

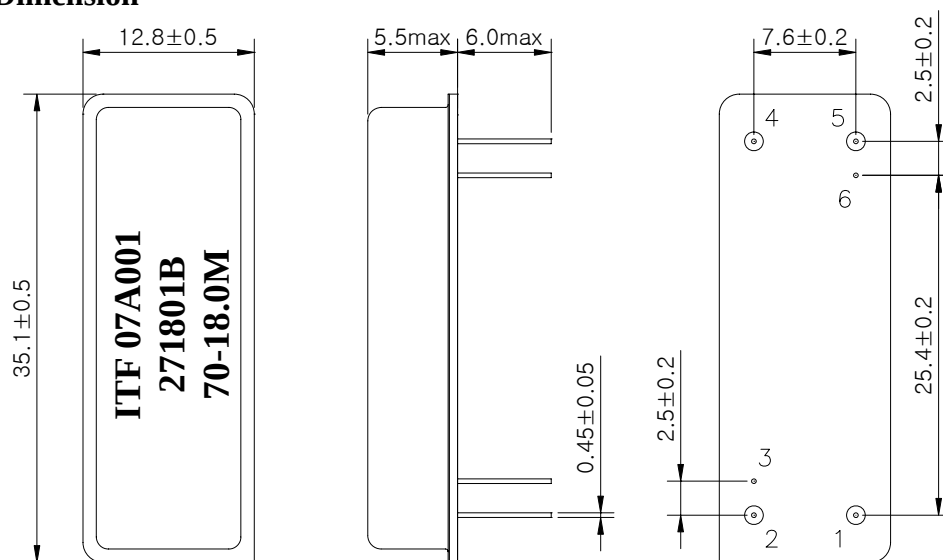
SAW Bandpass Filter 271801B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- SMD Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- 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

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	-	26.2	27.5
1dB Bandwidth	MHz	18.1	18.2	-
3dB Bandwidth	MHz	-	18.35	-
40dB Bandwidth	MHz	-	18.97	19.02
Amplitude Ripple (Fo +/- 9.0 MHz)	dB	-	0.56	1.0
Group Delay Variation (Fo +/- 9.0 MHz)	nsec	-	65	120
Absolute Delay	usec	-	3.44	-
Ultimate Rejection	dB	45	50	-
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

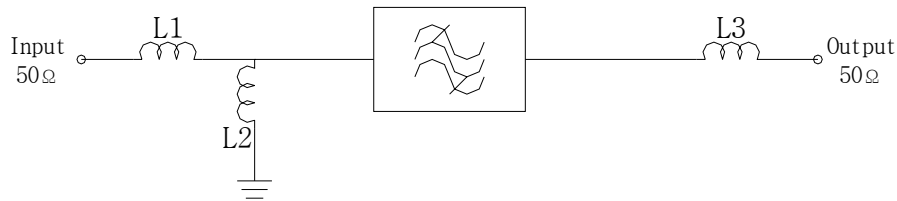
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4. Matching Schematic

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



$L1 = 56\text{nH}$, $L2 = 270\text{nH}$, $L3 = 56\text{nH}$

5. Marking Configuration

ITF¹⁾ 07A001²⁾

271801B³⁾

70⁴⁾-18.0M⁵⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center frequency

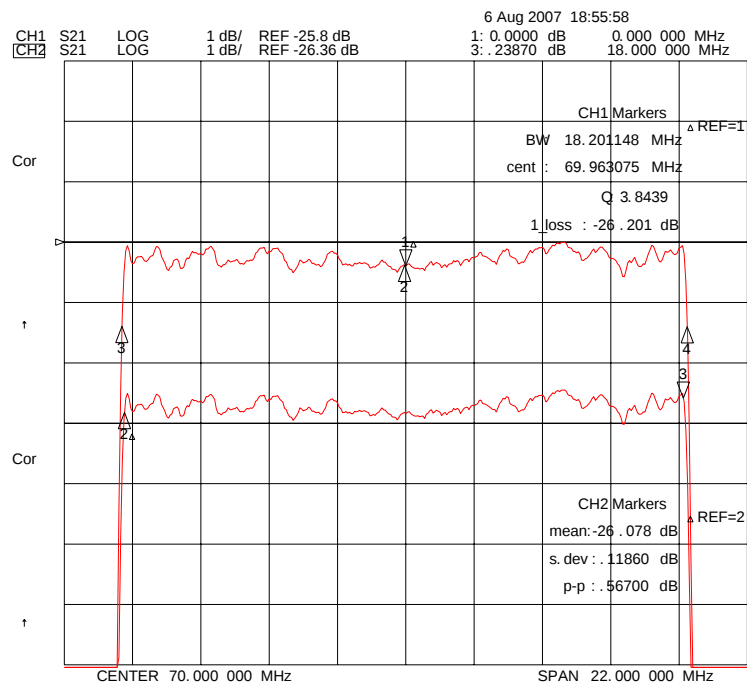
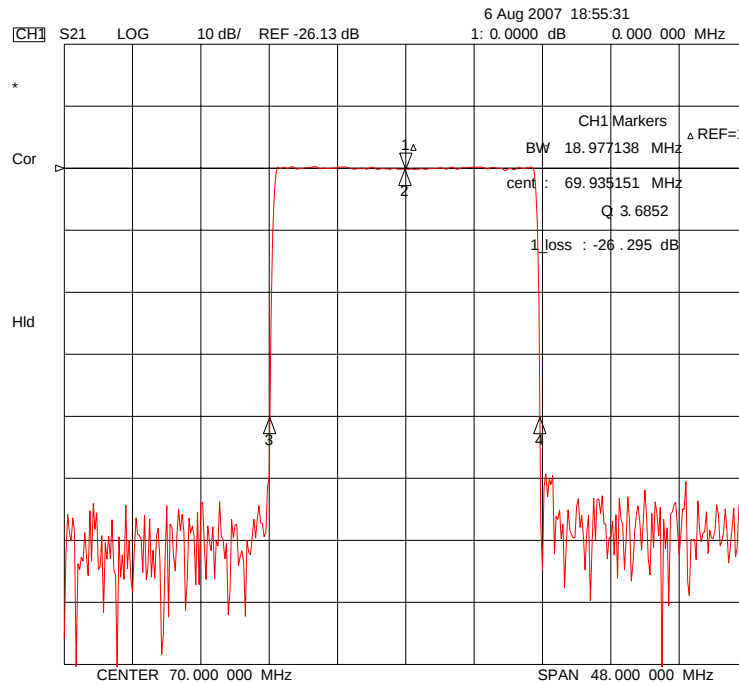
5) Pass-Bandwidth

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6. Typical Performance (at +25℃)



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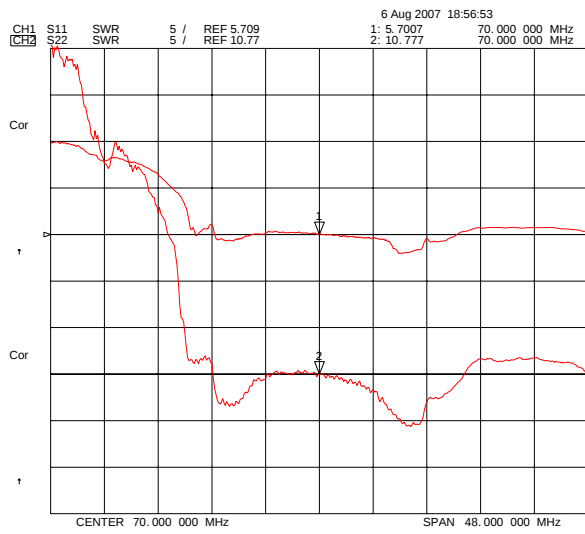
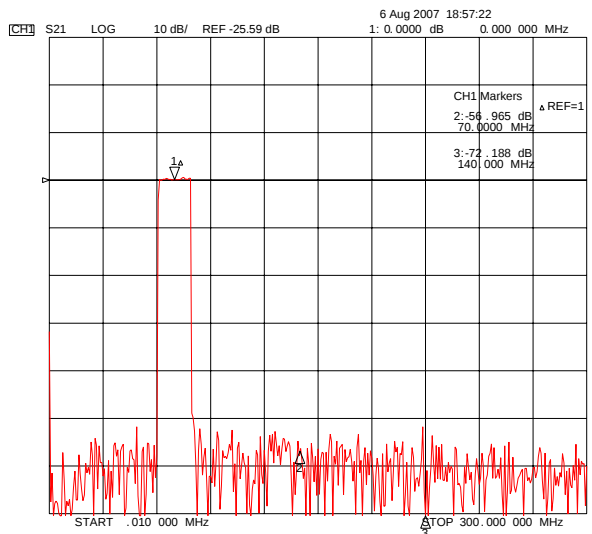
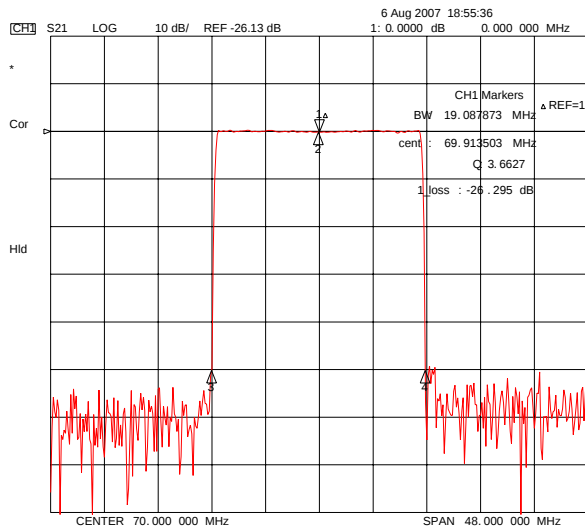
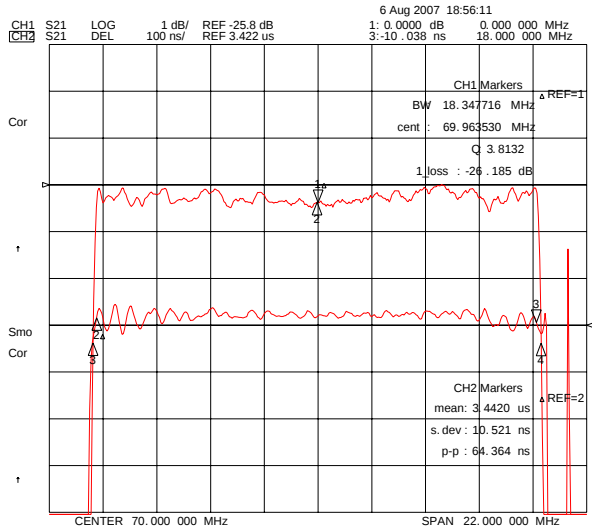
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