

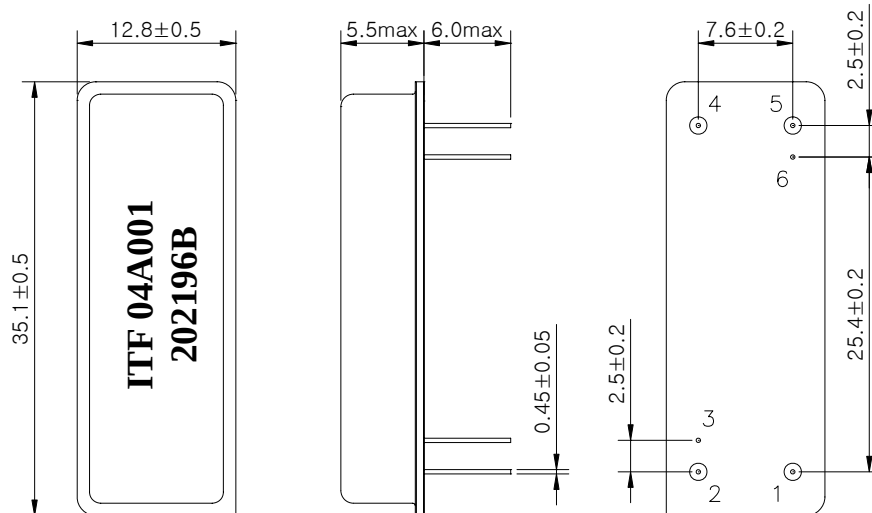
SAW Bandpass Filter 202196B



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.	202196B	
		Rev. Date	2004-09-03	
		Rev.	NM3013-CS03	1/5

SAW Bandpass Filter 202196B



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	69.92	70.0	70.08
Insertion Loss	dB	-	22.5	23.0
1dB Bandwidth	MHz	-	20.45	-
3dB Bandwidth	MHz	20.5	20.7	-
40dB Bandwidth	MHz	-	21.85	22.0
Amplitude Ripple (Fo +/-10.0 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 10.0 MHz)	nsec	-	60	120
Absolute Delay	usec	-	2.76	-
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

All attenuation measurements are measured relative to insertion loss

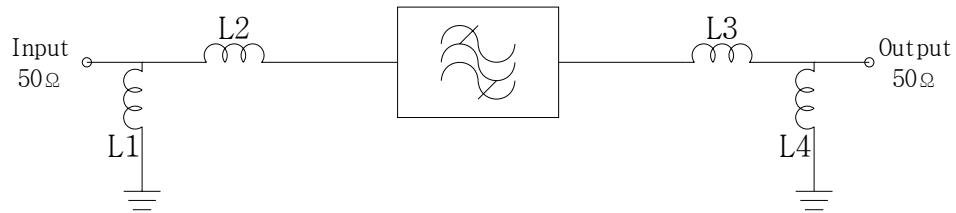
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		Rev. Date	2004-09-03	
		Rev.	NM3013-CS03	2/5

SAW Bandpass Filter 202196B



4. Matching Schematic

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



L1 = 82 nH , L2 = 100 nH
L3 = 220 nH , L4 = 220 nH

5. Marking Configuration

ITF¹⁾ 04A001²⁾
202196B³⁾

1) Manufacturer name

2) Lot Number

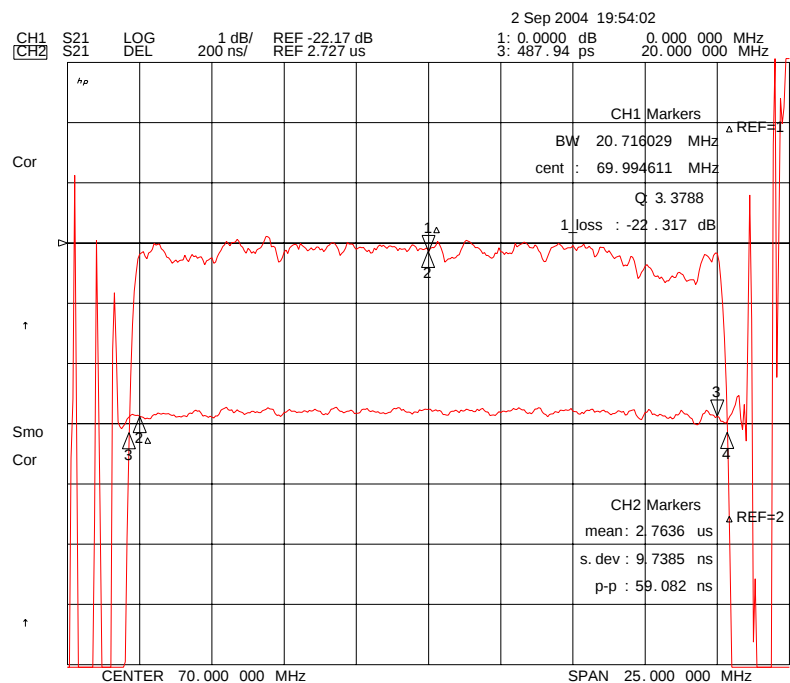
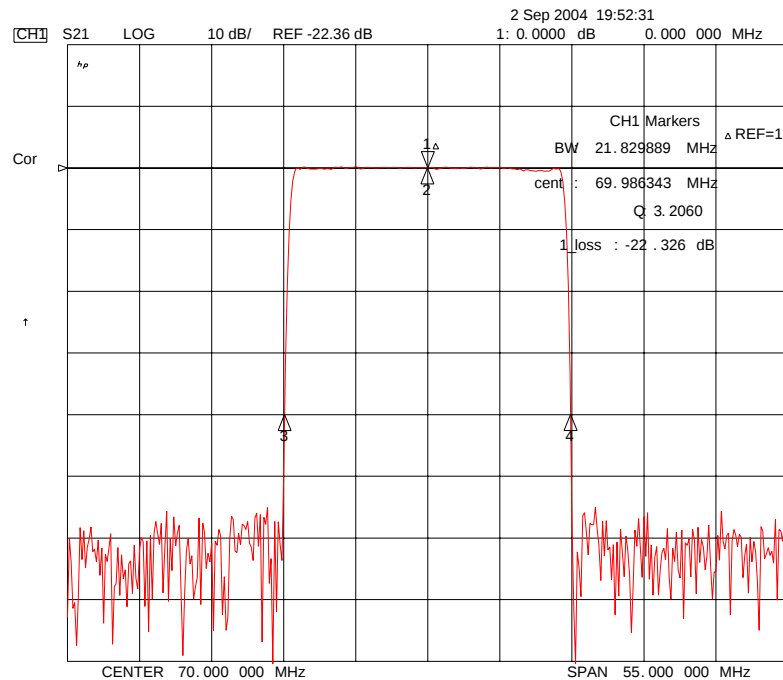
3) Part Number

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SAW Bandpass Filter 202196B

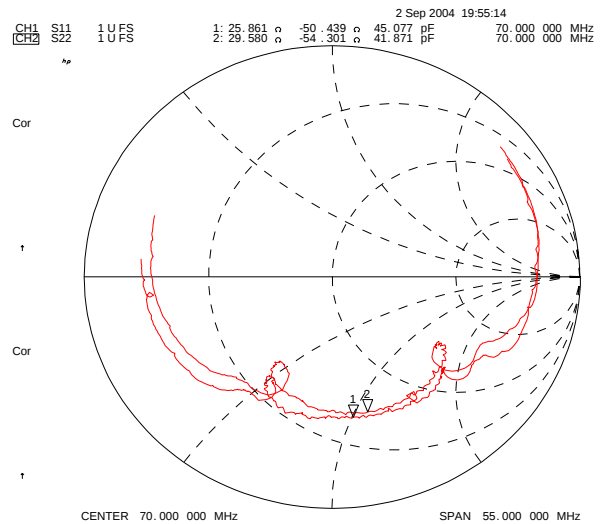
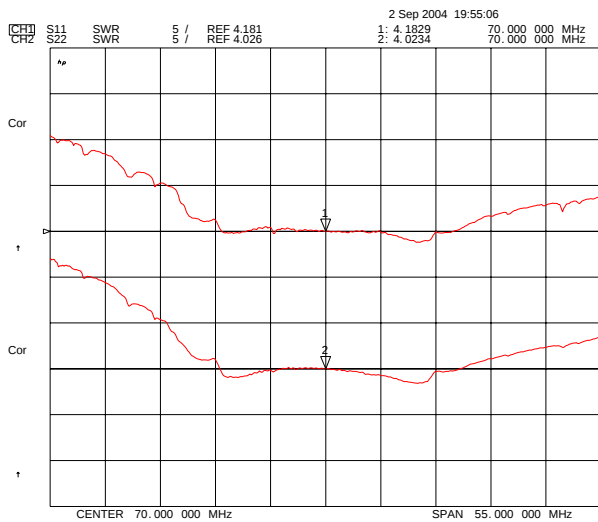
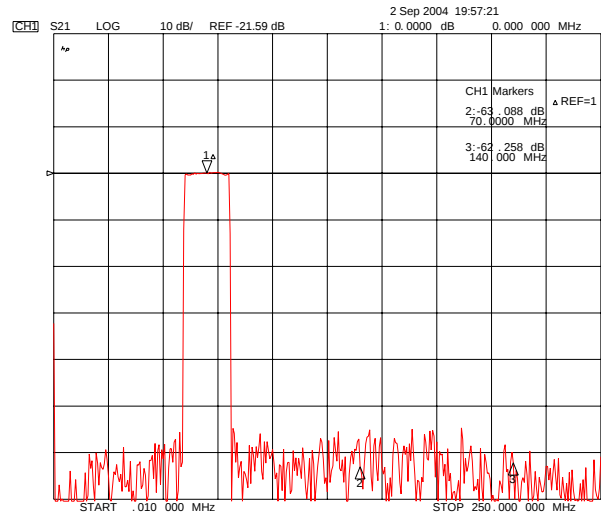
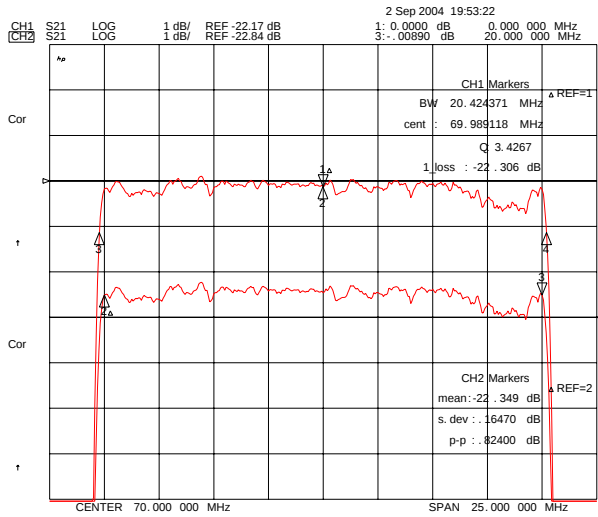


6. Typical Performance (at +25℃)



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			Rev. Date		2004-09-03	
			Rev.		NM3013-CS03	4/5

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Rev. NM3013-CS03 5/5