

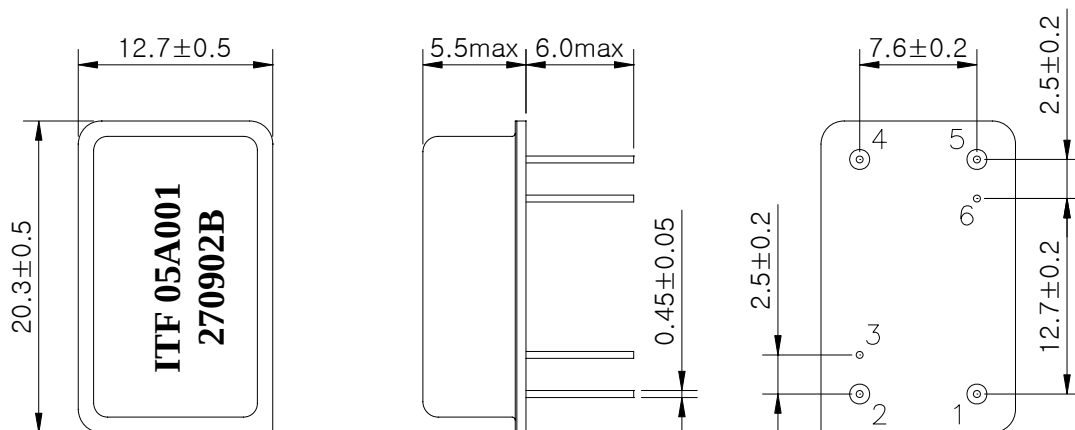
SAW Bandpass Filter 270902B



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 : D2012

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.	270902B	
		Rev. Date	2005-06-22	
		Rev.	NM5018-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	69.95	70.0	70.05
Insertion Loss	dB	-	22.0	24.0
1dB Bandwidth	MHz	-	8.96	-
3dB Bandwidth	MHz	9.1	9.28	-
40dB Bandwidth	MHz	-	10.55	10.6
Amplitude Ripple (Fo +/- 4.3 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 4.3 MHz)	nsec	-	60	100
Absolute Delay	usec	-	2.34	-
Ultimate Rejection	dB	50	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

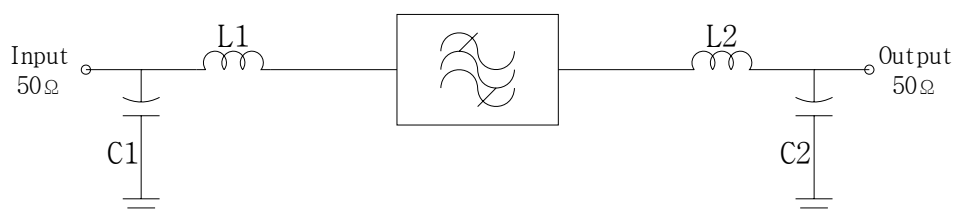
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4. Matching Schematic

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



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

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

5. Marking Configuration

ITF¹⁾ 05A001²⁾

270902B³⁾

1) Manufacturer name

2) Lot Number

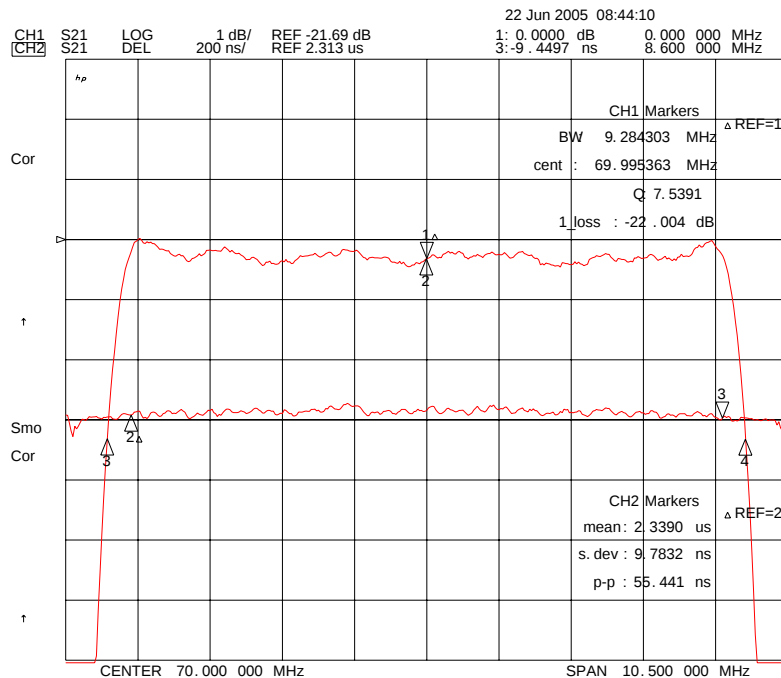
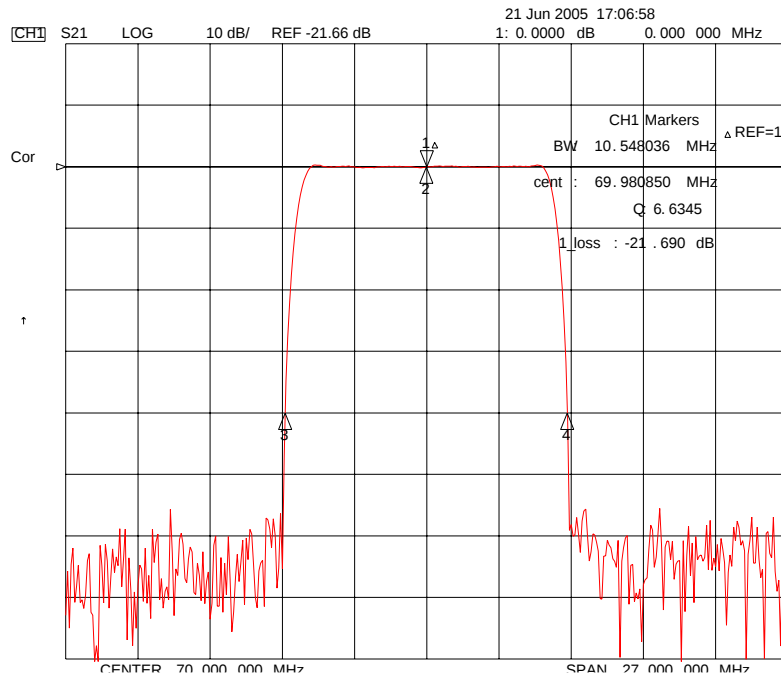
3) Part Number

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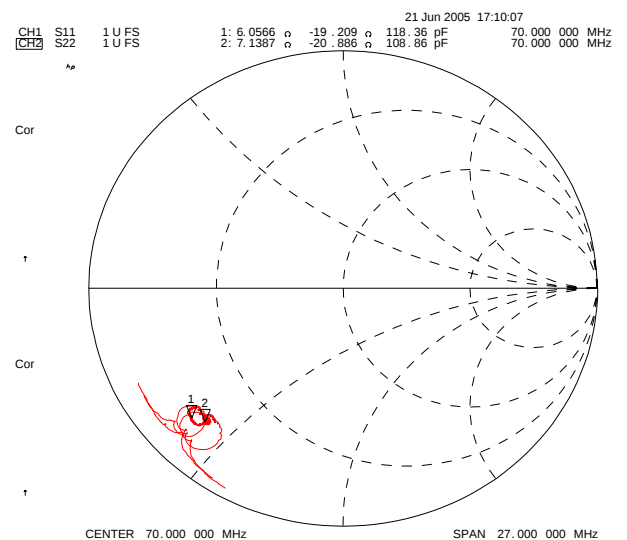
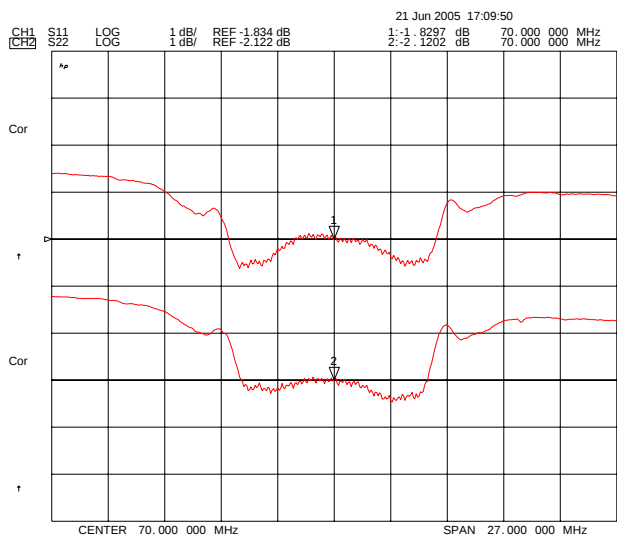
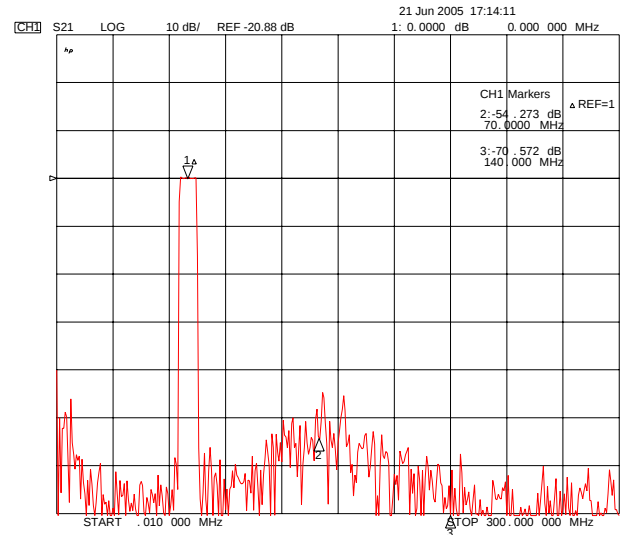
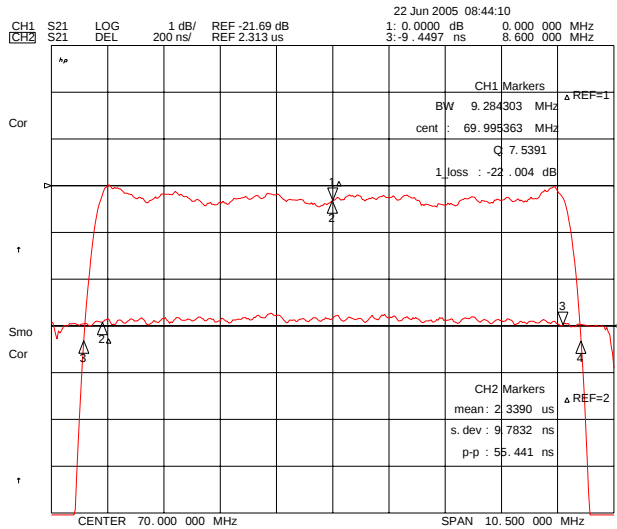


6. Typical Performance (at +25°C)



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