

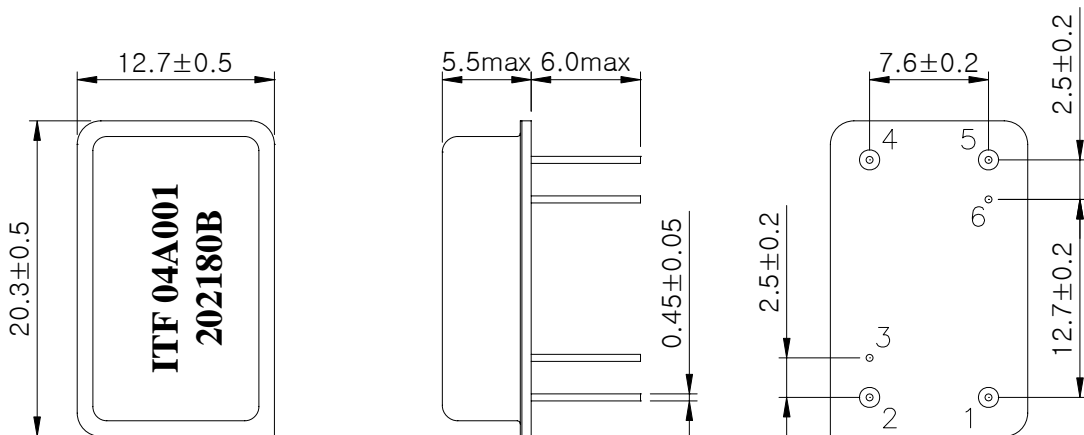
# SAW Bandpass Filter 202180B



## 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 : 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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## 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 <sup>2</sup>	-	-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

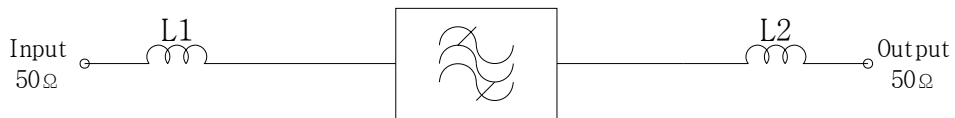
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## 4. Matching Schematic

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




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

## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
202180B<sup>3)</sup>

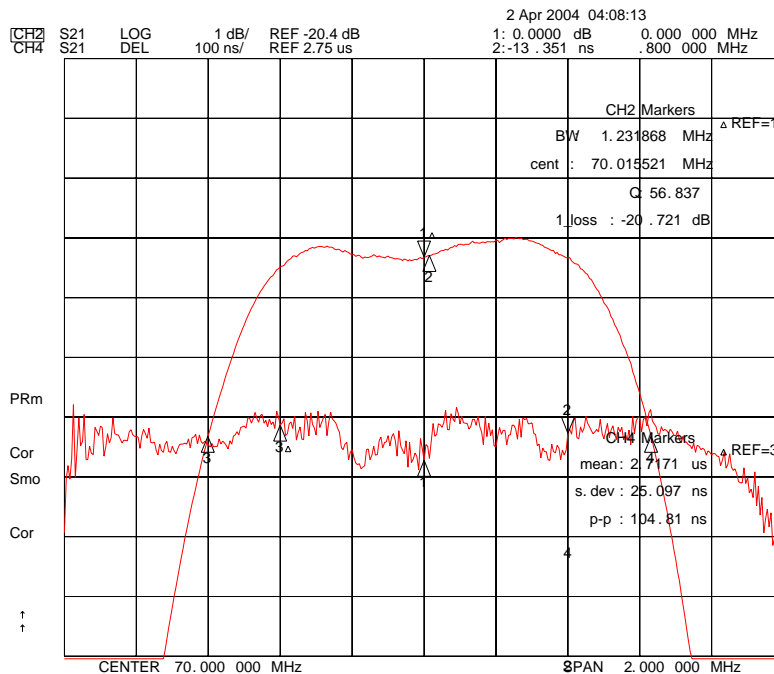
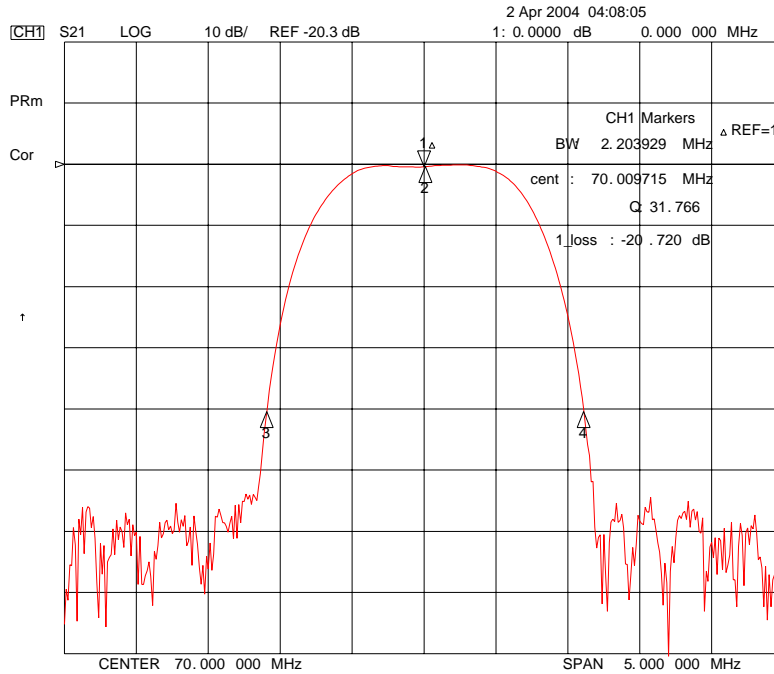
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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## 6. Typical Performance ( at +25°C )



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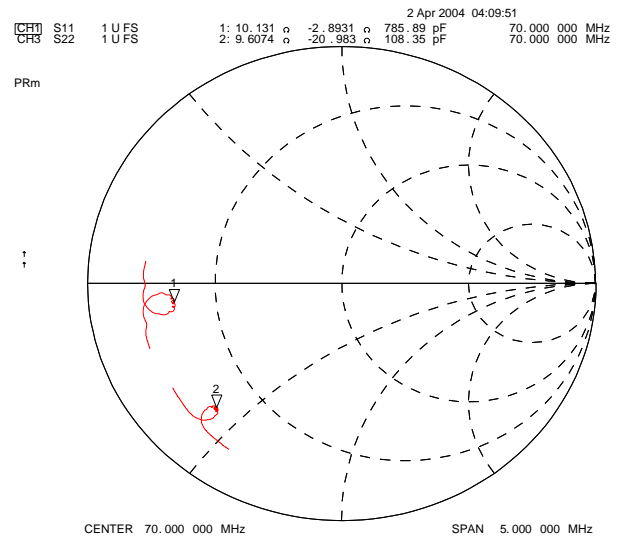
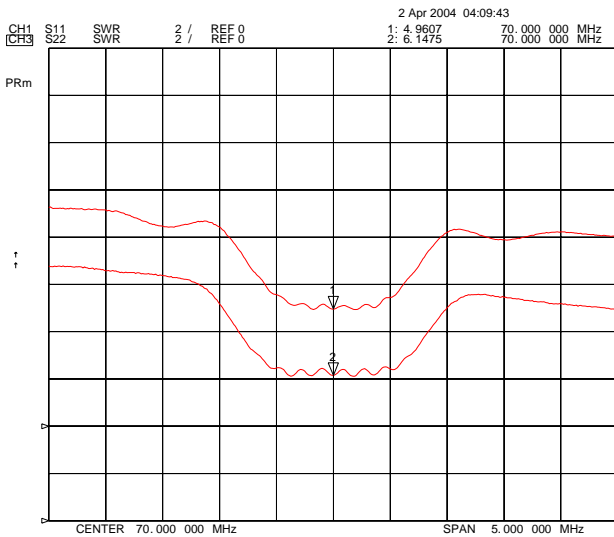
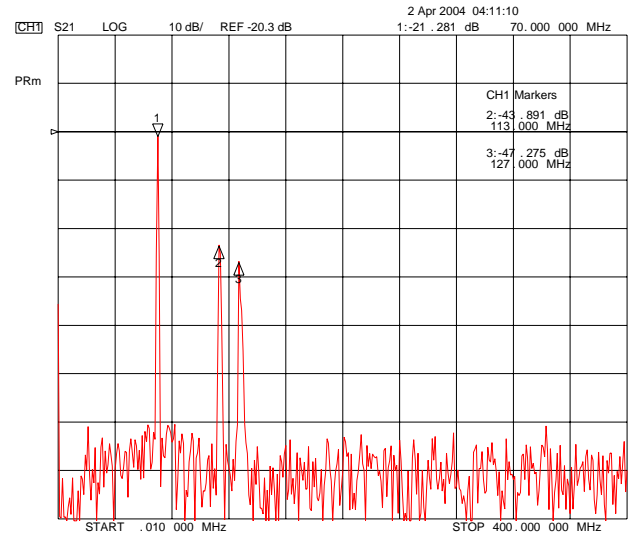
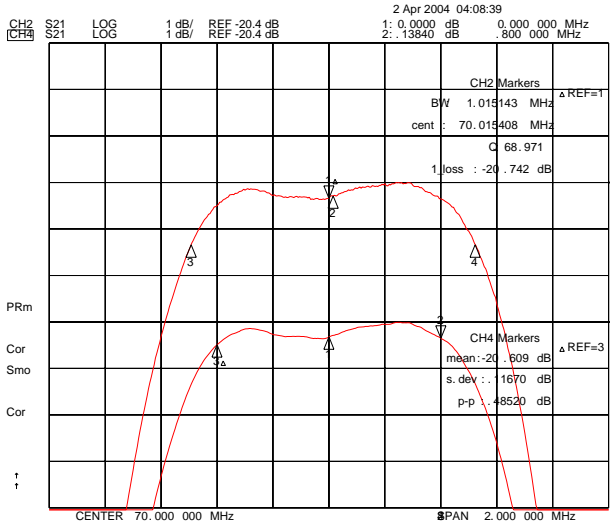
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