

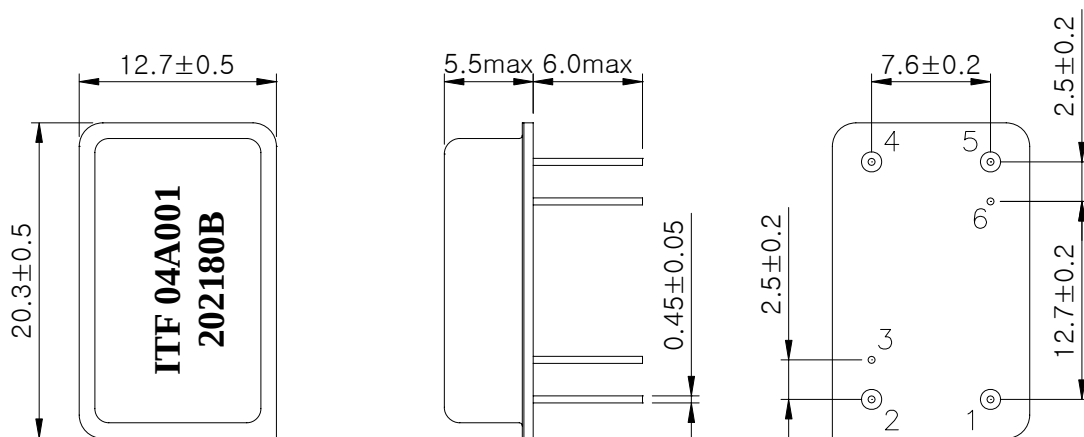
SAW Bandpass Filter 202180B



1. Features

- IF bandpass filter
- High attenuation
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D2012

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
4	Output
2, 5	Ground
Other	Case ground

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		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	1/5

SAW Bandpass Filter 202180B



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	-	21.0	25.0
1dB Bandwidth	MHz	-	1.0	-
3dB Bandwidth	MHz	1.2	1.23	-
40dB Bandwidth	MHz	-	2.25	2.35
Amplitude Ripple (Fo +/- 0.4 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 0.4 MHz)	nsec	-	80	150
Absolute Delay	usec	-	2.73	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

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

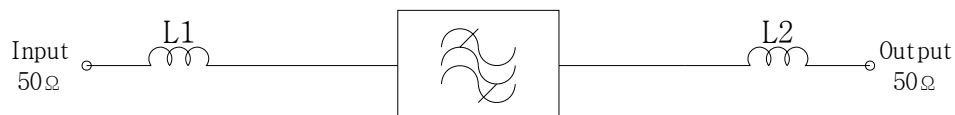
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		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	2/5

SAW Bandpass Filter 202180B



4. Matching Schematic

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



$$L1 = L2 = 180 \text{ nH}$$

5. Marking Configuration

ITF¹⁾ 04A001²⁾
202180B³⁾

1) Manufacturer name

2) Lot Number

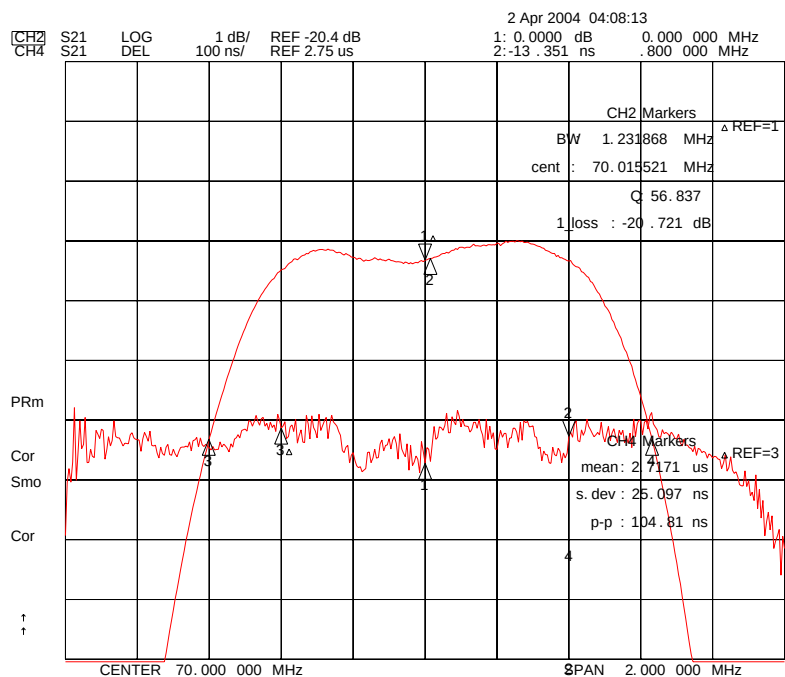
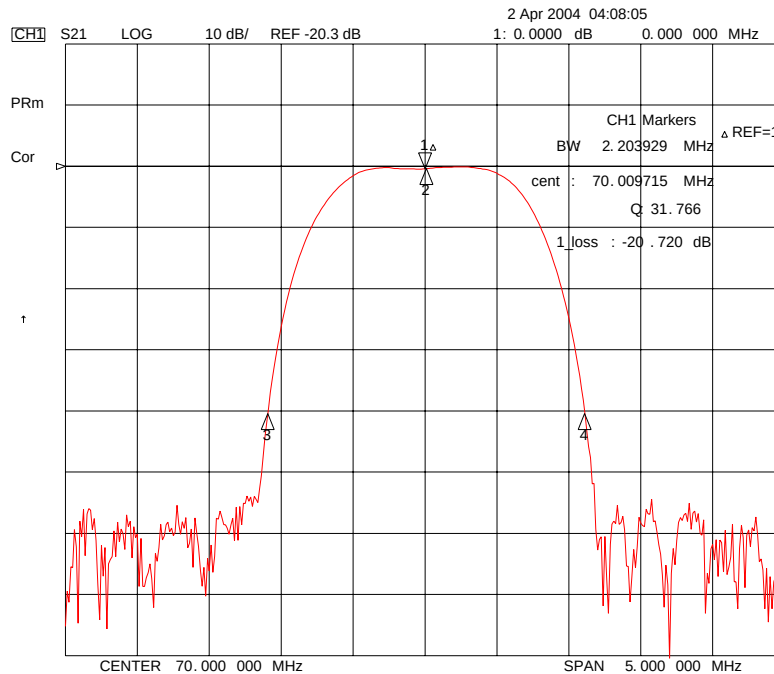
3) Part Number

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		Rev. Date	2004-04-08	
		Rev.	NI2035-CS02	3/5

SAW Bandpass Filter 202180B



6. Typical Performance (at +25℃)



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202180B

Rev. Date

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Rev.

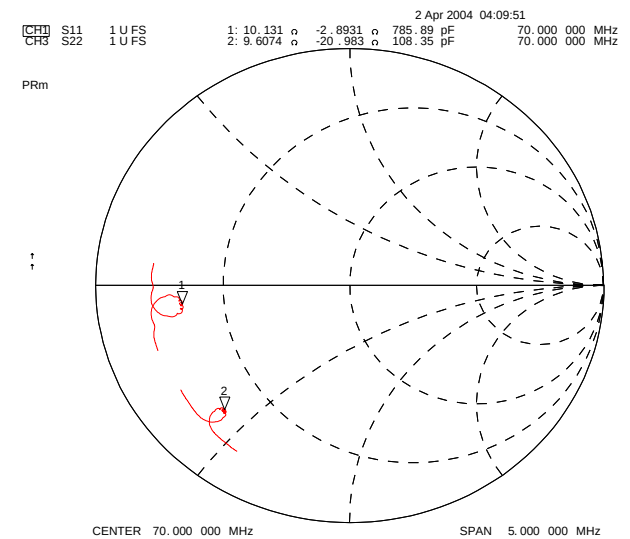
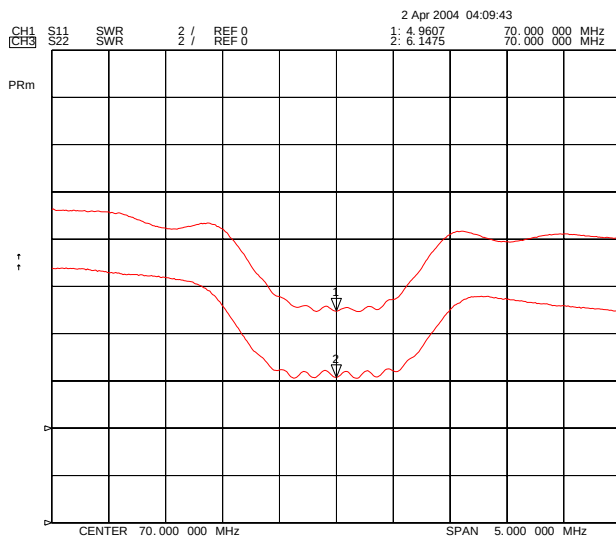
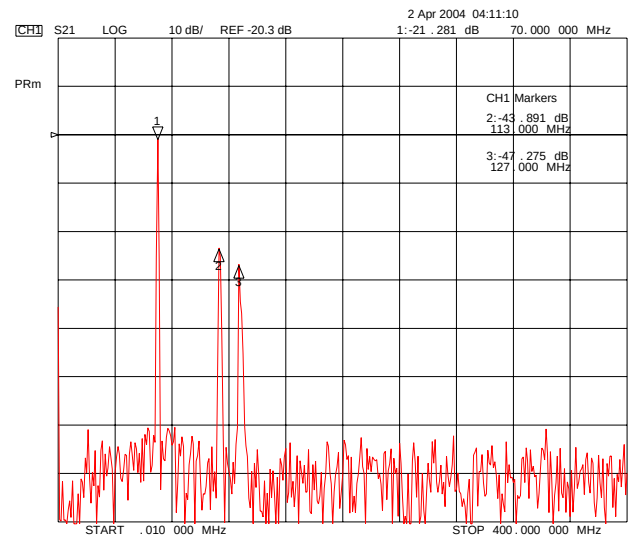
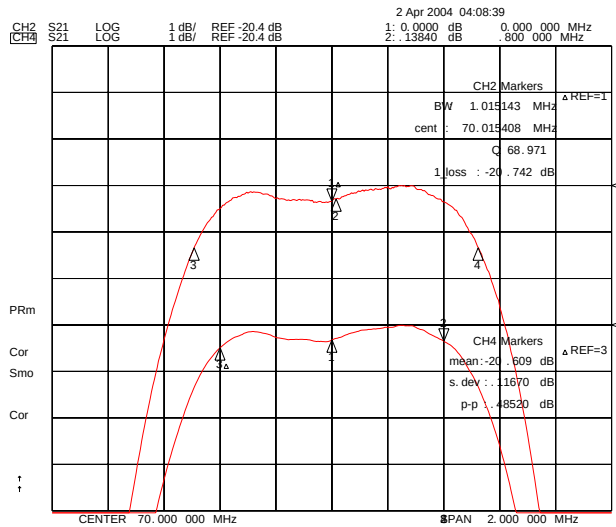
NI2035-CS02

4/5

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V



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202180B

Rev. Date

2004-04-08

Rev.

NI2035-CS02

5/5