

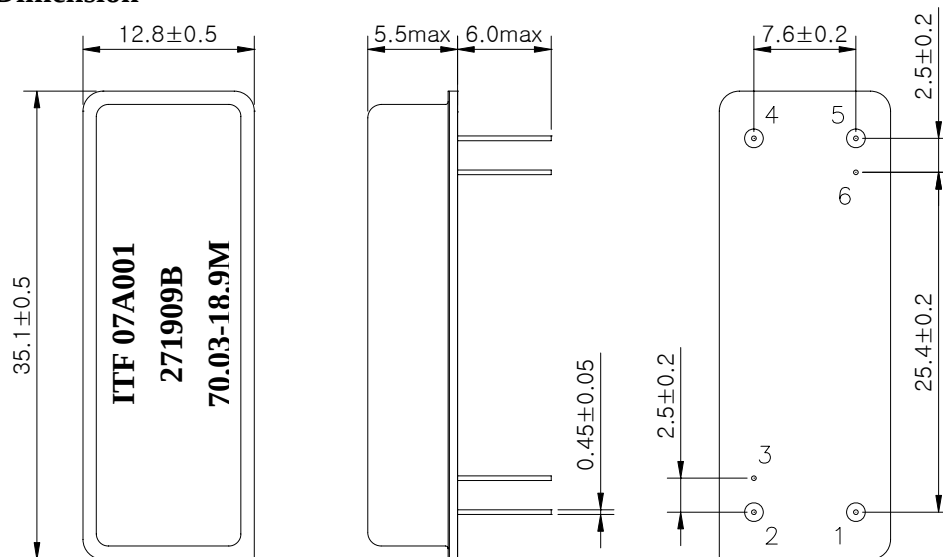
SAW Bandpass Filter 271909B



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

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271909B	
		Rev. Date	2007-03-22	
		Rev.	NM7029-CS01	1/5

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3. Specifications

Fo = 70.03 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	70.03	-
Insertion Loss	dB	-	24.4	26.0
1dB Bandwidth	MHz	-	18.96	-
3dB Bandwidth	MHz	19.1	19.16	-
50dB Bandwidth	MHz	-	20.1	20.2
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	50	100
Absolute Delay	usec	-	3.34	-
Ultimate Rejection	dB	50	55	-
Relative Attenuation				
Fo +/- 10MHz	dB	25	37	
	dB	(30)		
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

* ()안의 Value는 KTF 3G 소형에 한함

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

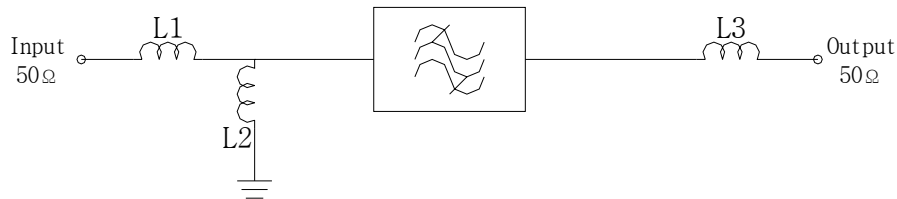
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4. Matching Schematic

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



$L1 = 82\text{nH}$, $L2 = 390\text{nH}$, $L3 = 82\text{nH}$

5. Marking Configuration

ITF¹⁾07A001²⁾
271909B³⁾
70.03⁴⁾-18.9M⁵⁾

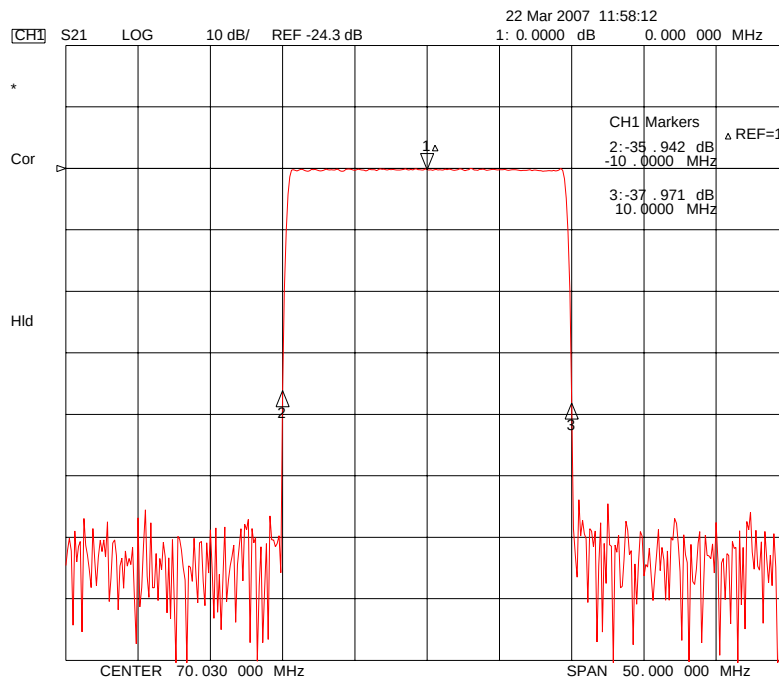
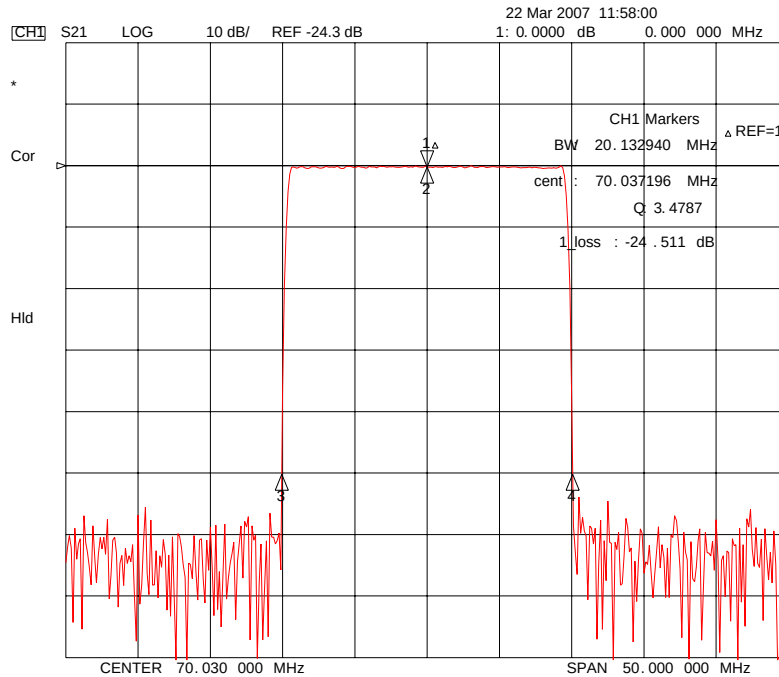
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number
- 4) Center Frequency
- 5) 1dB-Bandwidth

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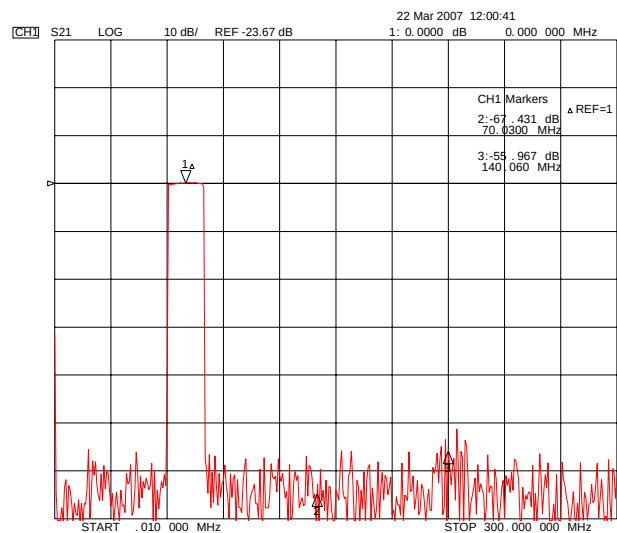
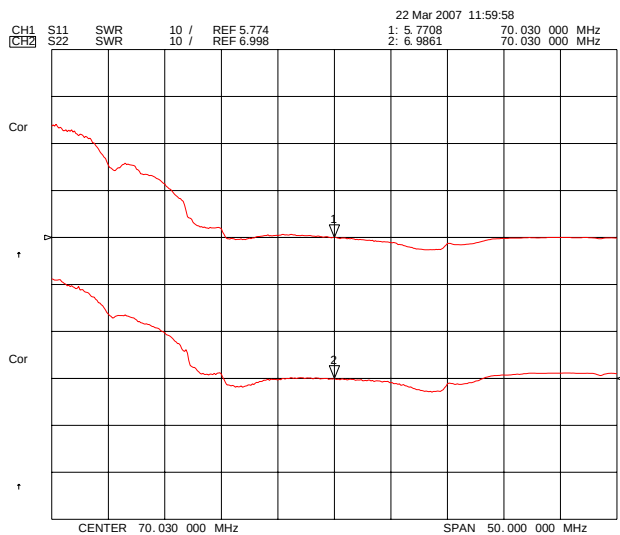
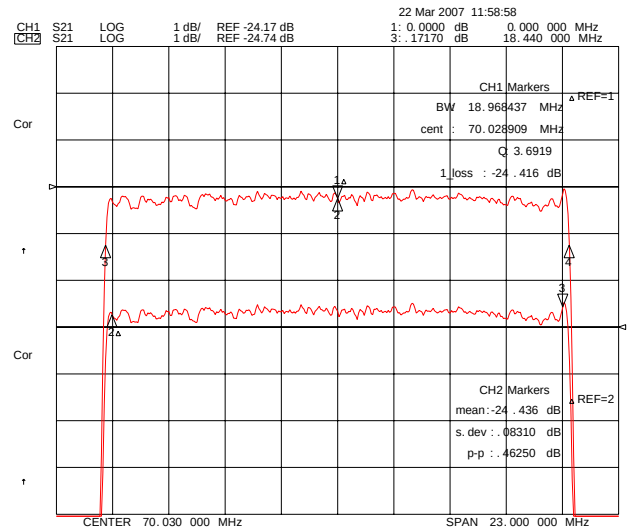
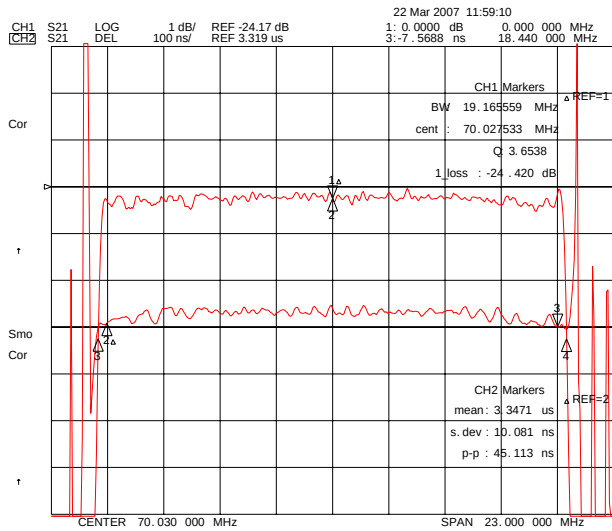


6. Typical Performance (at +25 °C)



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