

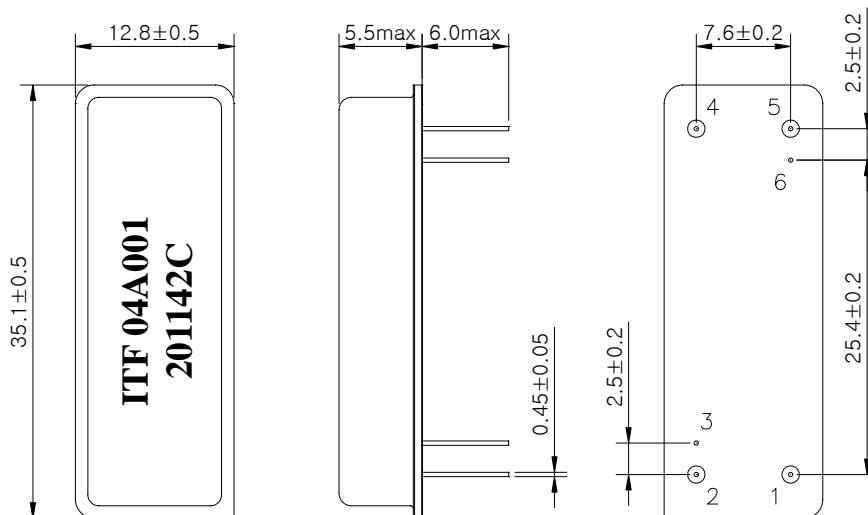
# SAW Bandpass Filter 201142C



## 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 : 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
3, 6	Case ground



**ITF Co., Ltd.**  
 102-901, Bucheon Technopark 364,  
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,  
 Gyeonggi-Do, Korea 421-809

Part No.	201142C	
Rev. Date	2004-03-22	
Rev.	NM3034-CS03	1/5

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## 3. Specifications

Fo = 70 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -15°C ~ +75°C		Minimum	Typical	Maximum
Center Frequency	MHz	-	70.0	-
Insertion Loss	dB	-	25.5	27.0
1dB Bandwidth	MHz	-	9.85	-
3dB Bandwidth	MHz	10.0	10.1	-
40dB Bandwidth	MHz	-	11.13	11.25
Amplitude Ripple (Fo +/- 4.375 MHz)	dB	-	0.9	1.2
Group Delay Variation (Fo +/- 4.375 MHz)	nsec	-	80	150
Absolute Delay	usec	-	3.18	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-90	-

Operating temperature range : + 25 °C		Minimum	Typical	Maximum
Center Frequency	MHz	69.96	70.0	70.04
Amplitude Ripple (Fo +/- 4.7 MHz)	dB	-	1.0	1.2
Group Delay Variation (Fo +/- 4.7 MHz)	nsec	-	80	150

### 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

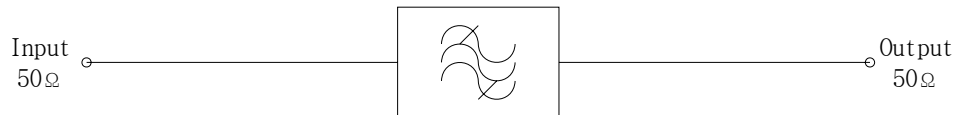
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## 4. Matching Schematic


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



## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
201142C<sup>3)</sup>

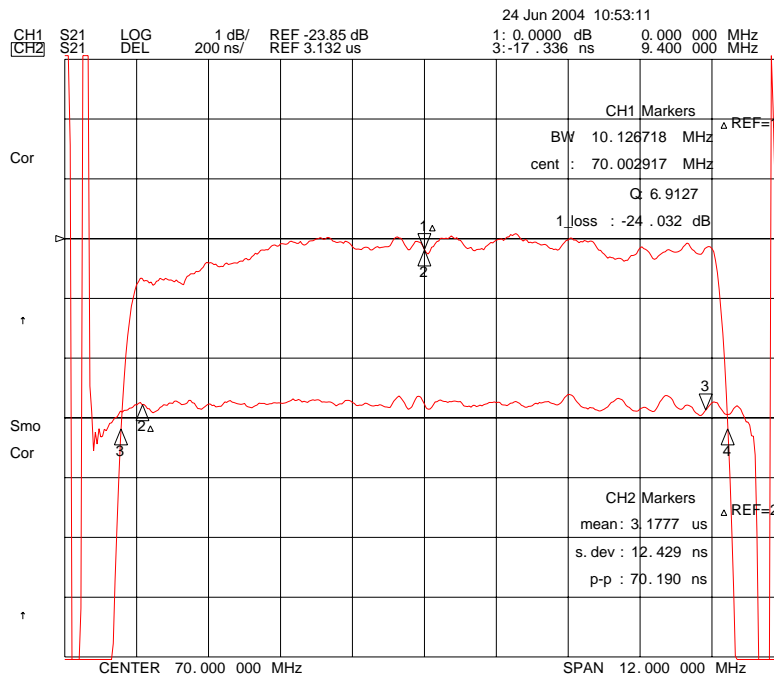
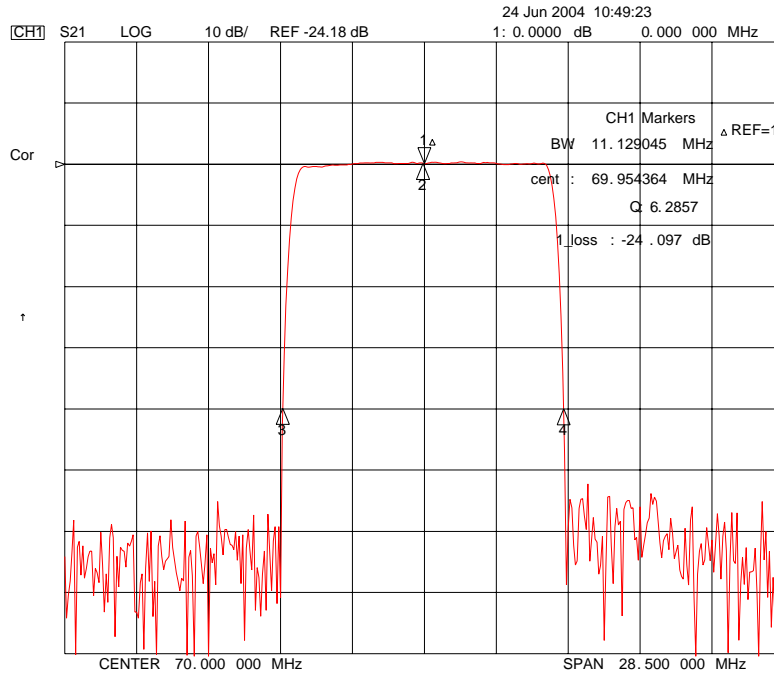
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

 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.	201142C	
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## 6. Typical Performance ( at +25°C )



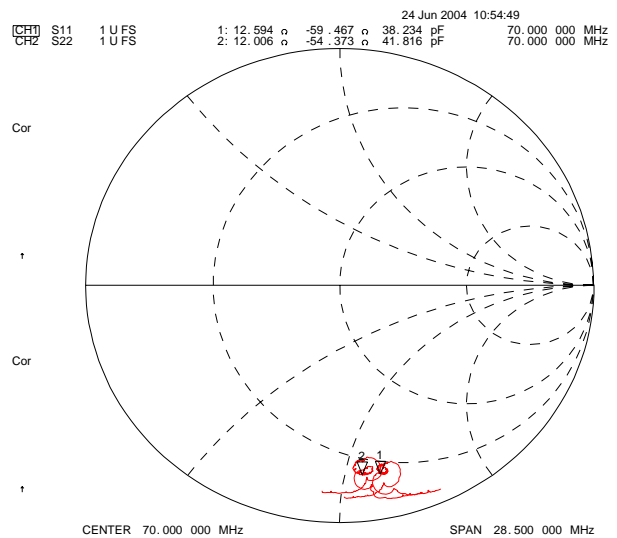
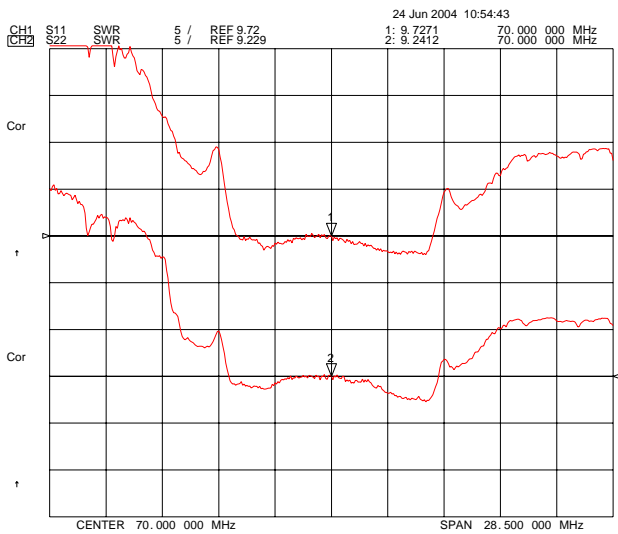
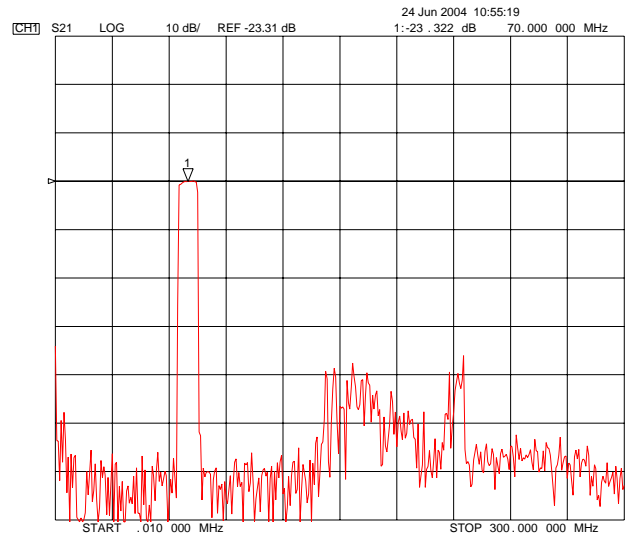
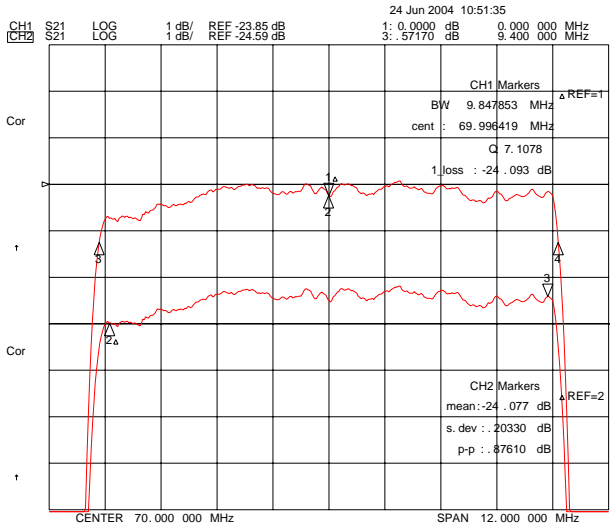
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## Typical Performance (at +25°C)



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