

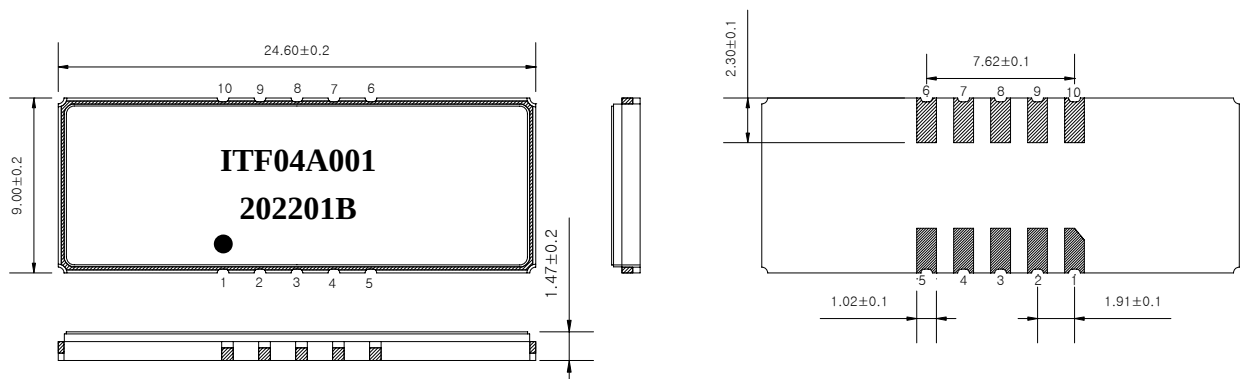
SAW Bandpass Filter 202201B



1. Features

- IF Bandpass Filter
- High-Attenuation
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S2490

Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating $0.3 \sim 1.0 \mu\text{m}$, Over a $1.27 \sim 8.89 \mu\text{m}$ Ni Plating

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

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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	-	22.5	24.0
1dB Bandwidth	MHz	-	9.25	-
3dB Bandwidth	MHz	9.5	9.55	-
40dB Bandwidth	MHz	-	10.84	10.9
Amplitude Ripple (Fo +/- 4.4 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 4.4 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.46	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C	-	-74	-

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

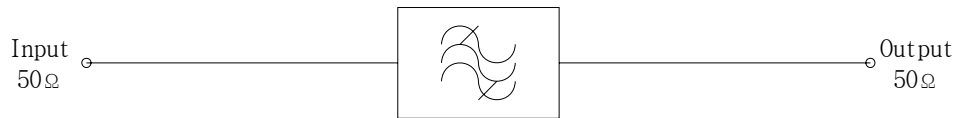
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4. Matching Schematic

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



5. Marking Configuration

ITF¹⁾ 04A001²⁾

202201B³⁾

●⁴⁾

1) Manufacturer name

2) Lot Number

3) Part Number

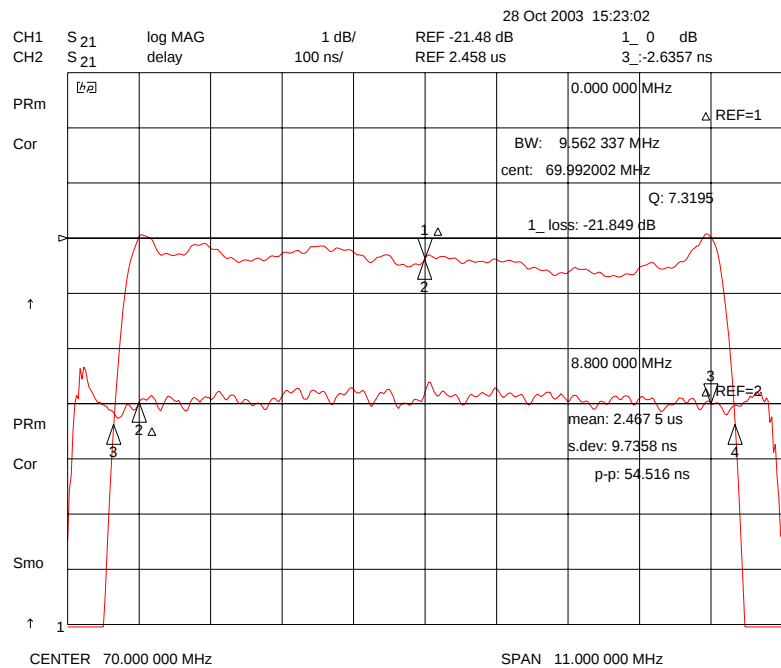
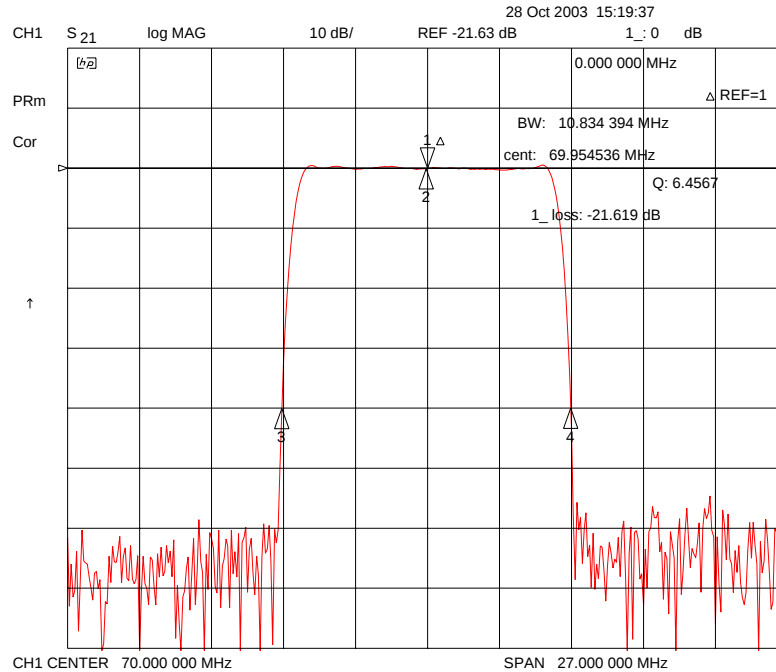
4) Pad Number 1 Index

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6. Typical Performance (at +25°C)



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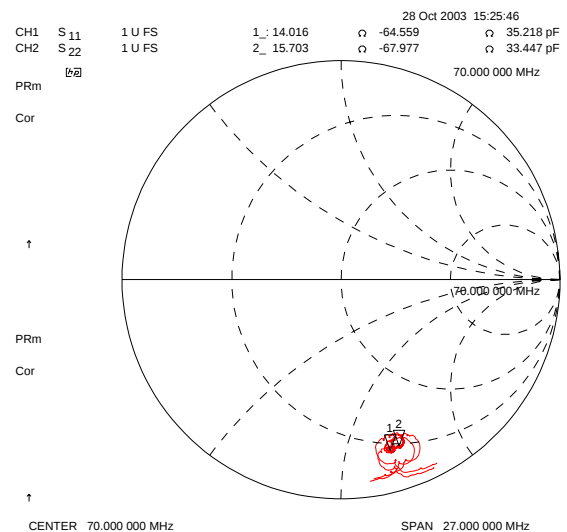
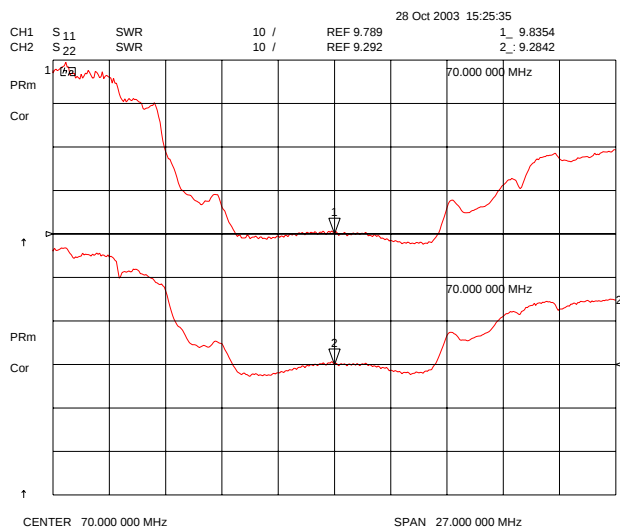
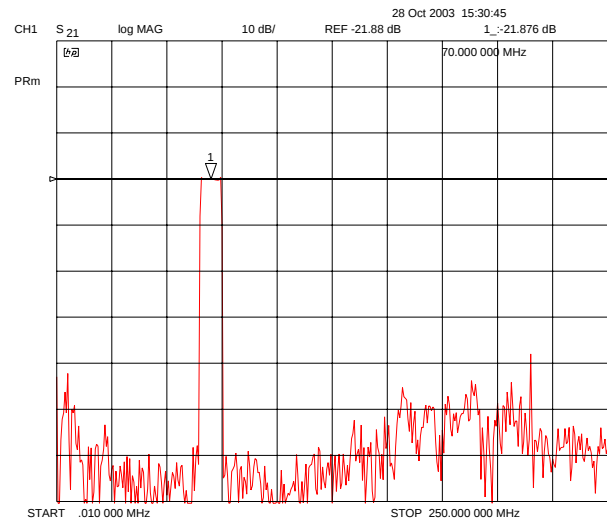
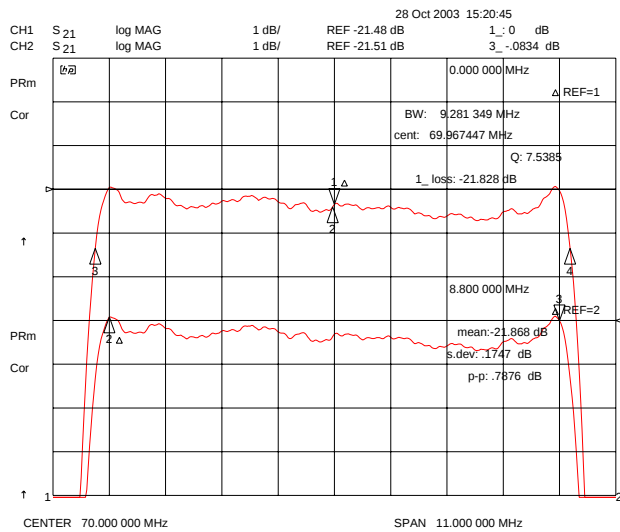
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