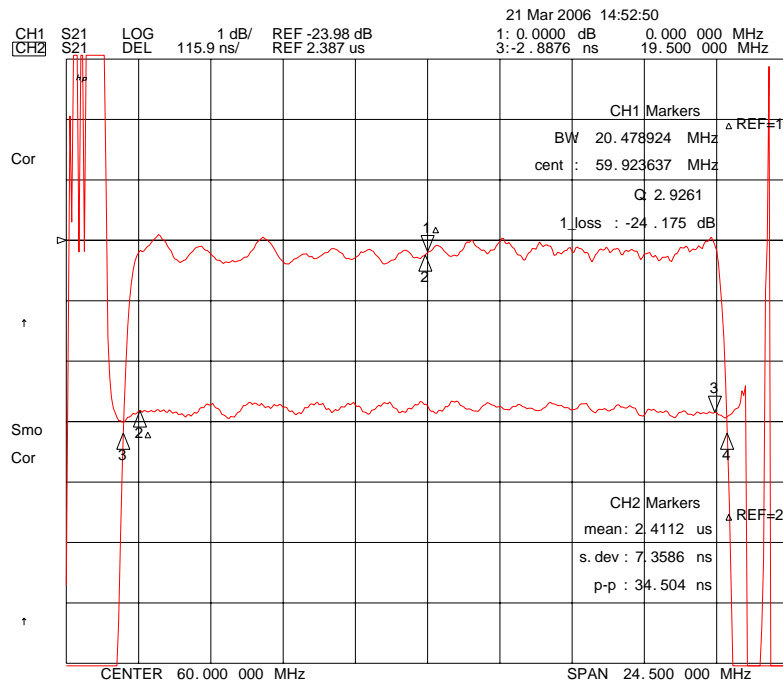
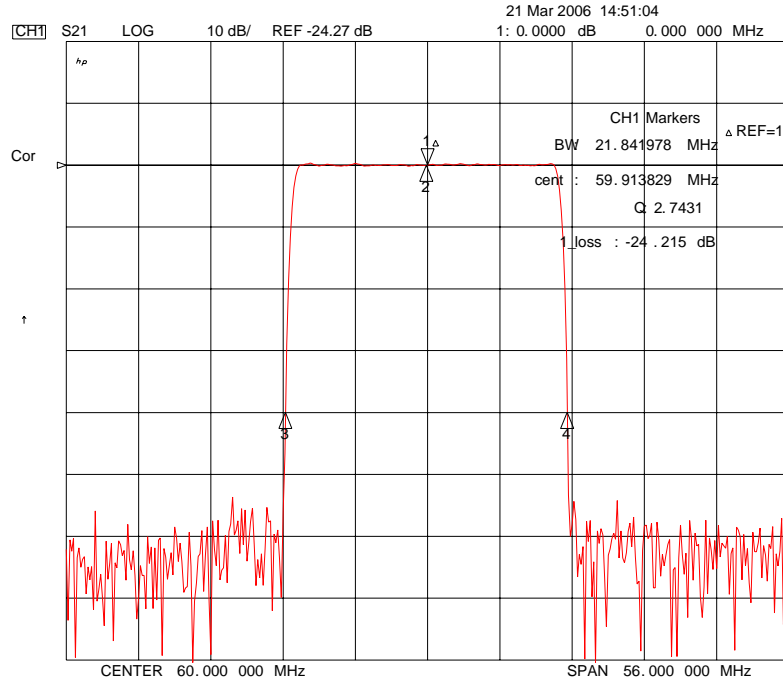
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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



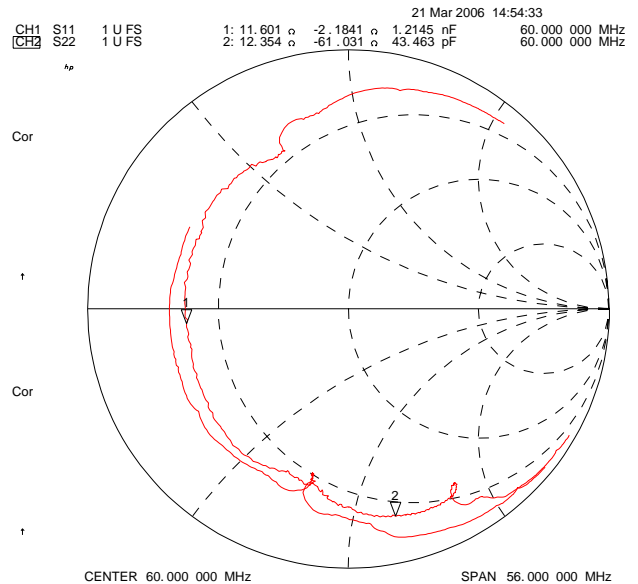
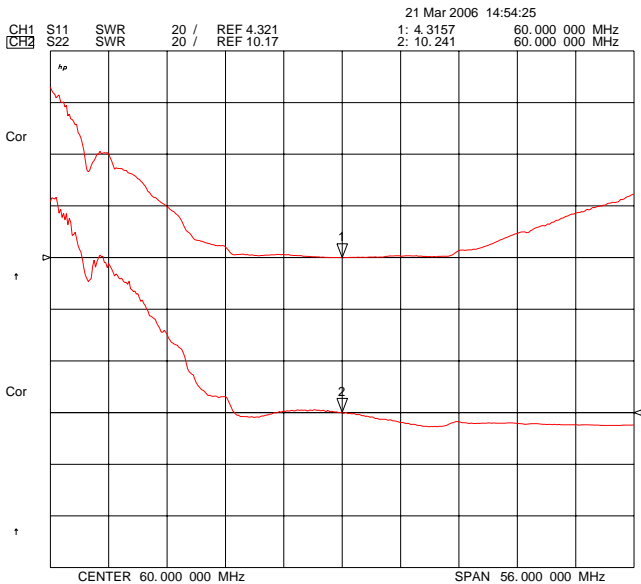
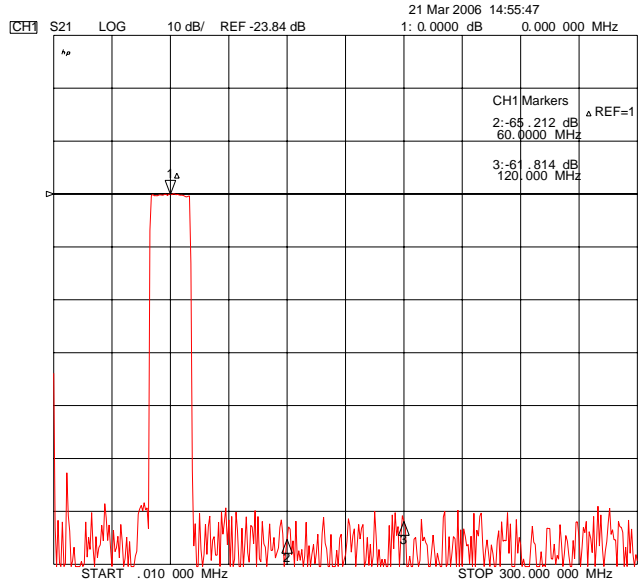
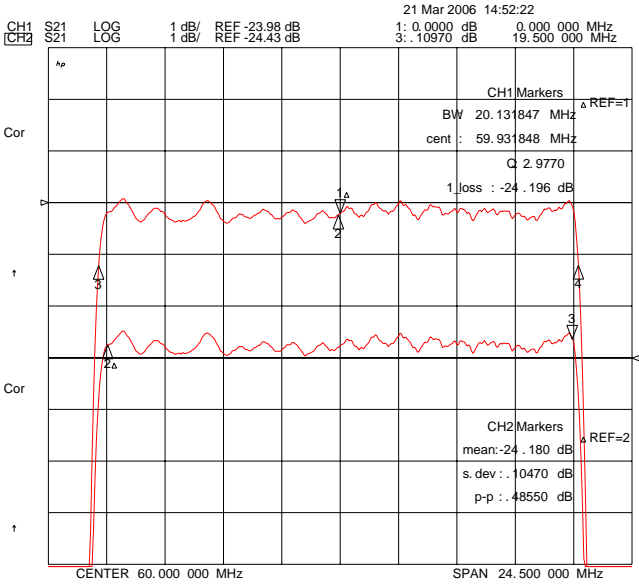
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