

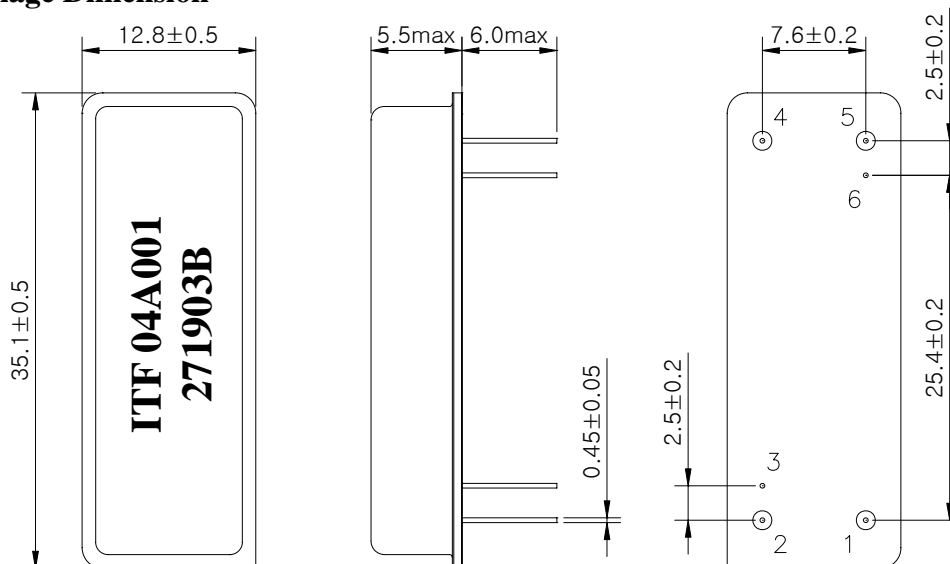
SAW Bandpass Filter 271903B



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.	271903B	
		Rev. Date	2004-11-02	
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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	69.94	70.0	70.06
Insertion Loss	dB	-	22.8	25.0
1dB Bandwidth	MHz	-	19.1	-
3dB Bandwidth	MHz	19.4	19.45	-
40dB Bandwidth	MHz	-	20.9	21.1
Amplitude Ripple (Fo +/- 9.375 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 9.375 MHz)	nsec	-	50	100
Absolute Delay	usec	-	2.3	-
Ultimate Rejection	dB	50	52	-
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

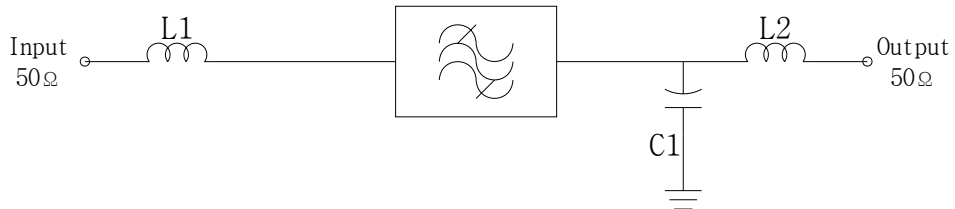
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4. Matching Schematic

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



$$L1 = L2 = 150 \text{ nH}$$

$$C1 = 12 \text{ pF}$$

5. Marking Configuration


ITF¹⁾04A001²⁾

271903B³⁾

1) Manufacturer name

2) Lot Number

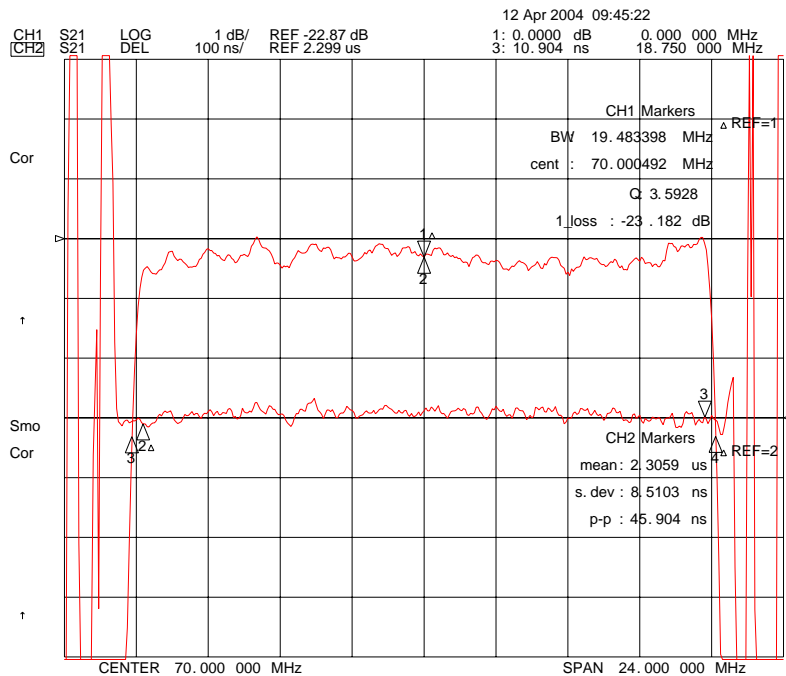
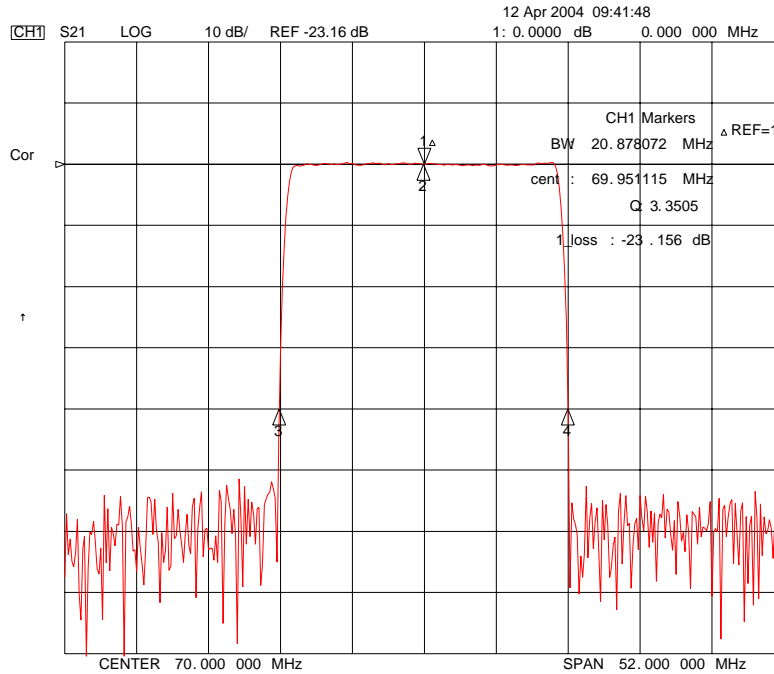
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6. Typical Performance (at +25°C)



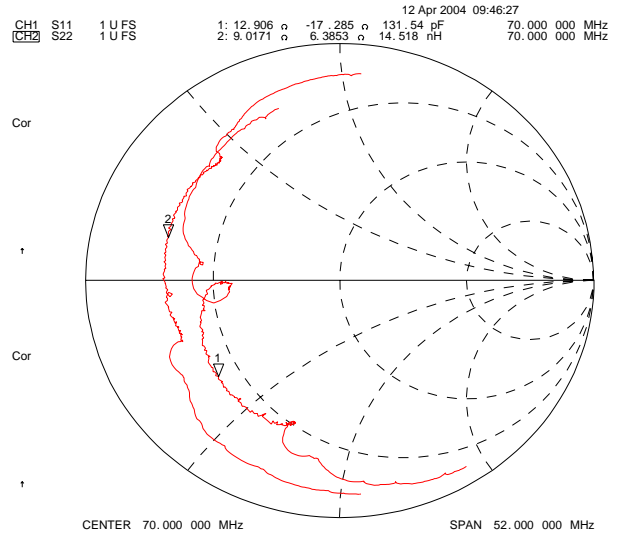
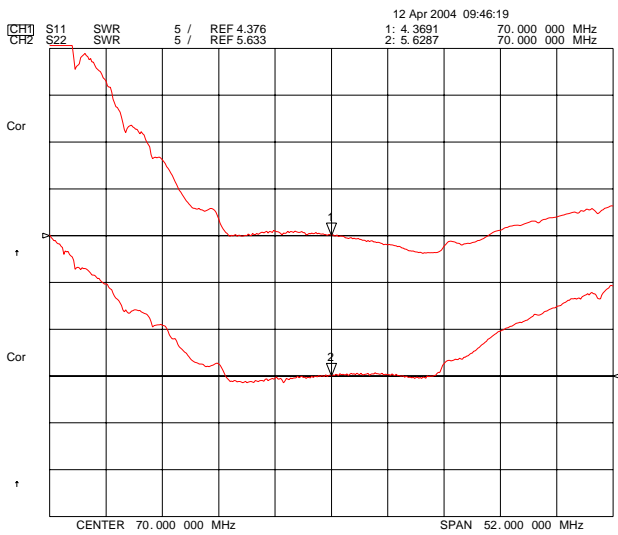
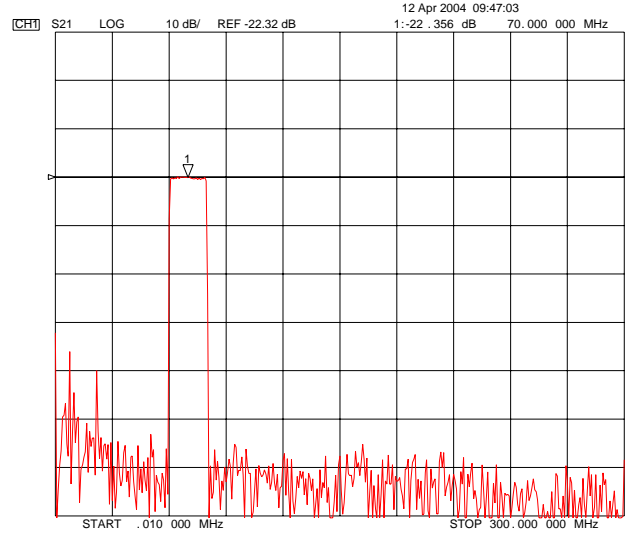
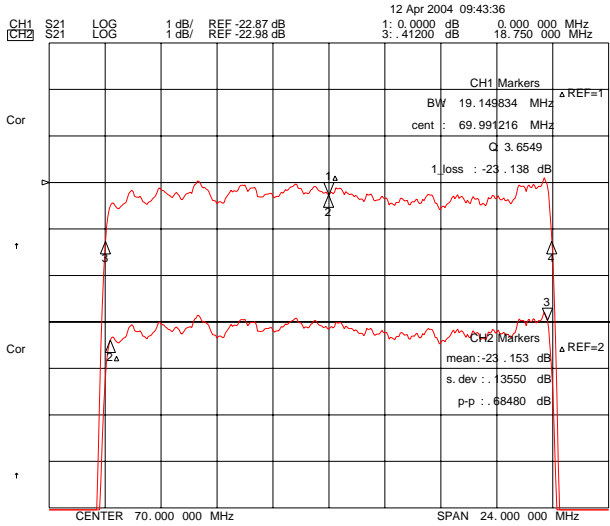
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