

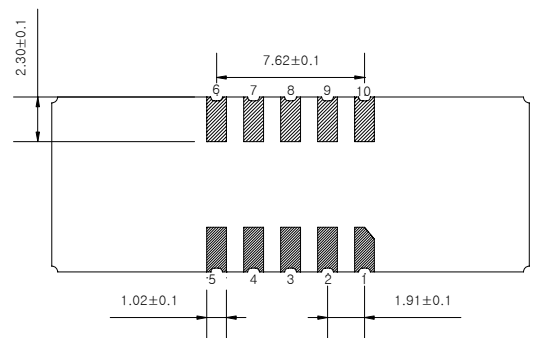
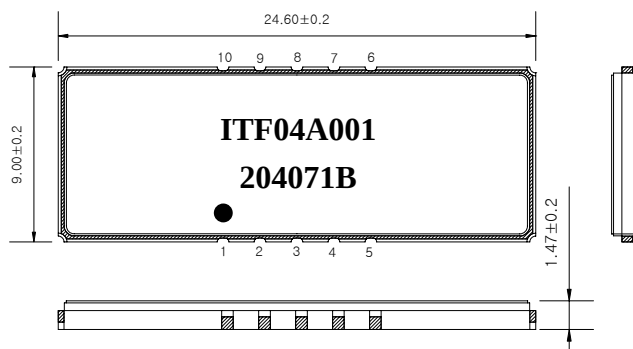
SAW Bandpass Filter 204071B



1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S2490

Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

Pad Configuration	
10	Input
5	Output
1, 6	Ground
Other	Case ground



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

Part No.	204071B	
Rev. Date	2004-04-02	
Rev.	NW3003-CS02	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	-	70.0	-
Insertion Loss	dB	-	10.5	13.0
1dB Bandwidth	MHz	-	0.19	-
3dB Bandwidth	MHz	0.25	0.33	-
40dB Bandwidth	MHz	-	1.06	1.2
Amplitude Ripple (Fo +/- 0.05 MHz)	dB	-	0.4	1.0
Group Delay Variation (Fo +/- 0.05 MHz)	nsec	-	100	300
Absolute Delay	usec	-	3.05	-
Ultimate Rejection	dB	47	55	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

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

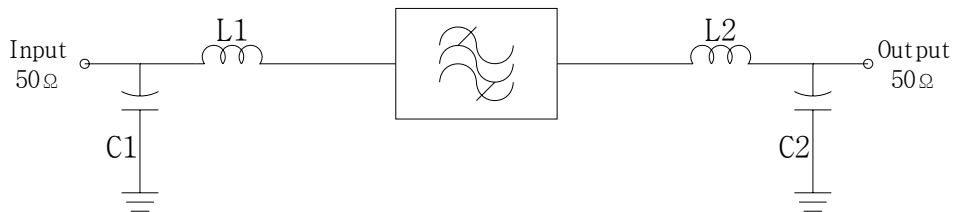
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	204071B	
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4. Matching Schematic

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



L1 = 220 nH,

L2 = 220 nH

C1 = 82 pF

C2 = 68 pF

5. Marking Configuration

ITF¹⁾ 04A001²⁾

204071B³⁾

● ⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

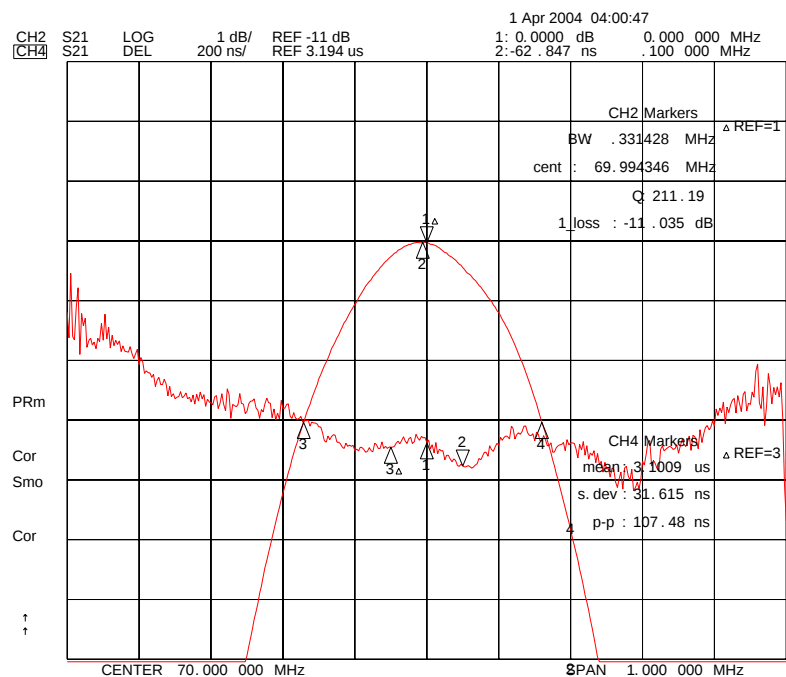
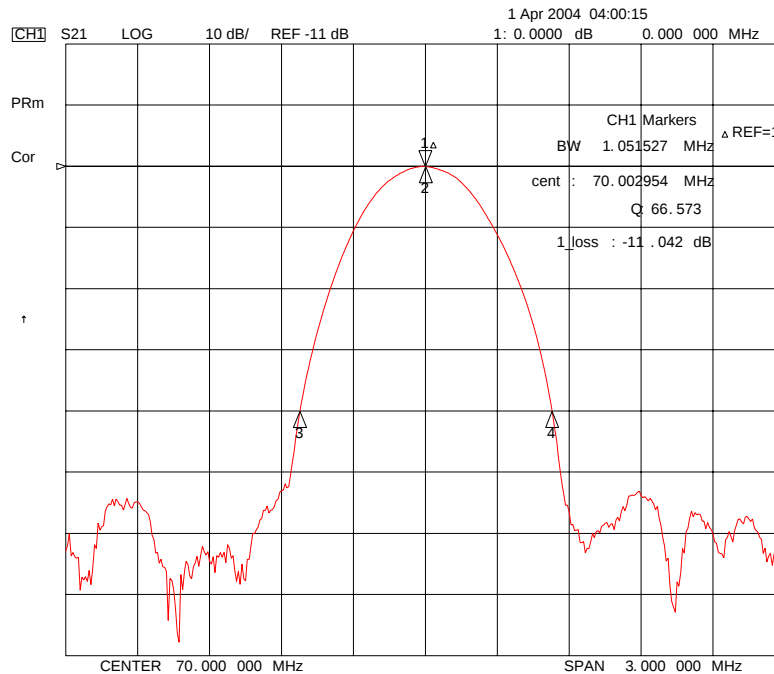
4) Pad Number 1 Index

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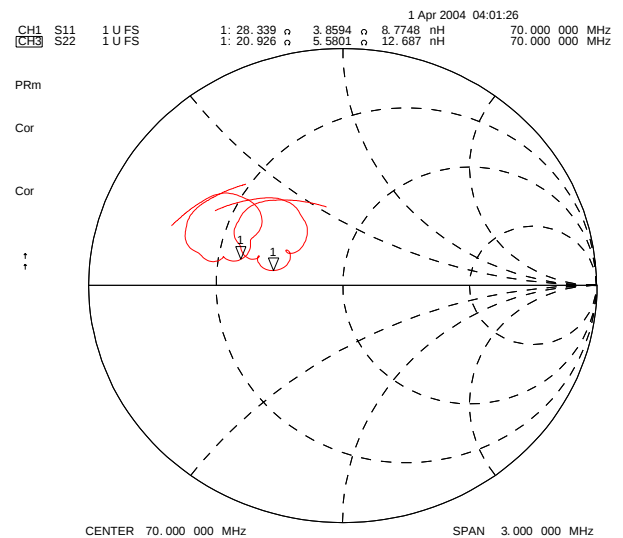
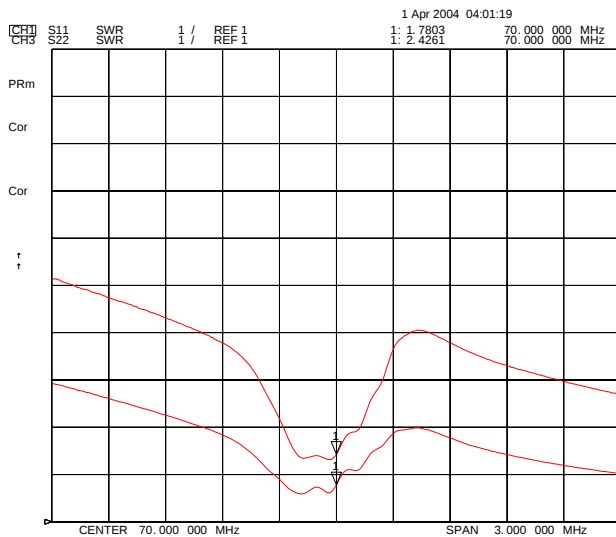
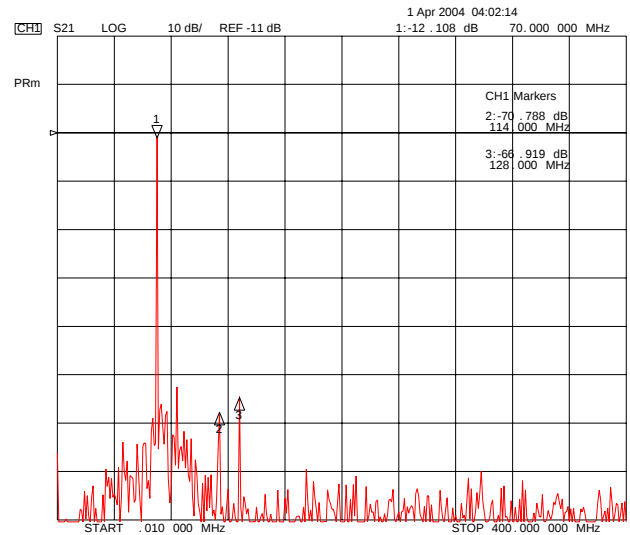
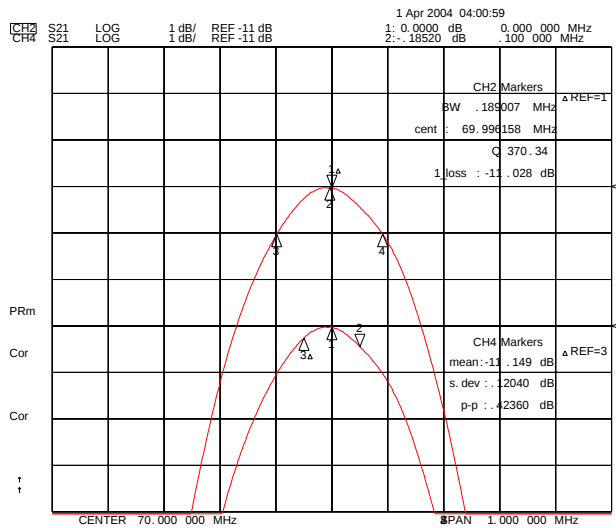


6. Typical Performance (at +25°C)



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