

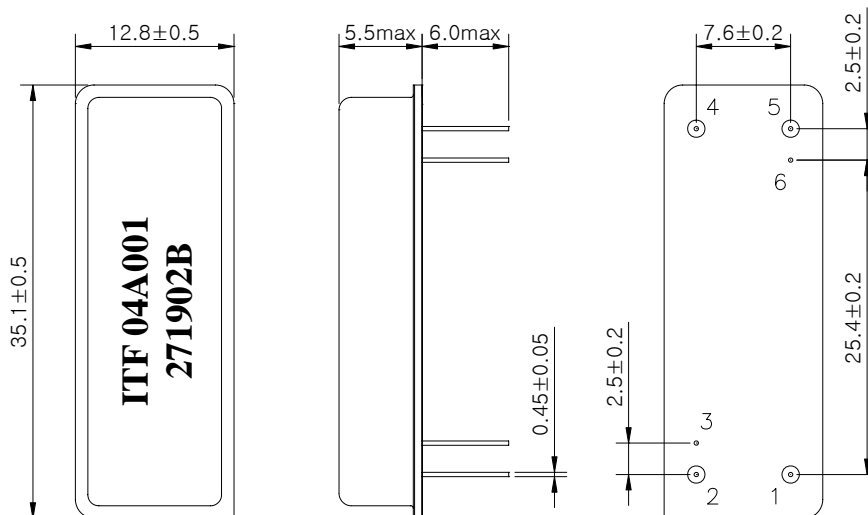
SAW Bandpass Filter 271902B



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



ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No.	271902B	
Rev. Date	2004-07-08	
Rev.	NM4020-CS02	1/5

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3. Specifications

Fo = 70.1 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	70.05	70.1	70.15
Insertion Loss	dB	-	24.5	25.5
1dB Bandwidth	MHz	-	19.0	-
3dB Bandwidth	MHz	19.1	19.2	-
50dB Bandwidth	MHz	-	20.2	20.5
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	100	150
Absolute Delay	usec	-	3.25	-
Relative Attenuation				
55.3 to 59.3 MHz	dB	50	55	-
59.3 to 60.1 MHz	dB	25	30	-
80.1 to 80.9 MHz	dB	25	30	-
80.9 to 84.9 MHz	dB	50	55	-
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

All attenuation measurements are measured relative to insertion loss

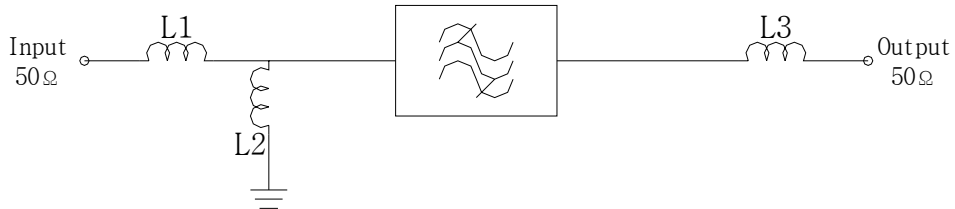
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4. Matching Schematic

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




L1 = 100 nH, L3 = 100 nH
L2 = 270 nH

5. Marking Configuration

ITF¹⁾04A001²⁾
271902B³⁾

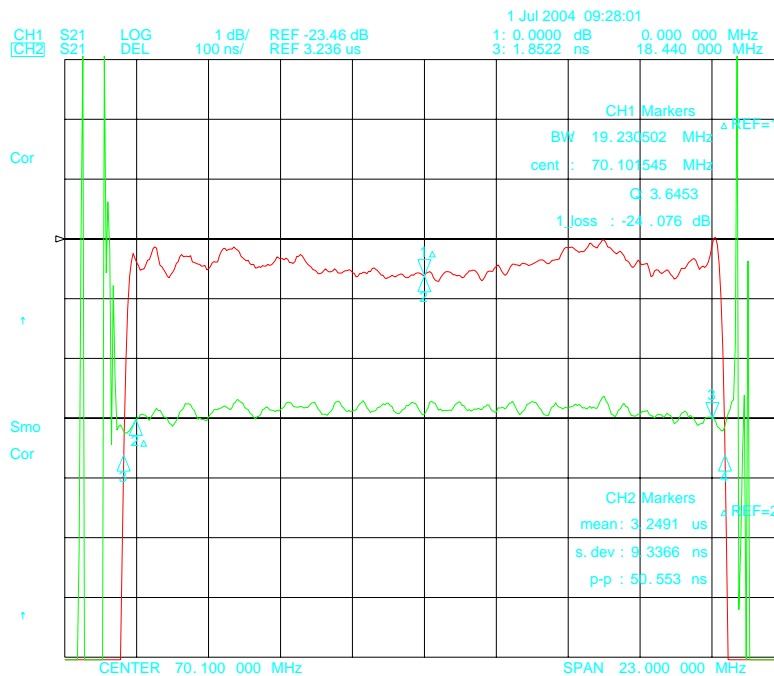
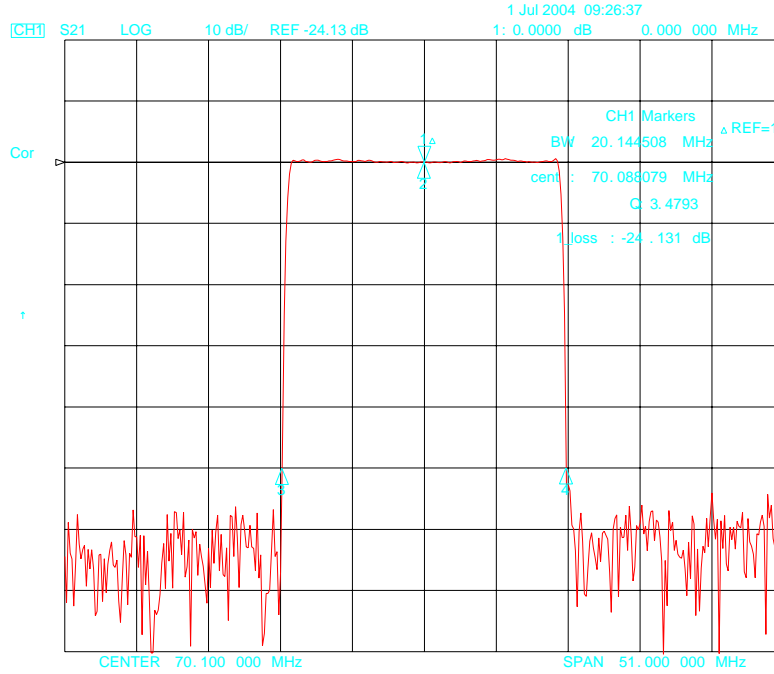
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	271902B	
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6. Typical Performance (at +25°C)



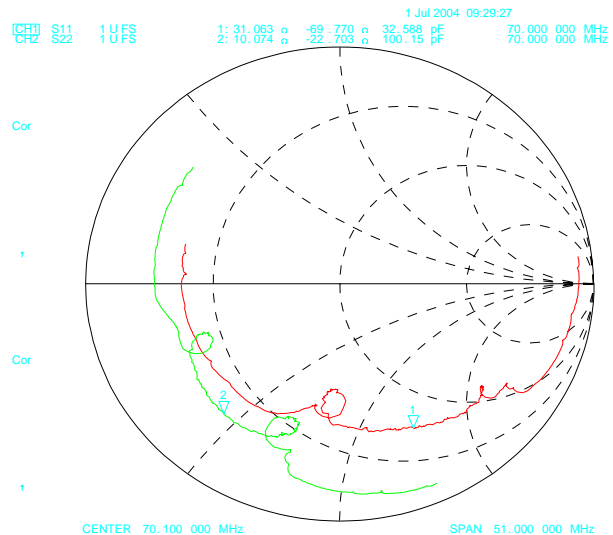
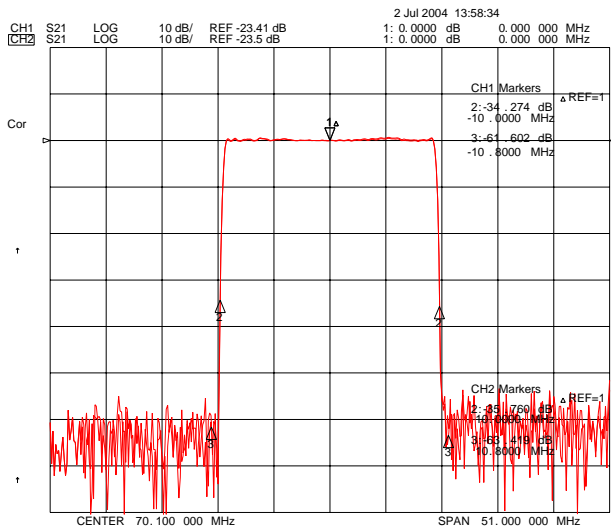
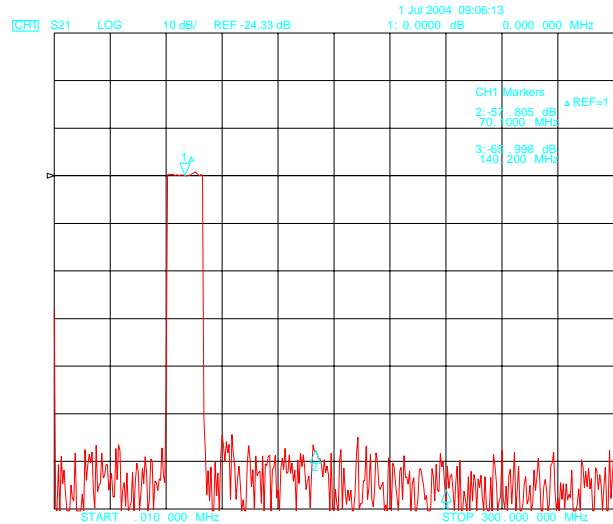
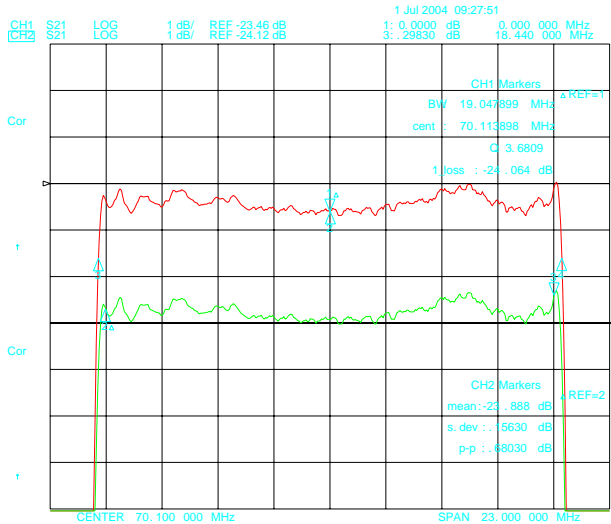
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