

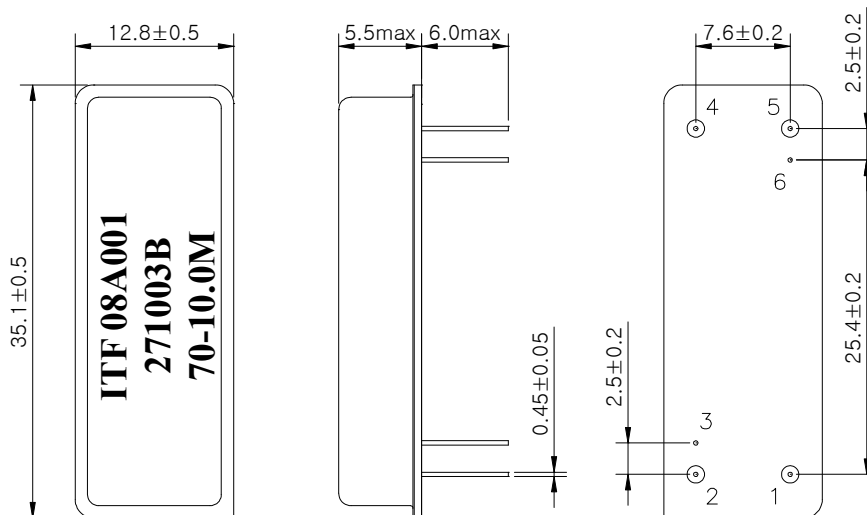
# SAW Bandpass Filter 271003B



## 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

	<b>ITF Co., Ltd.</b> 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271003B	
		Rev. Date	2008-11-07	
		Rev.	NM8043-CS01	1/5

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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	-	70.0	-
Insertion Loss	dB	-	22.5	24.0
2dB Bandwidth	MHz	9.9	10.0	-
25dB Bandwidth	MHz	-	10.7	10.8
40dB Bandwidth	MHz	-	10.86	-
Amplitude Ripple (fo ± 4.75 MHz)	dB	-	0.5	1.0
Group Delay Variation (fo ± 5.75 MHz)	nsec	-	55	100
Absolute Delay	usec	-	3.37	-
Ultimate Rejection	dB	48	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

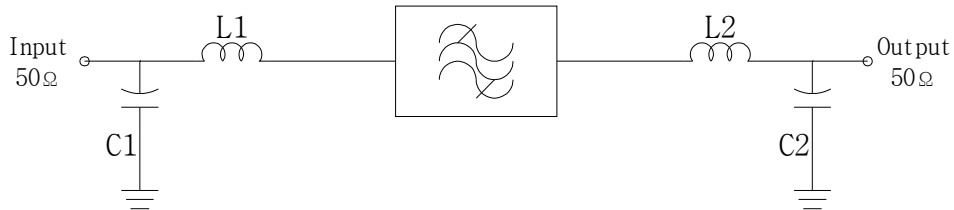
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## 4. Matching Schematic

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



$$L1 = L2 = 68\text{nH}$$

$$C1 = C2 = 39\text{pF}$$


## 5. Marking Configuration

ITF<sup>1)</sup> 08A001<sup>2)</sup>

271003B<sup>3)</sup>

70<sup>4)</sup> -10.0M<sup>5)</sup>

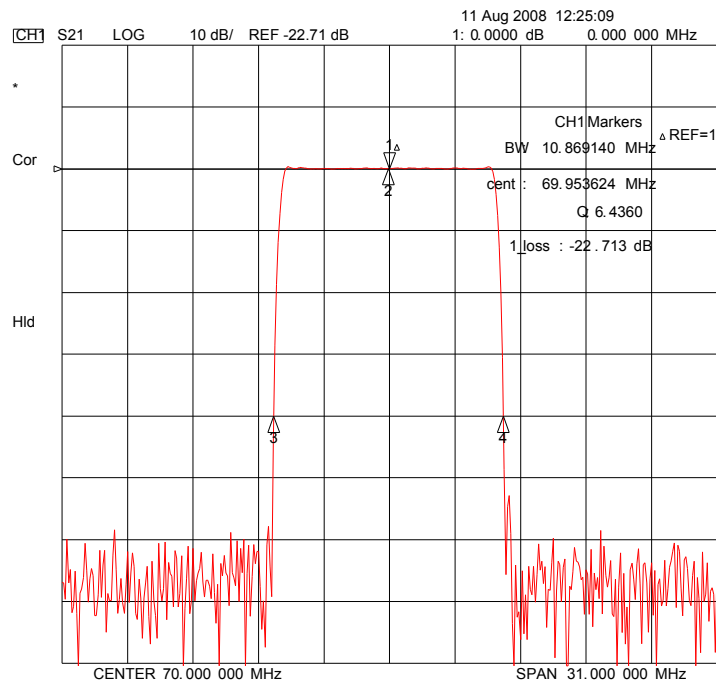
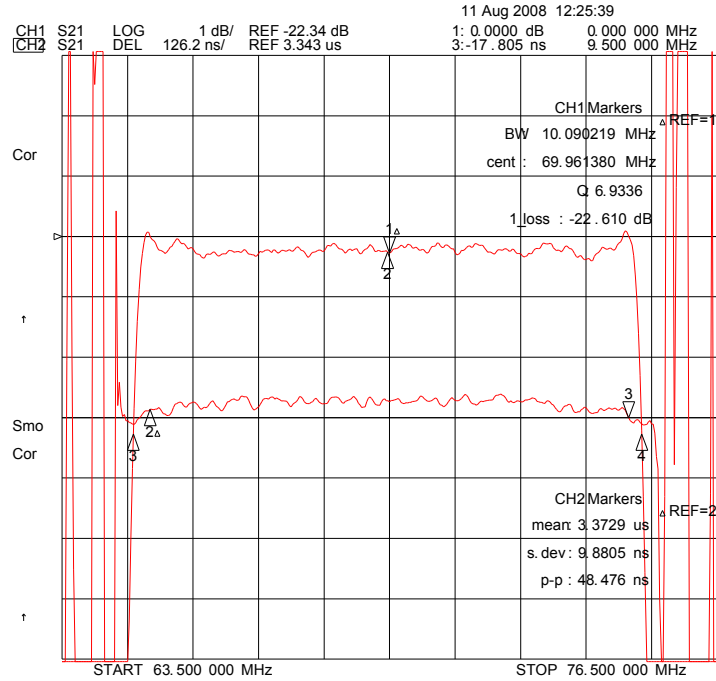
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 2dB-Bandwidth


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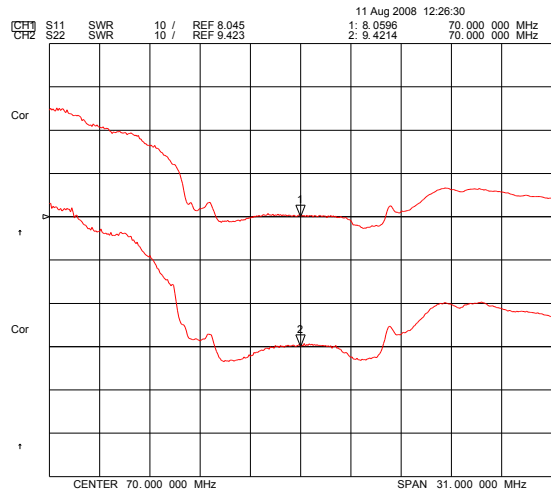
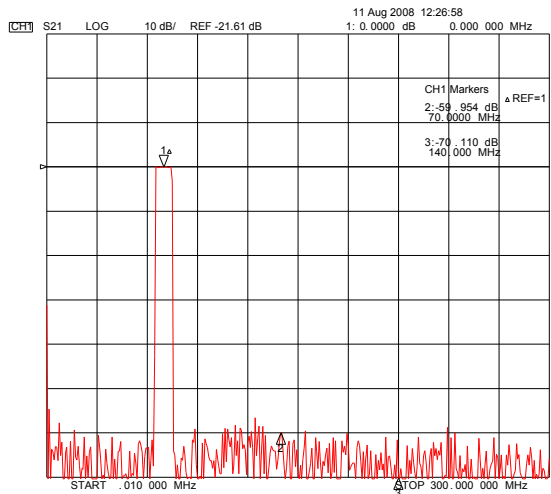
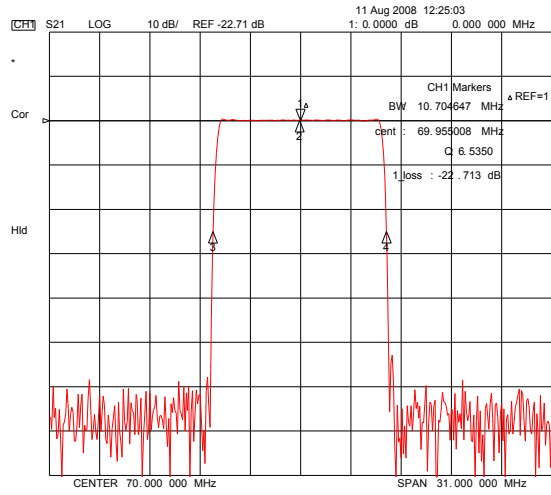
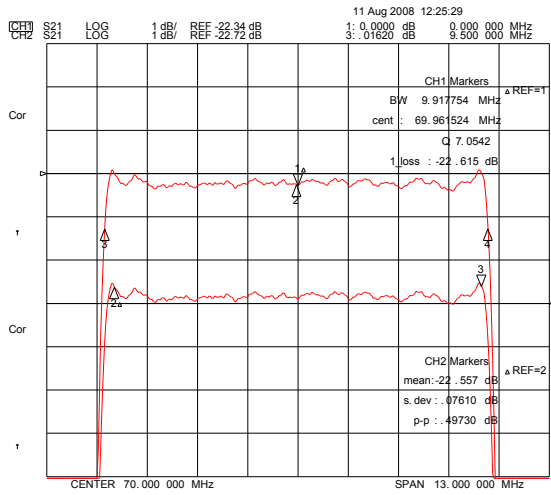



## 6. Typical Performance ( at +25°C )



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