

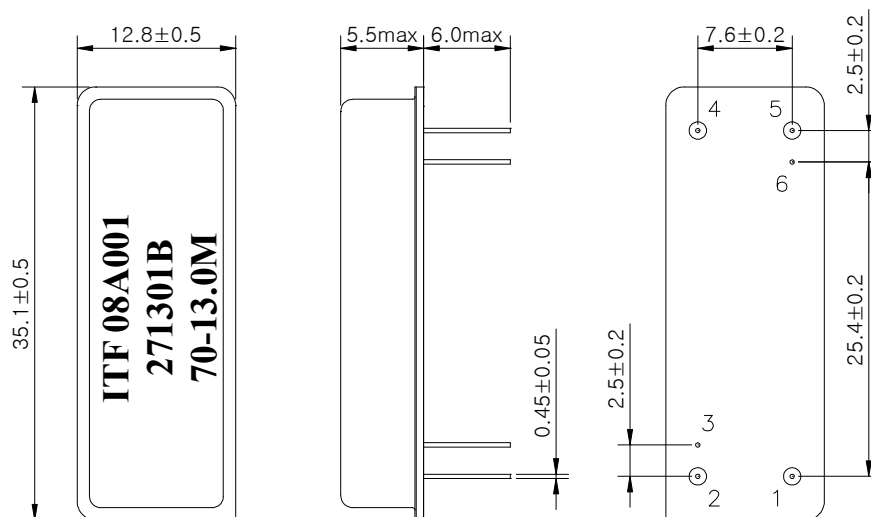
SAW Bandpass Filter 271301B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- DIP 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

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271301B
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3. Specifications

$F_0 = 70.0 \text{ MHz}$

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	-	25.5	27.0
1dB Bandwidth	MHz	12.9	12.96	-
3dB Bandwidth	MHz	-	13,14	-
40dB Bandwidth	MHz	-	13.92	-
Amplitude Ripple ($f_0 \pm 6.3 \text{ MHz}$)	dB	-	0.6	1.0
Group Delay Variation ($f_0 \pm 6.3 \text{ MHz}$)	nsec	-	50	100
Absolute Delay	usec	-	3.24	-
Ultimate Rejection	dB	45	50	-
Out of band gain				
$F_0 \pm 6.5 \text{ MHz} \pm 400 \text{ kHz}$	dB	20	27	
$F_0 \pm 6.5 \text{ MHz} \pm 600 \text{ kHz}$	dB	25	50	
$F_0 \pm 6.5 \text{ MHz} \pm 1 \text{ MHz}$	dB	28	55	
$F_0 \pm 6.5 \text{ MHz} \pm 5 \text{ MHz}$	dB	40	55	
Temperature Coefficient of Frequency	ppm/ $^{\circ}\text{C}$	-	-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)



Un-matching required

5. Marking Configuration

ITF¹⁾ 08A001²⁾

271301B³⁾

70⁴⁾ -13.0M⁵⁾

1) Manufacturer name

2) Lot Number

3) Part Number

4) Center Frequency

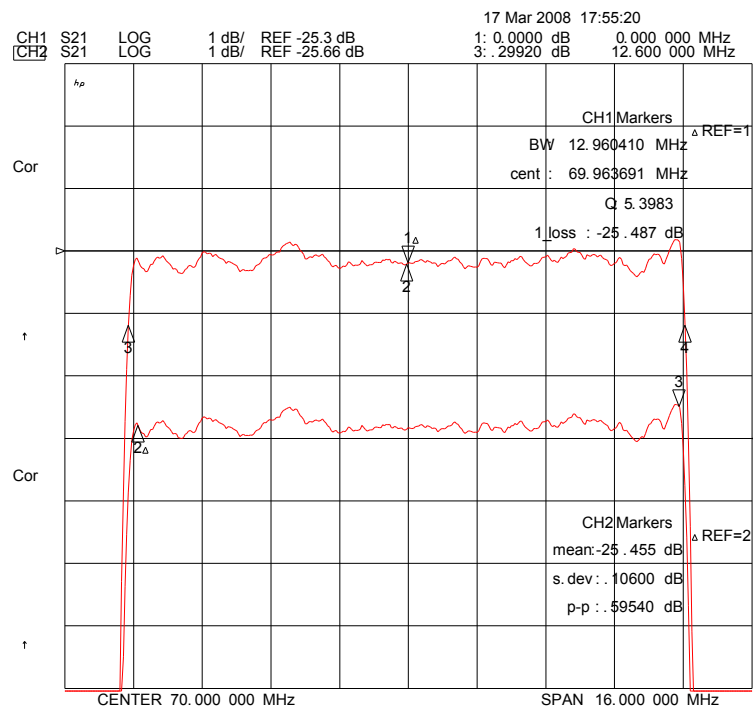
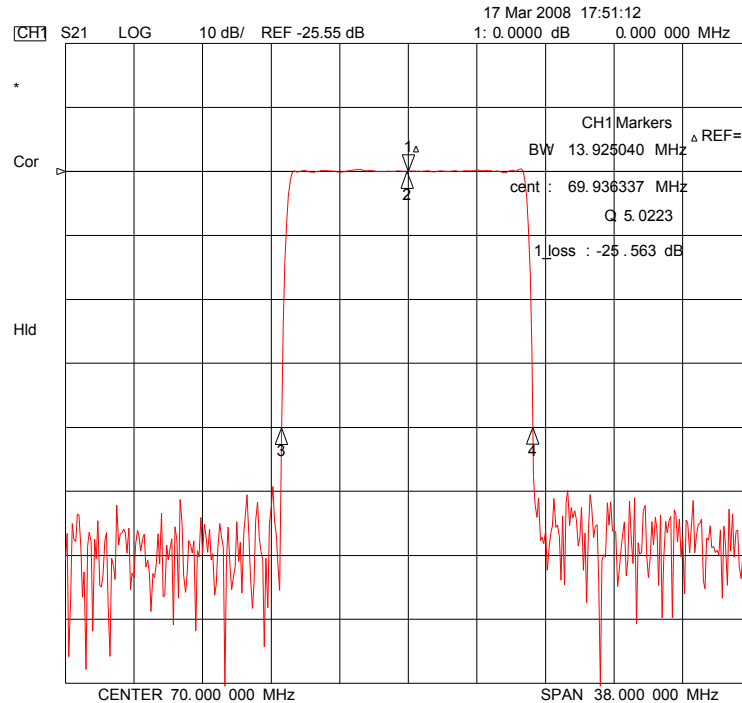
5) 1dB-Bandwidth

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6. Typical Performance (at +25°C)



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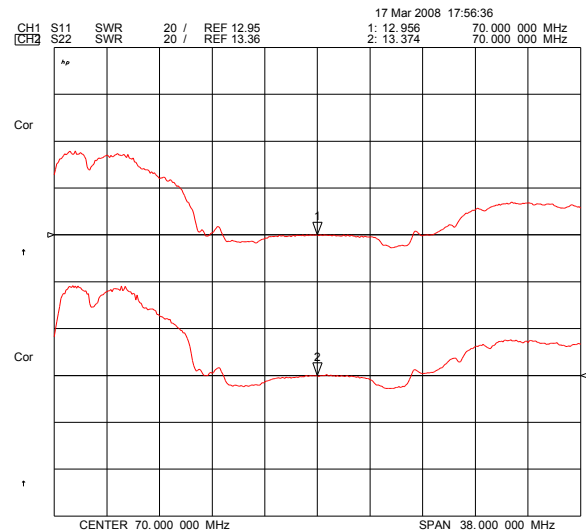
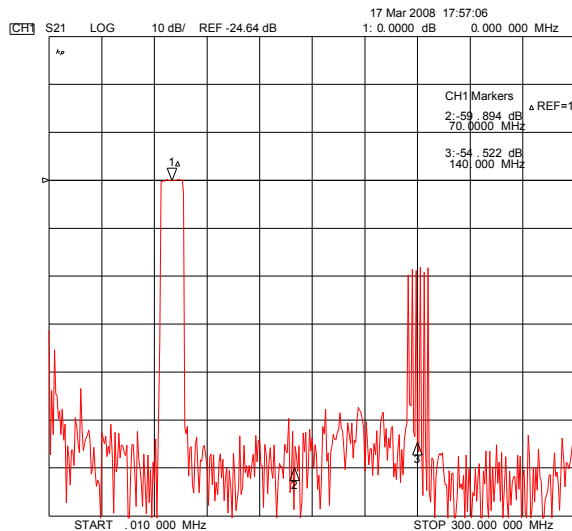
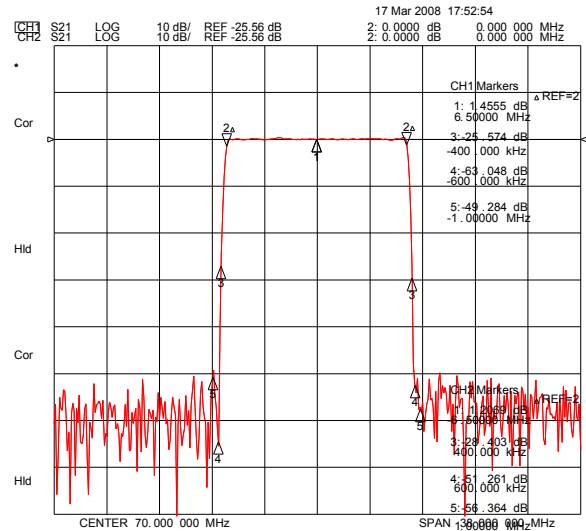
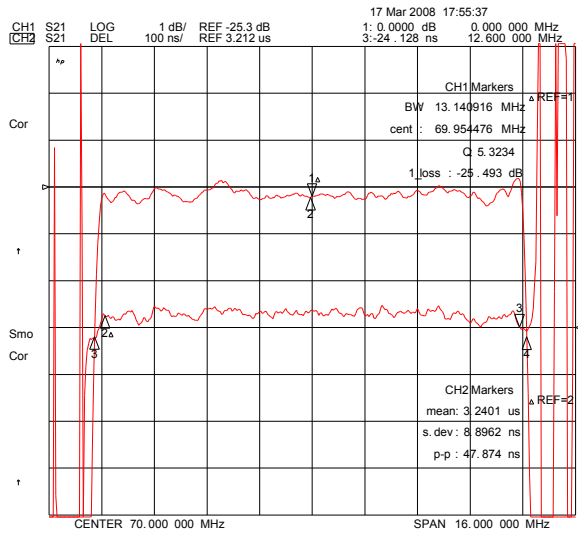
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