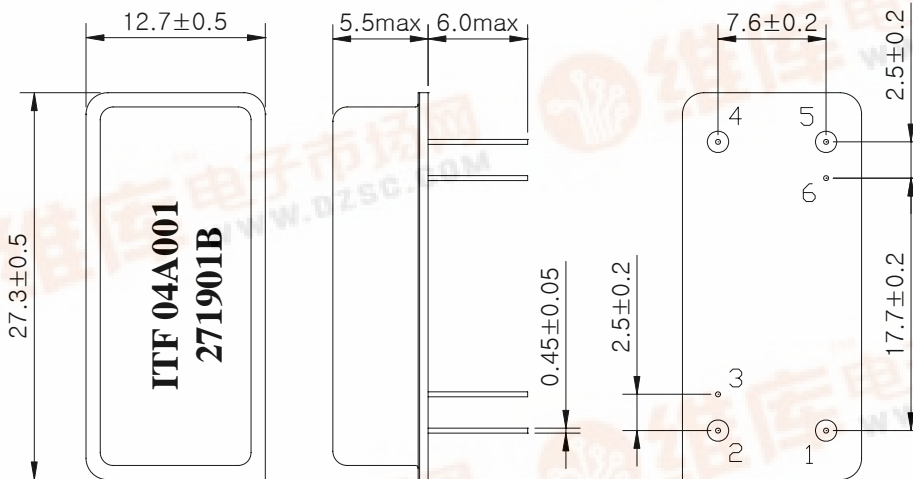


# SAW Bandpass Filter 271901B

## 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 : D2712

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

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### 3. Specifications

Fo = 70 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	69.95	70.0	70.05
Insertion Loss	dB	-	24.0	25.0
1dB Bandwidth	MHz	-	19.0	-
3dB Bandwidth	MHz	19.1	19.2	-
40dB Bandwidth	MHz	-	20.09	20.3
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	60	100
Absolute Delay	usec	-	3.09	-
Ultimate Rejection	dB	50	52	-
Temperature Coefficient of Frequency	ppm/°C	-	-79	-

#### Notes :

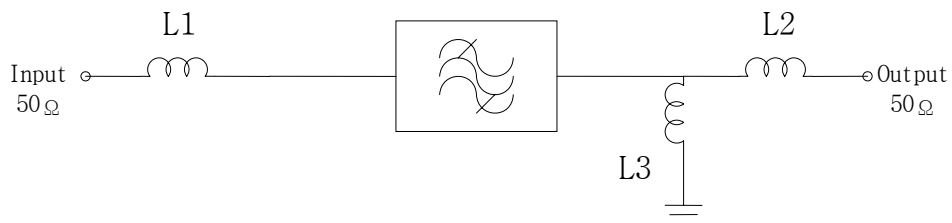
- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

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### 4. Matching Schematic

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




L1 = 100 nH,      L2 = 120 nH  
L3 = 470 nH

### 5. Marking Configuration

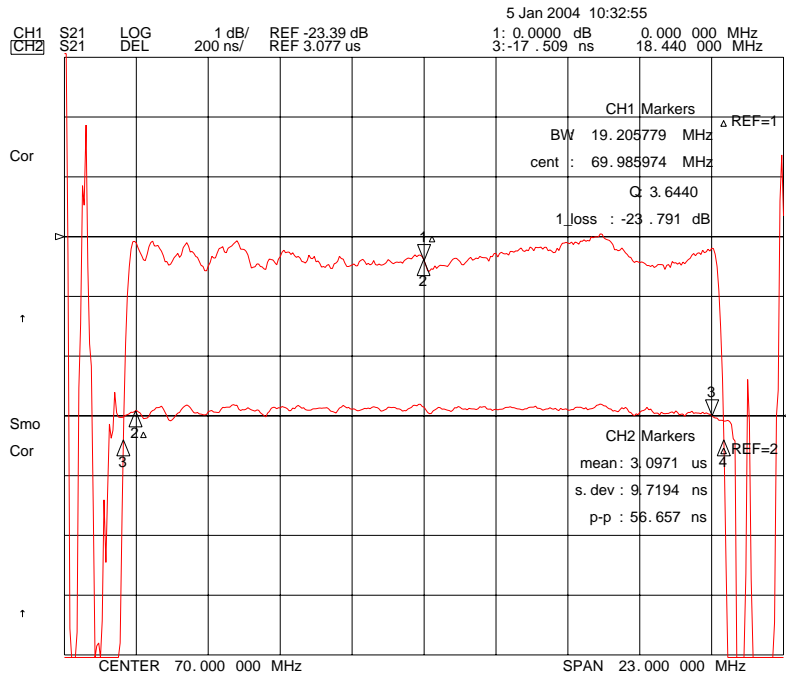
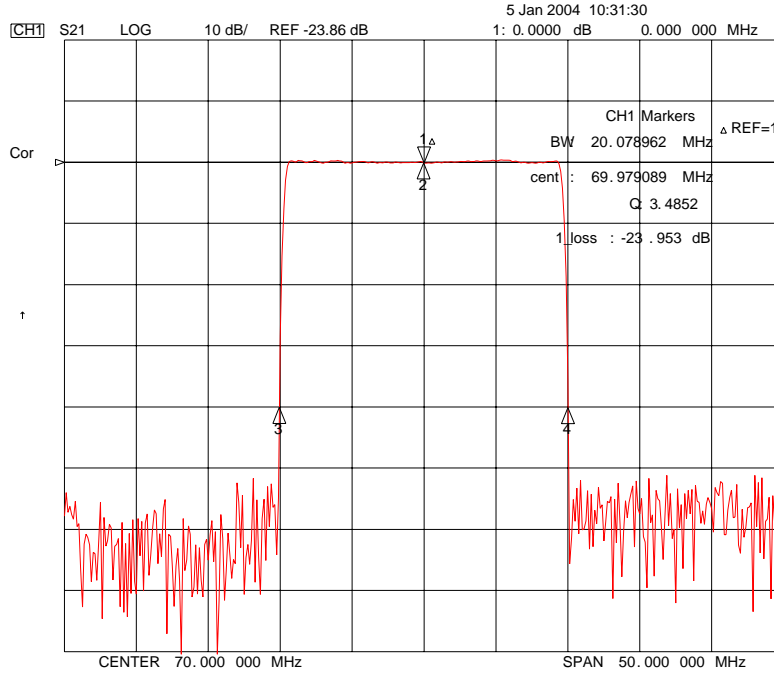
ITF<sup>1)</sup>04A001<sup>2)</sup>  
271901B<sup>3)</sup>

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

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271901B	
		Rev. Date	2004-04-19	
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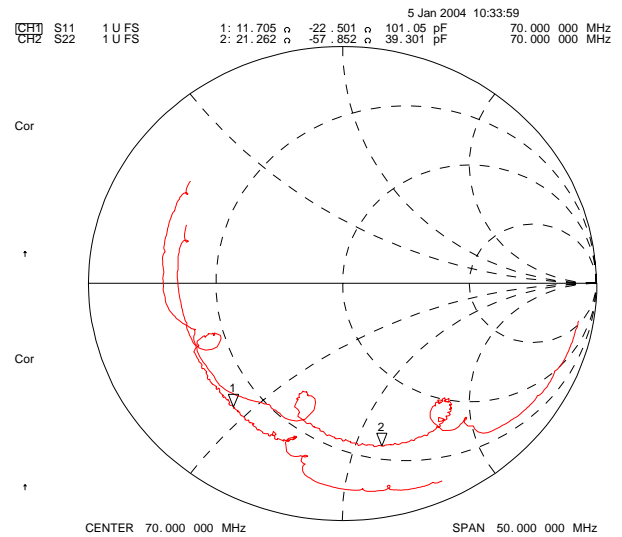
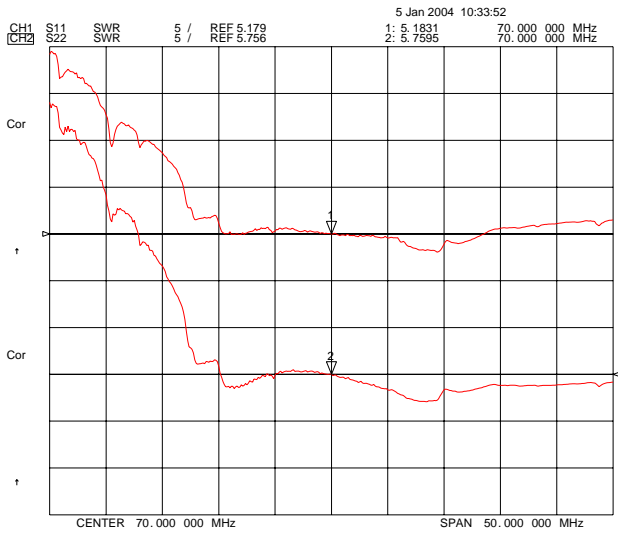
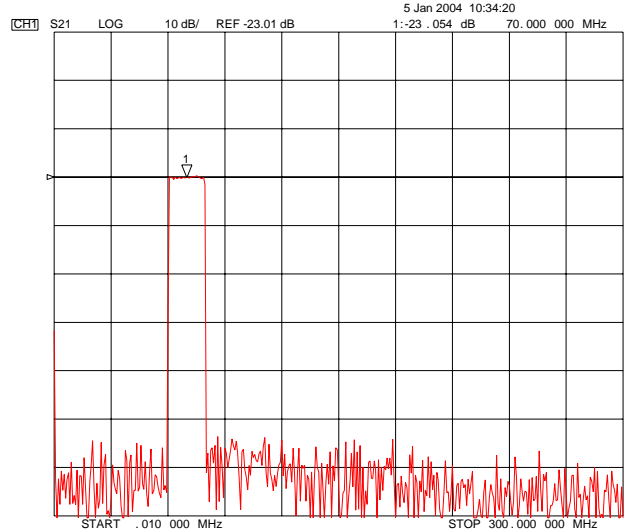
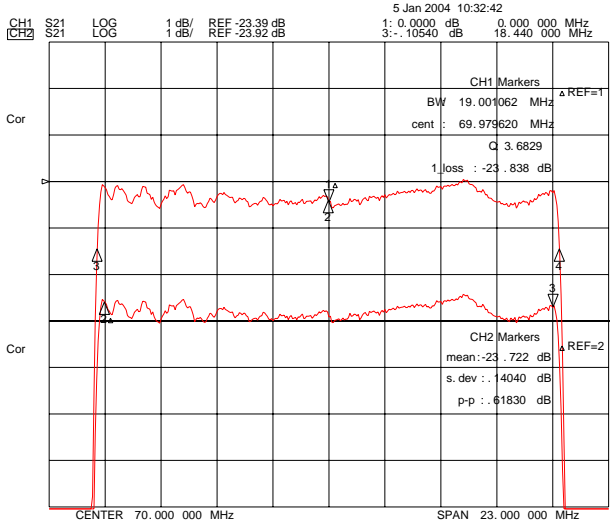
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## 6. Typical Performance ( at +25°C )



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