

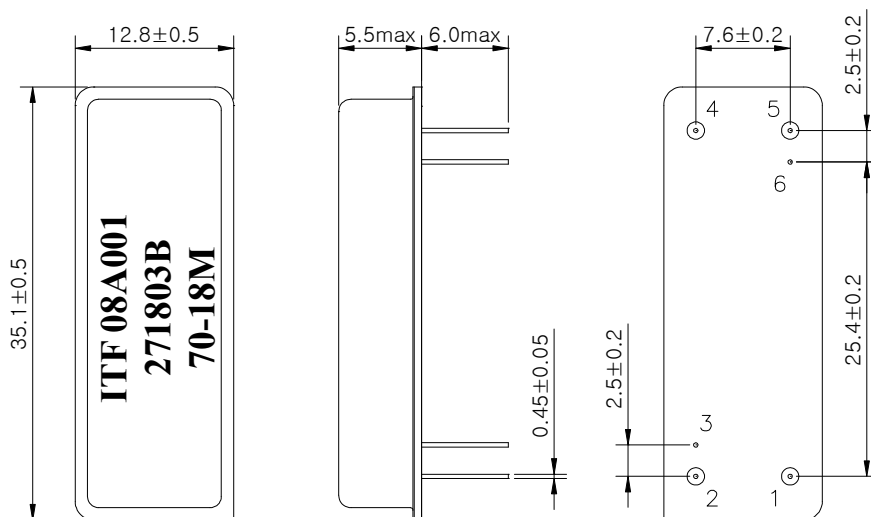
# SAW Bandpass Filter 271803B



## 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

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## 3. Specifications

F<sub>o</sub> = 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	-	26.5	28.0
1dB Bandwidth	MHz	18.0	18.12	-
3dB Bandwidth	MHz	-	18.30	-
35dB Bandwidth	MHz	-	18.92	19.0
40dB Bandwidth	MHz	-	18.96	-
Amplitude Ripple (f <sub>o</sub> ±9.0 MHz)	dB	-	0.55	1.0
Group Delay Variation (f <sub>o</sub> ±9.0 MHz)	nsec	-	60	120
Absolute Delay	usec	-	3.73	-
Ultimate Rejection	dB	45	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

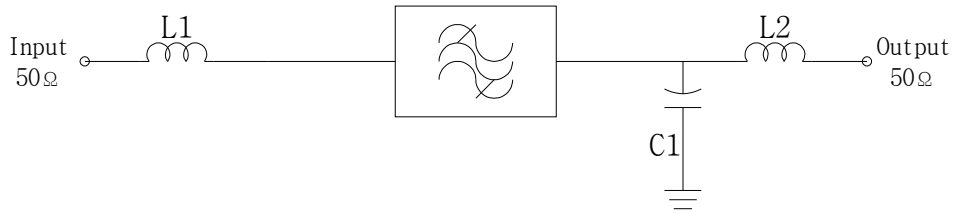
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## 4. Matching Schematic

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



**L1 = 82nH, L2 = 82nH**

**C1 = 2.5pF**

## 5. Marking Configuration

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

271803B<sup>3)</sup>

70<sup>4)</sup> -18M<sup>5)</sup>


1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

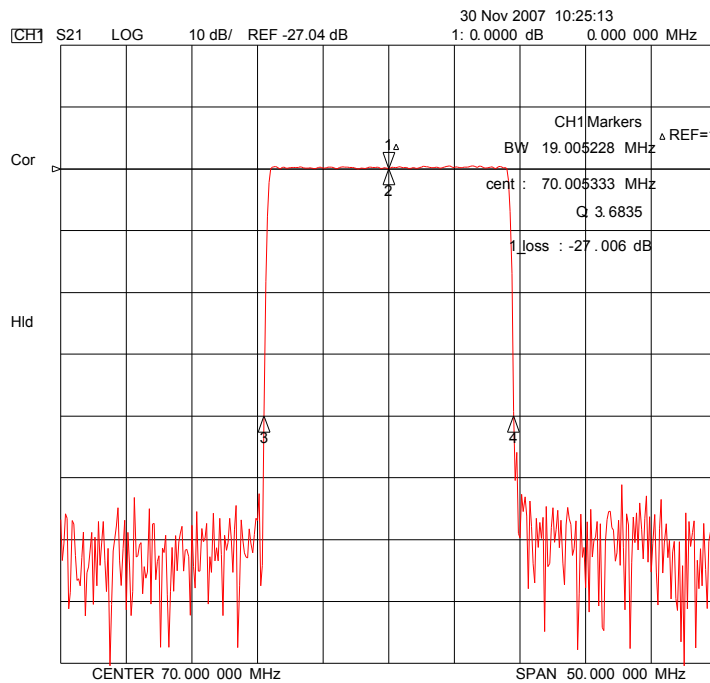
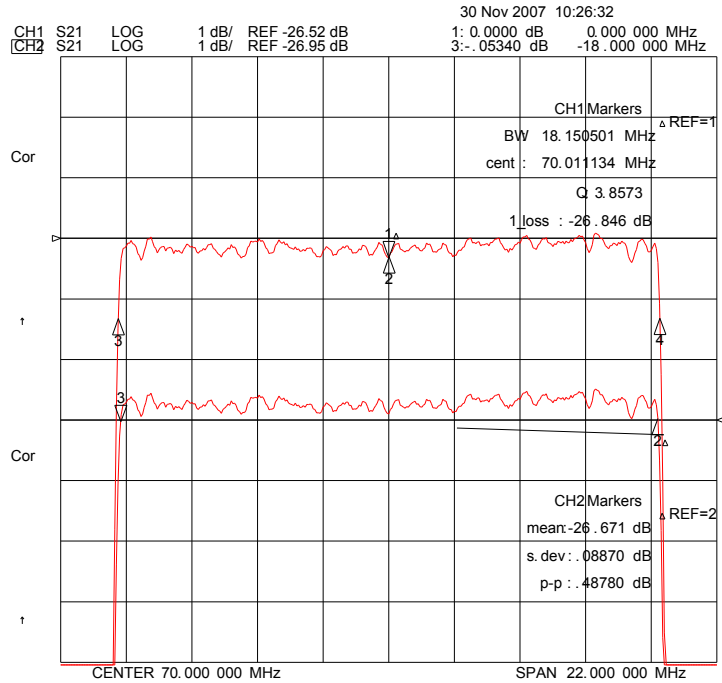
5) 1dB-Bandwidth


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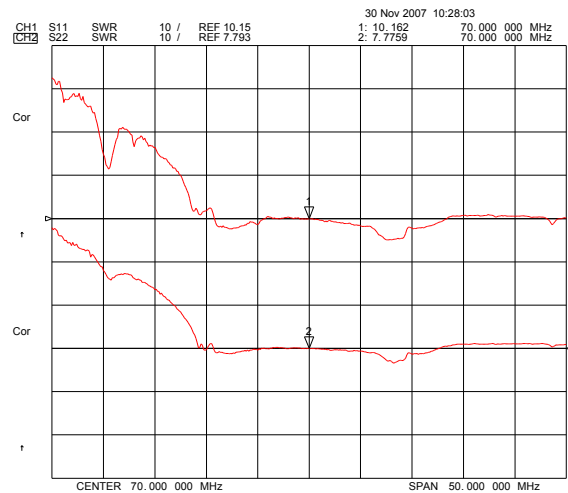
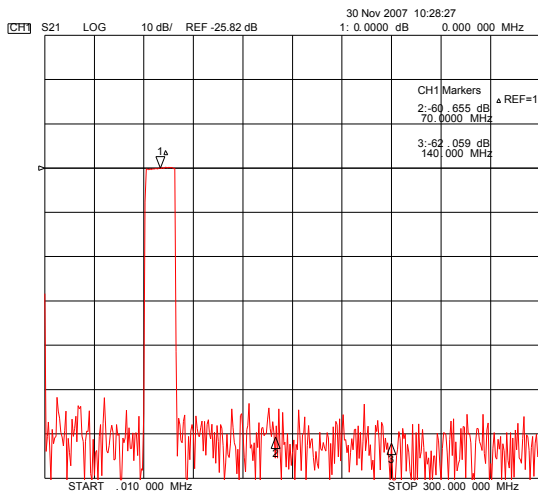
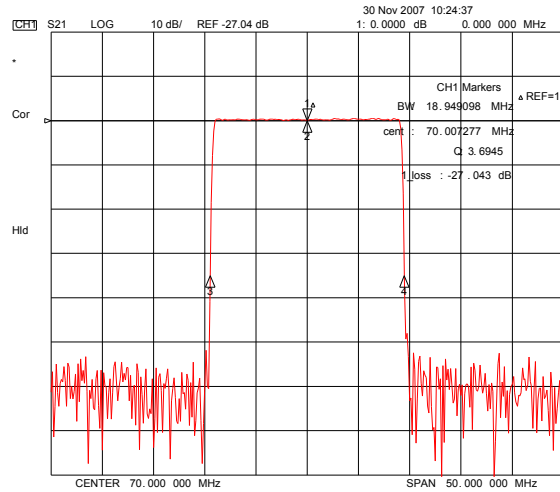
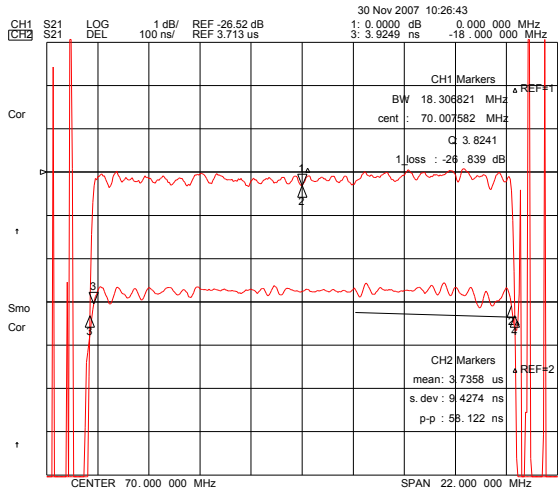


## 6. Typical Performance ( at +25°C )



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