

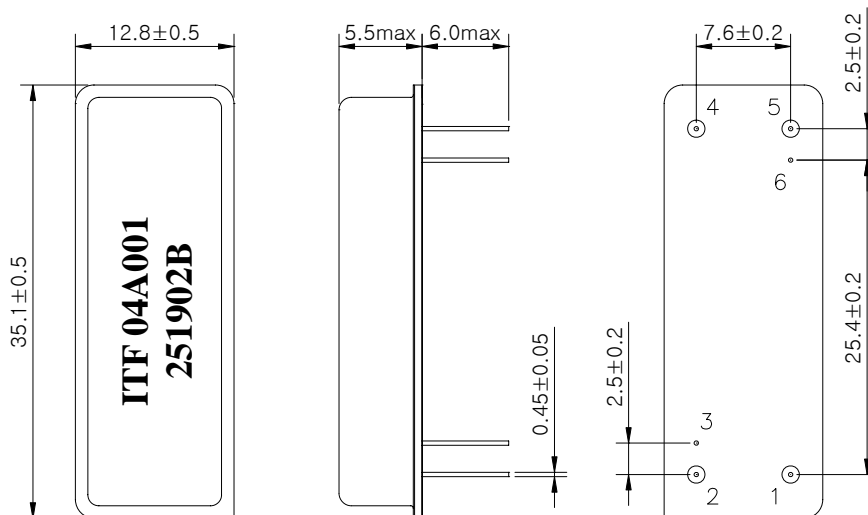
SAW Bandpass Filter 251902B



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.	251902B	
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3. Specifications

Fo = 120.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	119.9	120.0	120.1
Insertion Loss	dB	-	25.5	26.5
1dB Bandwidth	MHz	-	18.9	-
3dB Bandwidth	MHz	19.0	19.1	-
40dB Bandwidth	MHz	-	20.1	20.4
Amplitude Ripple (Fo +/- 9.22 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 9.22 MHz)	nsec	-	50	150
Absolute Delay	usec	-	2.67	-
Ultimate Rejection	dB	50	55	-
Relative Attenuation				
at 110 MHz	dB	25	30	-
at 130 MHz	dB	25	30	-
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

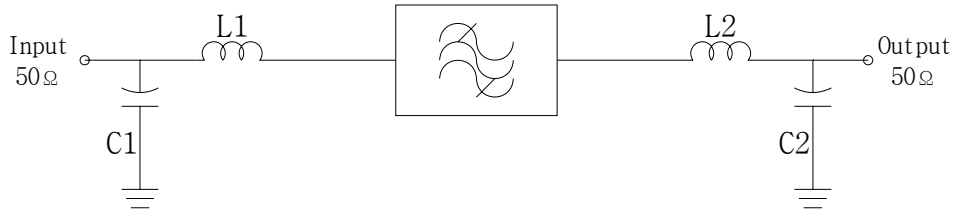
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4. Matching Schematic

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



$$L1 = L2 = 39 \text{ nH}$$

$$C1 = C2 = 33 \text{ pF}$$

5. Marking Configuration


ITF¹⁾04A001²⁾

251902B³⁾

1) Manufacturer name

2) Lot Number

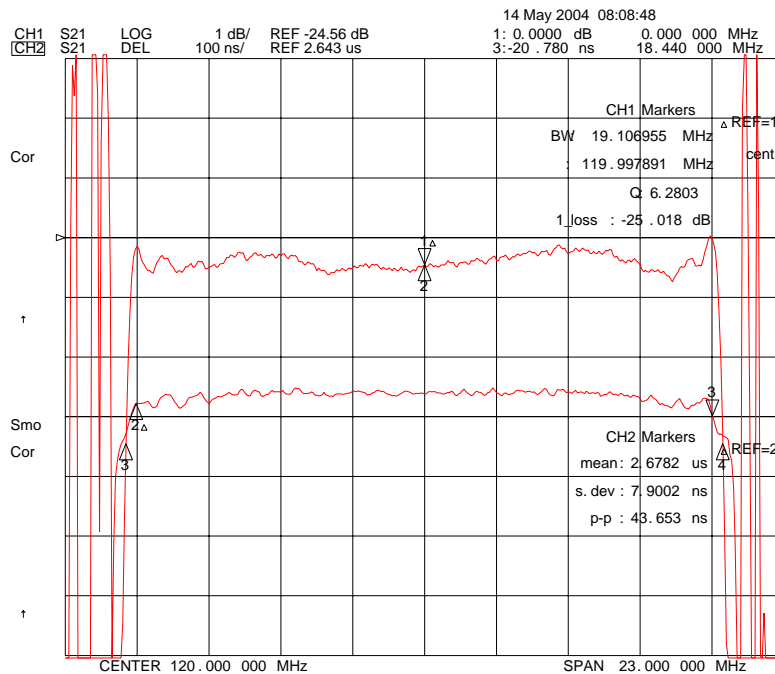
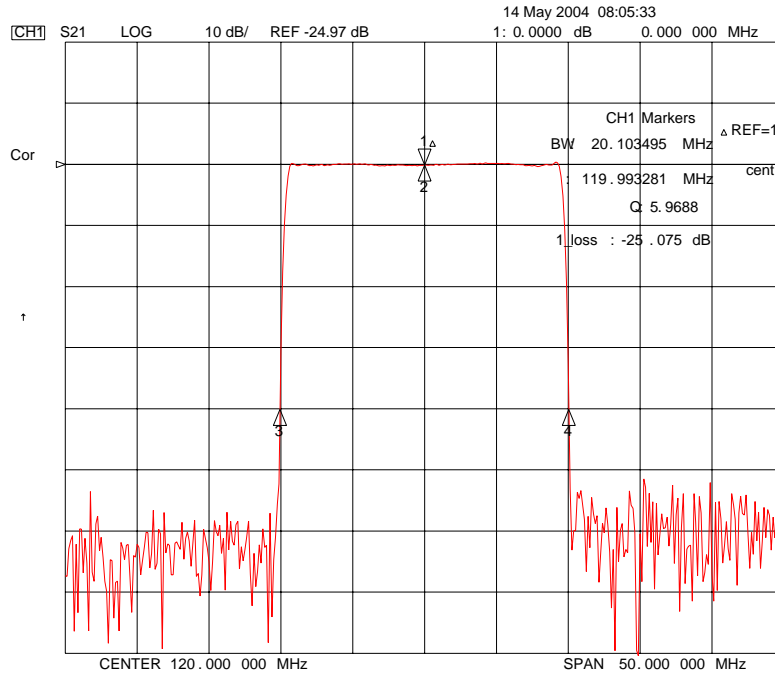
3) Part Number

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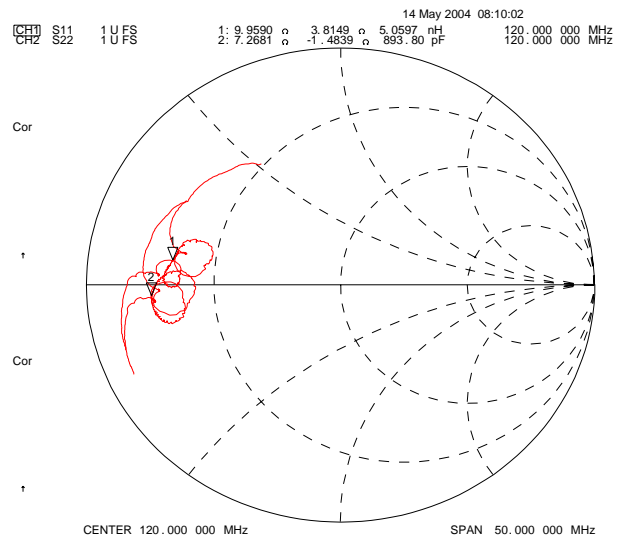
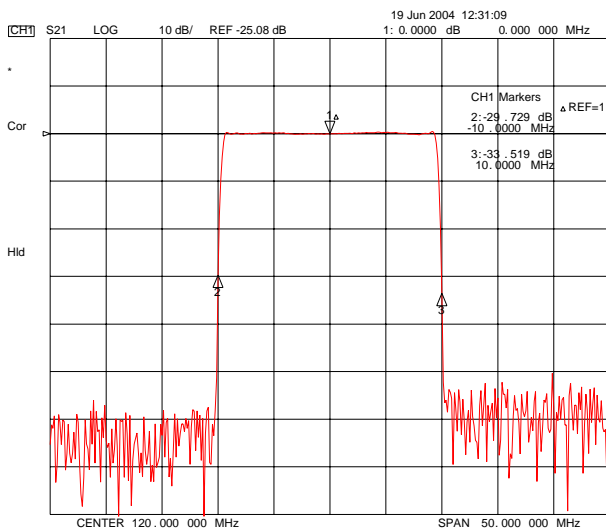
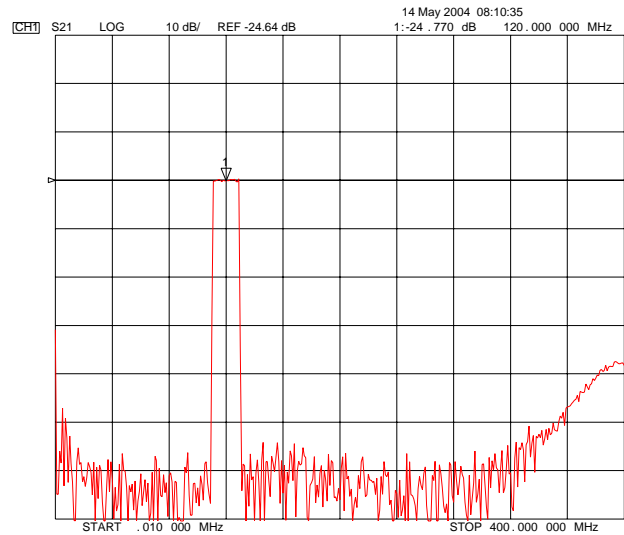
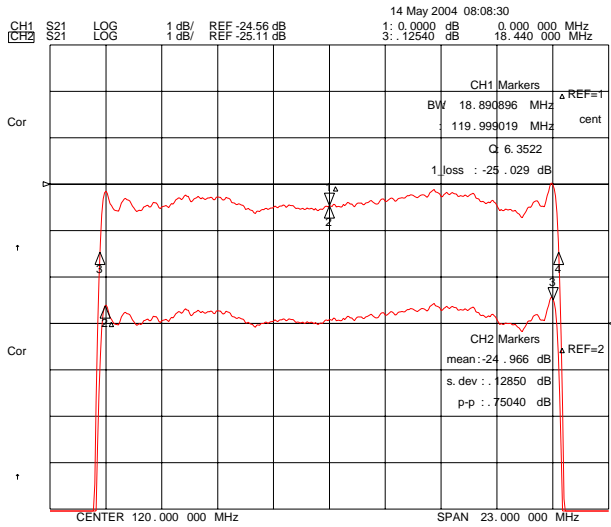


6. Typical Performance (at +25°C)



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