

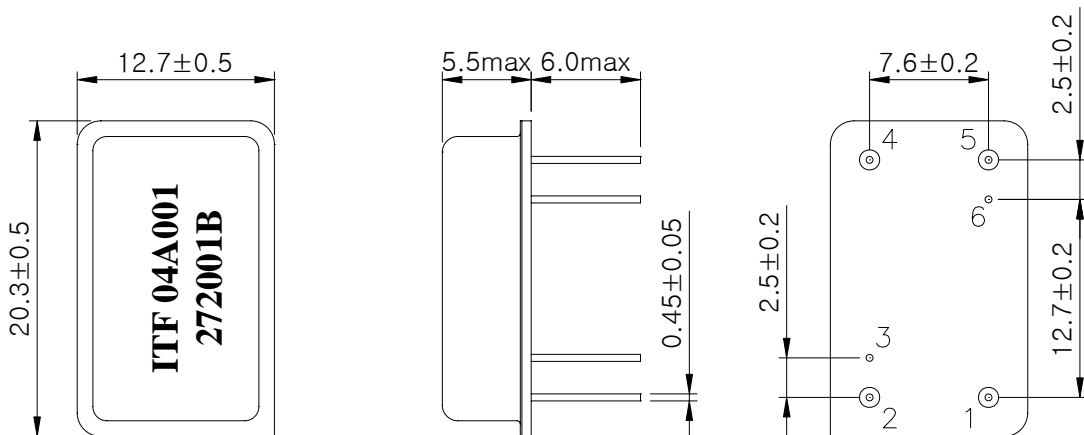
# SAW Bandpass Filter 272001B



## 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.	272001B	
		Rev. Date	2004-08-09	
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## 3. Specifications

Fo = 70.0 MHz

Terminating source impedance : 50Ω and matching network


Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	69.9	70.0	70.1
Insertion Loss	dB	-	23.5	25.0
1dB Bandwidth	MHz	-	20.3	-
3dB Bandwidth	MHz	20.5	20.6	-
40dB Bandwidth	MHz	-	21.95	22.1
Amplitude Ripple (Fo +/-9.75 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 9.75 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.39	-
Ultimate Rejection	dB	50	55	-
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

All attenuation measurements are measured relative to insertion loss

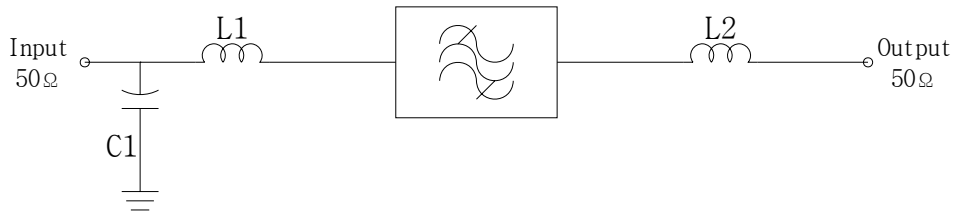
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## 4. Matching Schematic

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




L1 = 180 nH,      L2 = 150 nH  
C1 = 39 pF

## 5. Marking Configuration

ITF<sup>1)</sup> 04A001<sup>2)</sup>  
272001B<sup>3)</sup>

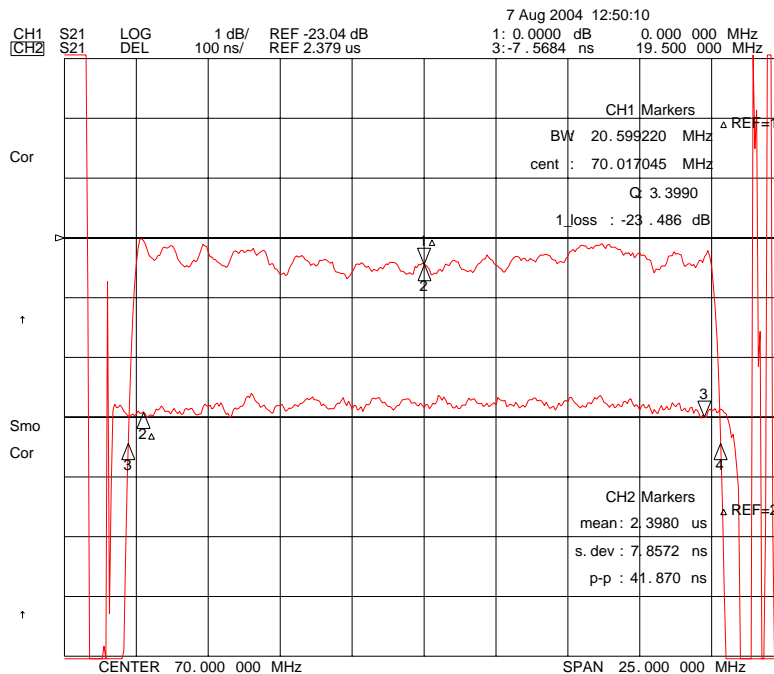
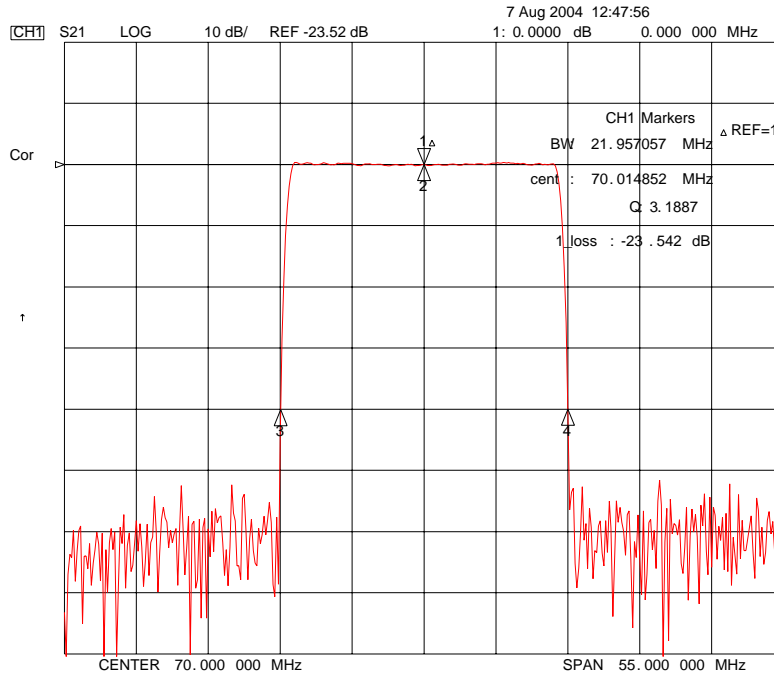
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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



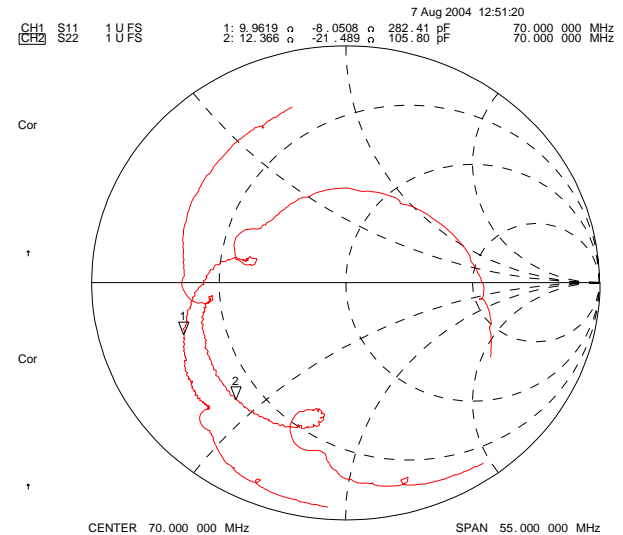
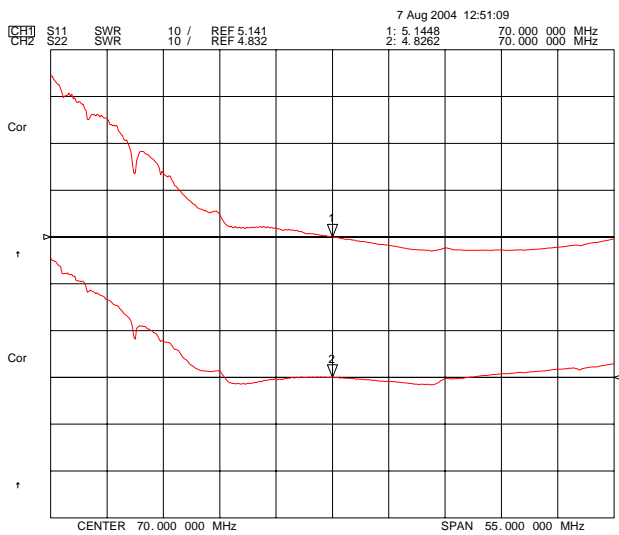
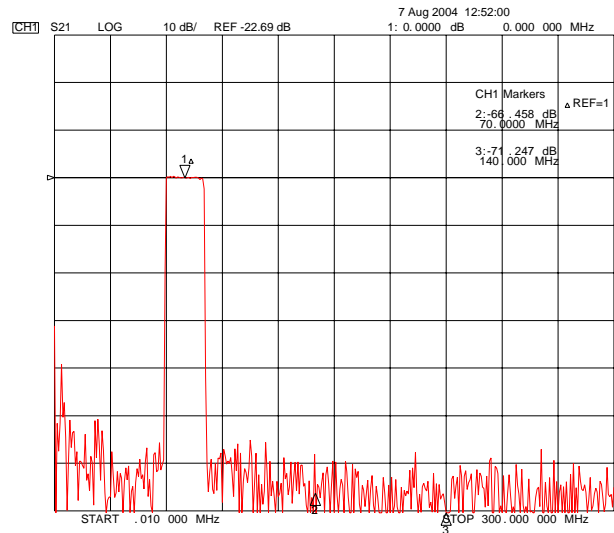
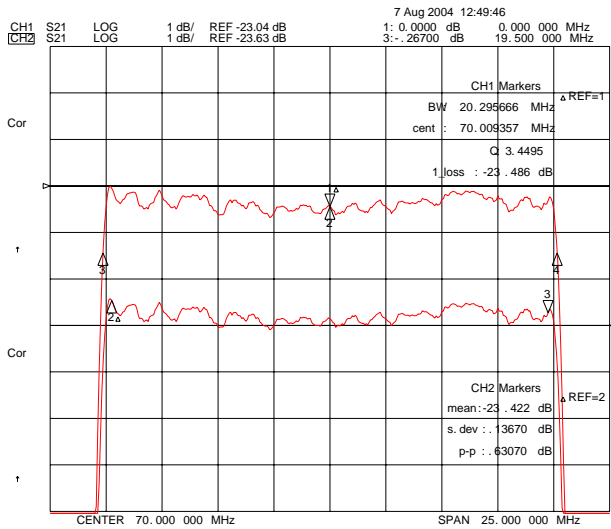
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