

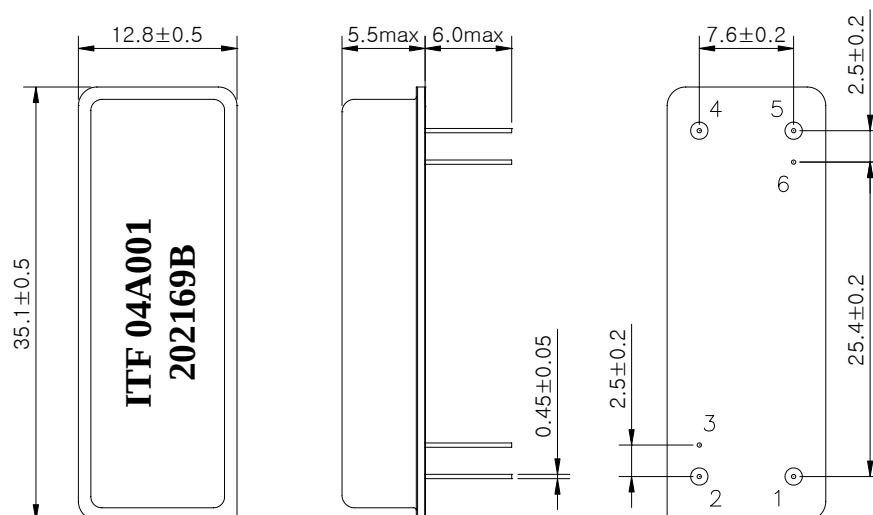
SAW Bandpass Filter 202169B



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.	202169B
			Rev. Date	2004-04-30
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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	-	24.5	26.0
1dB Bandwidth	MHz	-	5.7	-
3dB Bandwidth	MHz	6.0	6.08	-
40dB Bandwidth	MHz	-	7.12	7.2
Amplitude Ripple (Fo +/- 2.6 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 2.6 MHz)	nsec	-	80	150
Absolute Delay	usec	-	4.2	-
Ultimate Rejection	dB	50	53	-
Temperature Coefficient of Frequency	ppm/°C	-	-23	-

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

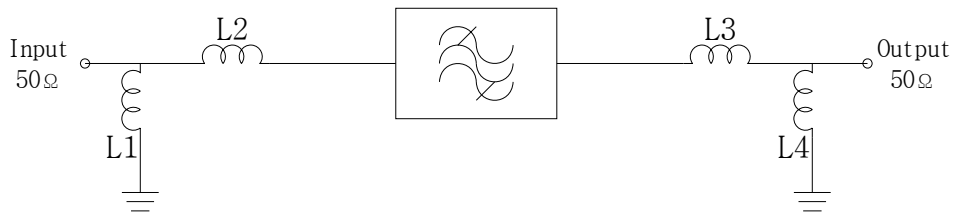
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4. Matching Schematic

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



$$\begin{aligned} L2 &= 82 \text{ nH}, & L3 &= 68 \text{ nH} \\ L1 &= L4 = 68 \text{ nH} \end{aligned}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾
202169B³⁾

1) Manufacturer name

2) Lot Number

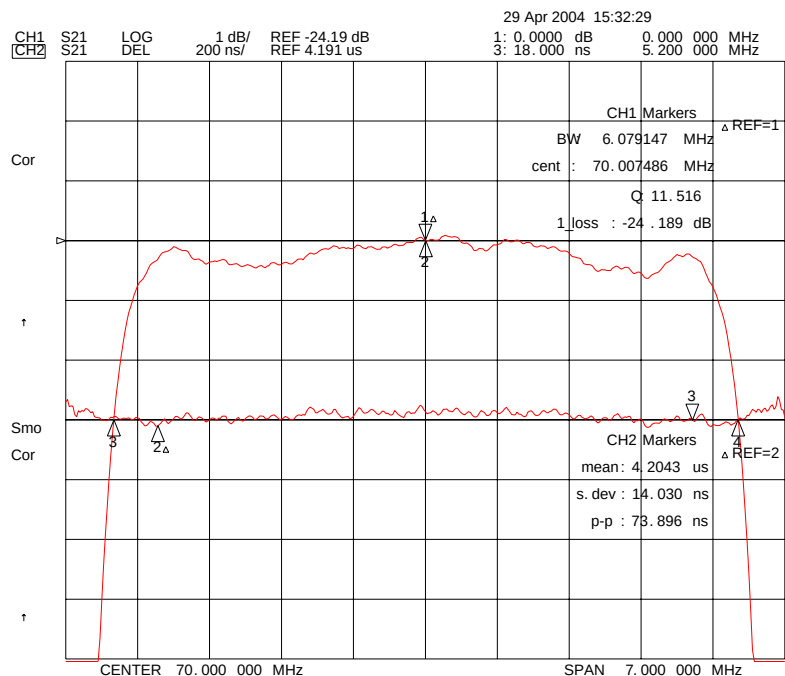
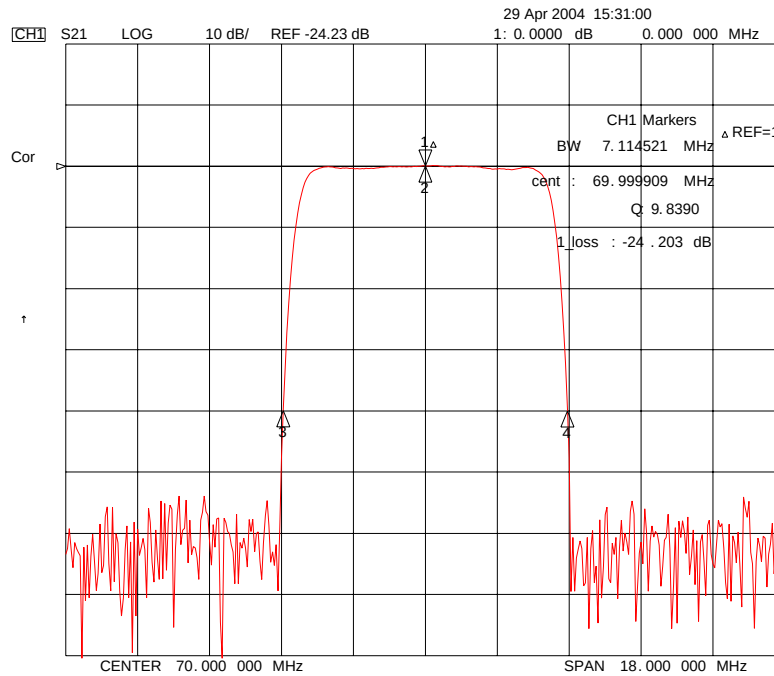
3) Part Number

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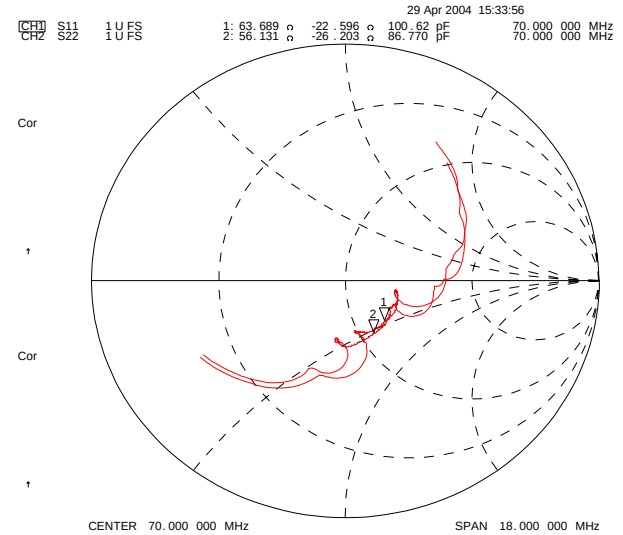
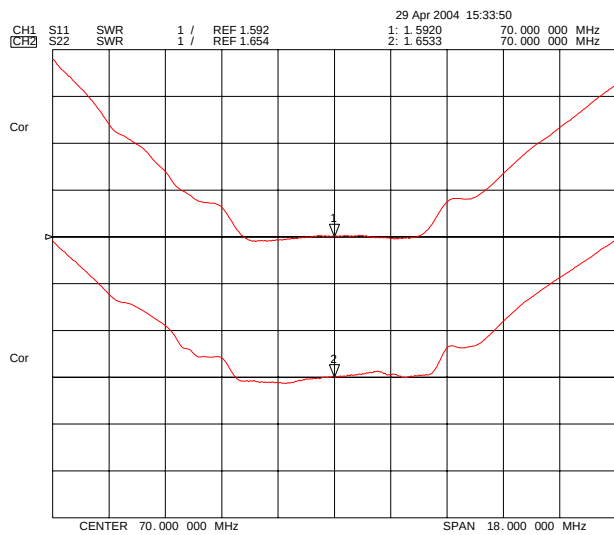
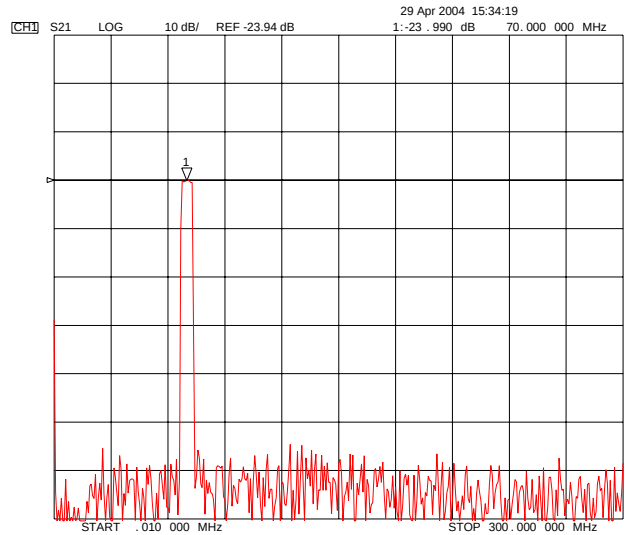
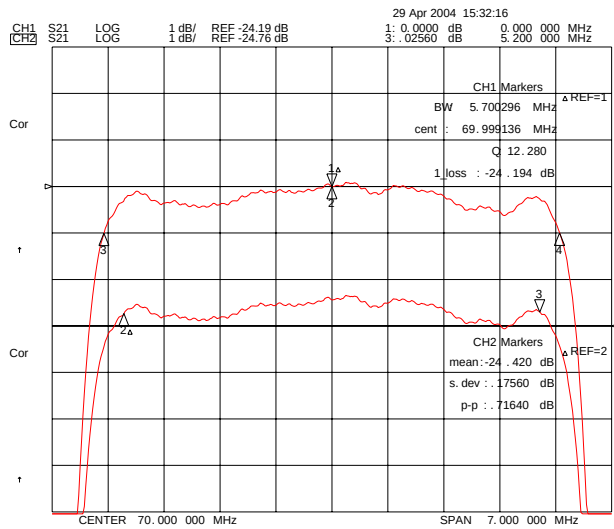


6. Typical Performance (at +25℃)



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