

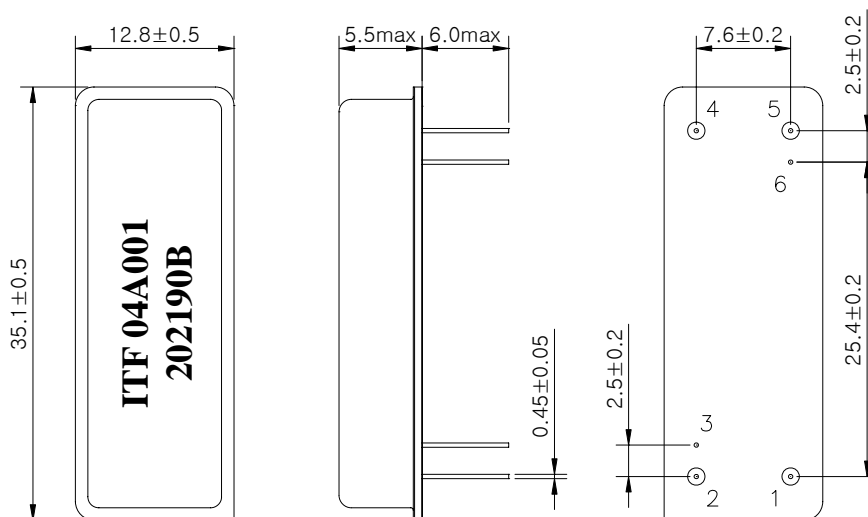
SAW Bandpass Filter 202190B



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.	202190B	
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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	-	23.0	25.0
1dB Bandwidth	MHz	9.2	9.3	-
3dB Bandwidth	MHz	9.5	9.53	-
40dB Bandwidth	MHz	-	10.55	10.6
Amplitude Ripple (Fo +/- 4.375 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 4.375 MHz)	nsec	-	50	100
Absolute Delay	usec	-	3.22	-
Ultimate Rejection	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
- 3) All attenuation measurements are measured relative to insertion loss

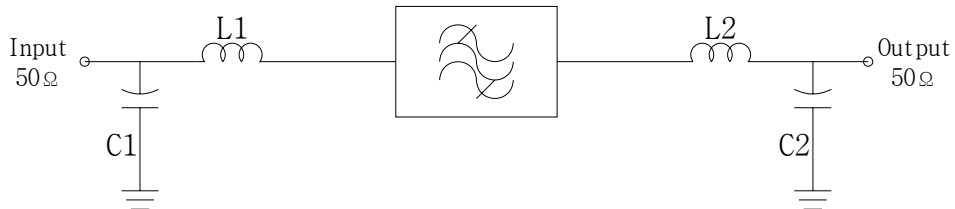
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4. Matching Schematic

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



$$L1 = L2 = 56 \text{ nH}$$

$$C1 = C2 = 56 \text{ pF}$$

5. Marking Configuration


ITF¹⁾ 04A001²⁾

202190B³⁾

1) Manufacturer name

2) Lot Number

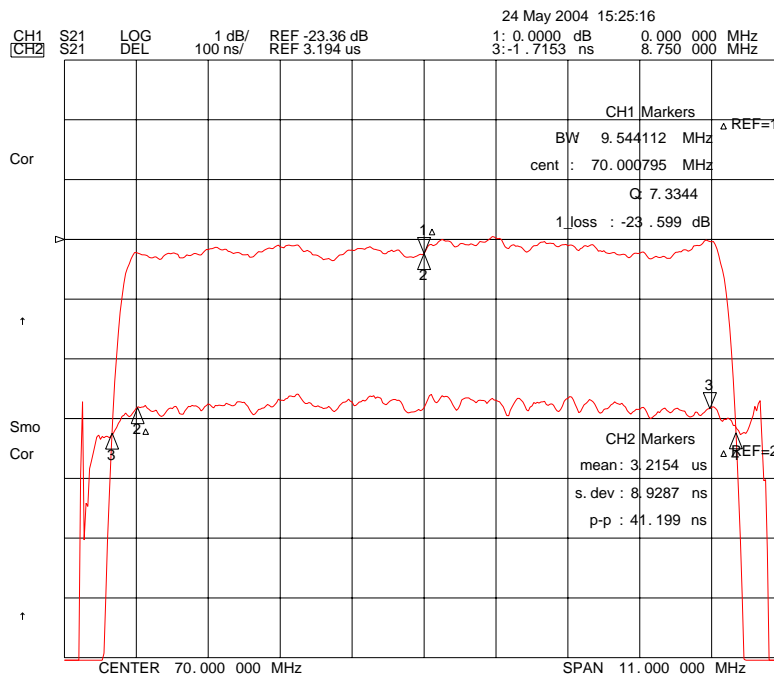
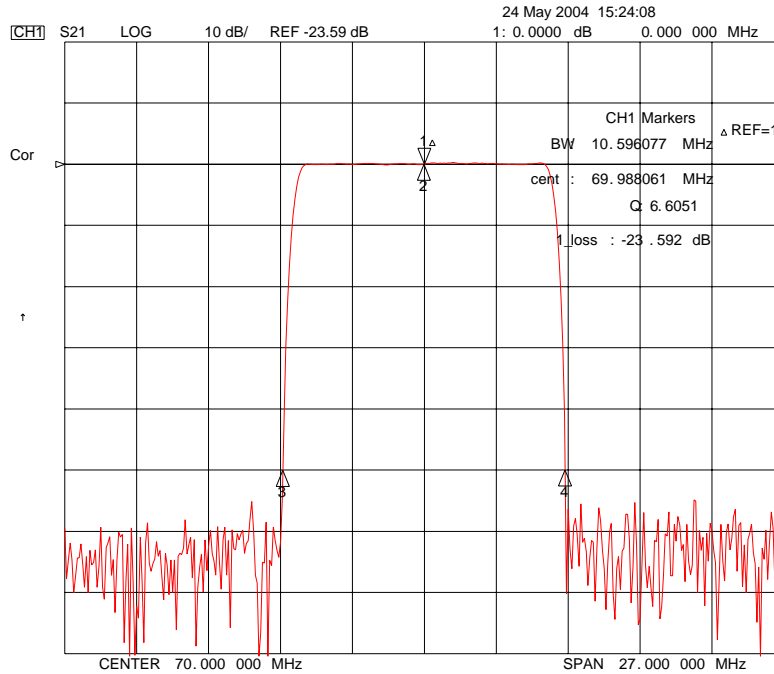
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6. Typical Performance (at +25°C)



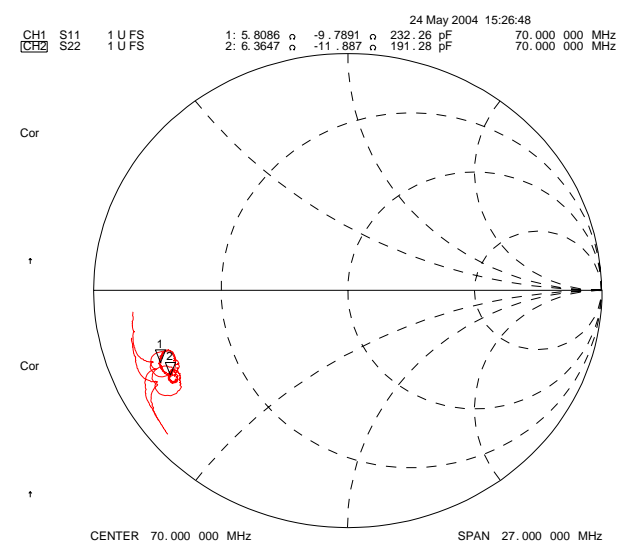
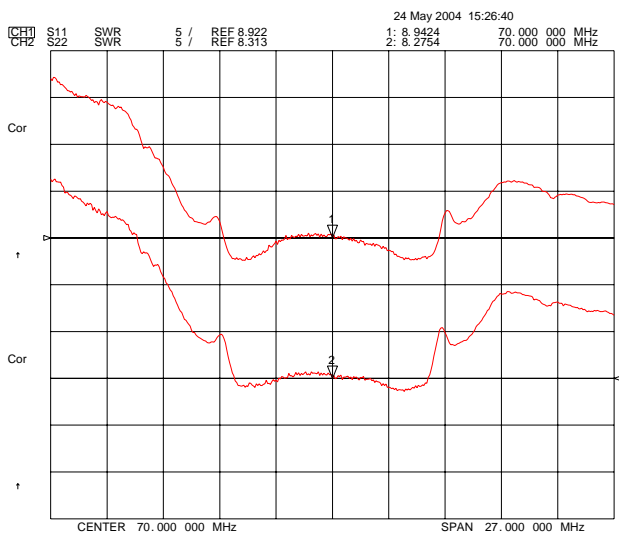
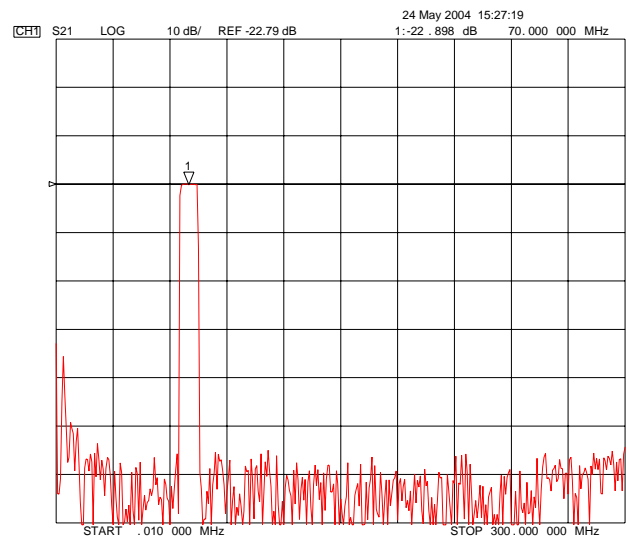
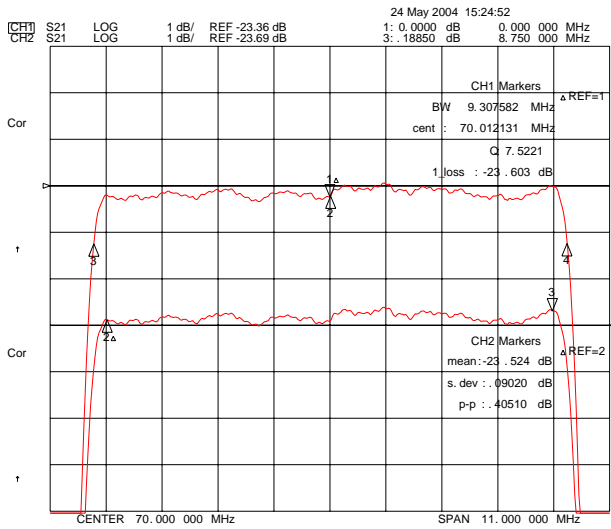
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