

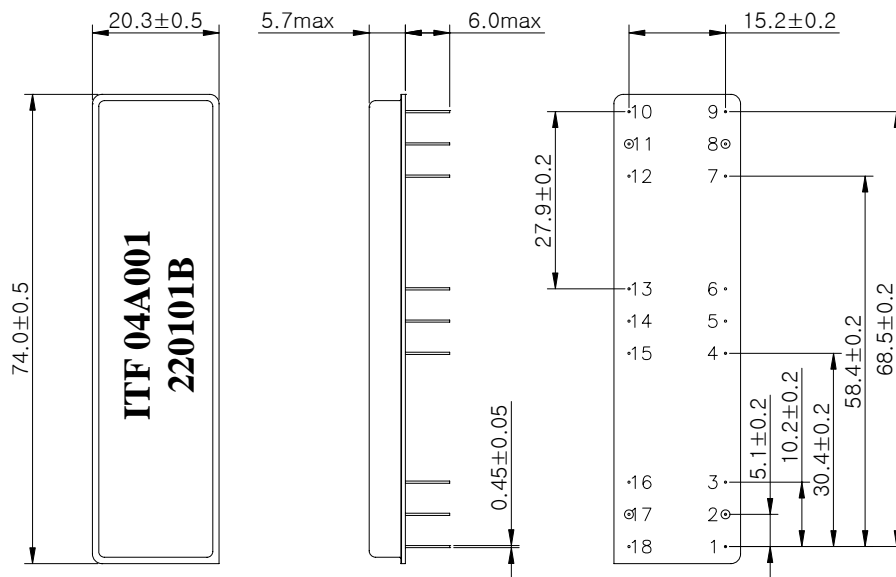
# SAW Bandpass Filter 220101B



## 1. Features

- For CDMA Basestation Receiver
- High Attenuation
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- Electrostatics Sensitive Device (ESD)

## 2. Package Dimension



### Package : D7420

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	
8	Input
17	Output
11, 2	Ground
Others	Case ground

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## 3. Specifications

Fo = 69.99 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating Temperature Range : -10℃ ~ +60℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	69.99	-
Insertion Loss	dB	-	21.6	22.5
1.5dB Bandwidth	MHz	1.26	1.28	-
35dB Bandwidth	MHz	-	1.485	1.5
Amplitude Ripple (Fo +/- 0.615 MHz)	dB	-	0.66	0.8
Group Delay Variation (Fo +/- 0.615 MHz)	nsec	-	710	1000
Absolute Delay	usec	-	10.669	-
Ultimate Rejection				
At Fo - 900 kHz	dB	50	54	-
At Fo + 900 kHz	dB	45	50	-
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
- 3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 4) All attenuation measurements are measured relative to insertion loss

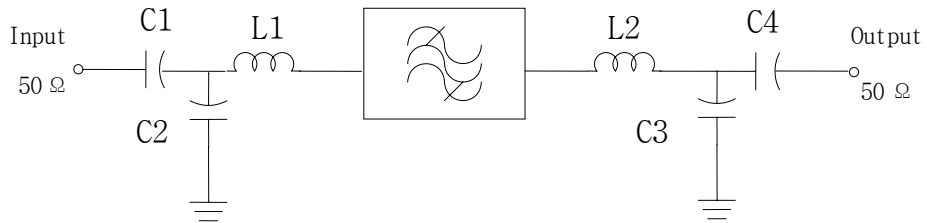
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## 4. Matching Schematic

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



L1 = 100 nH,      L2 = 120 nH  
 C1 = 200pF,      C4 = 200 pF  
 C2 = 100 pF,      C3 = 110 pF

## 5. Marking Configuration

ITF<sup>1)</sup>04A001<sup>2)</sup>  
220101B<sup>3)</sup>

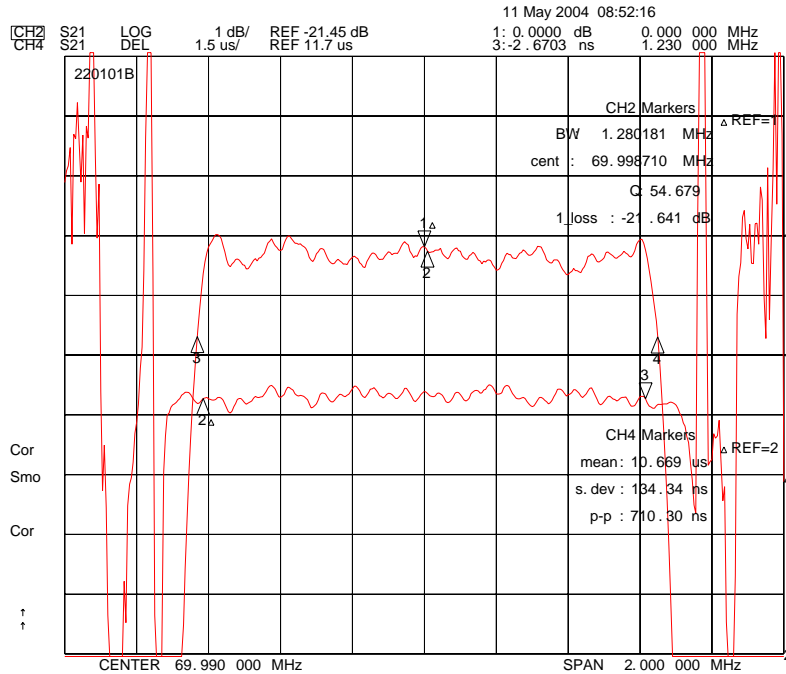
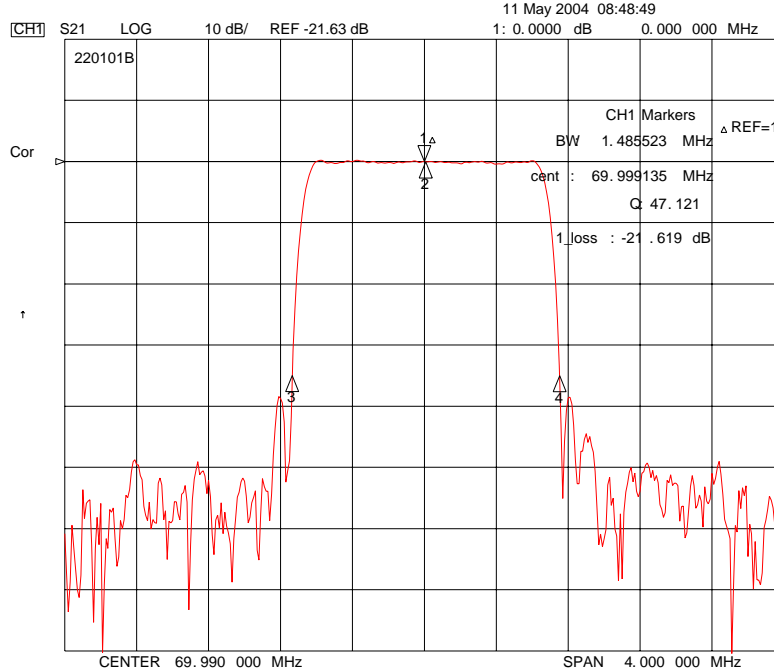
- 1) Manufacturer name
- 2) Lot Number
- 3) Part Number

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



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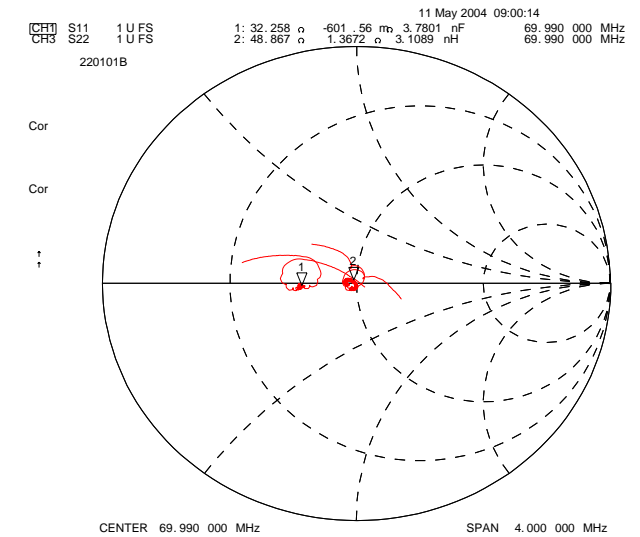
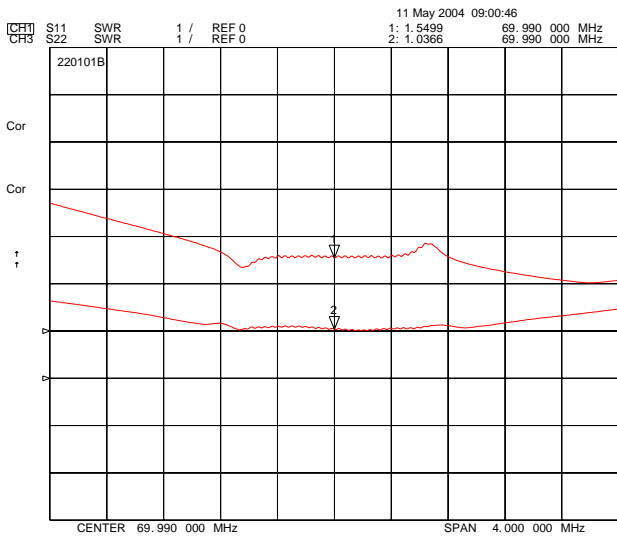
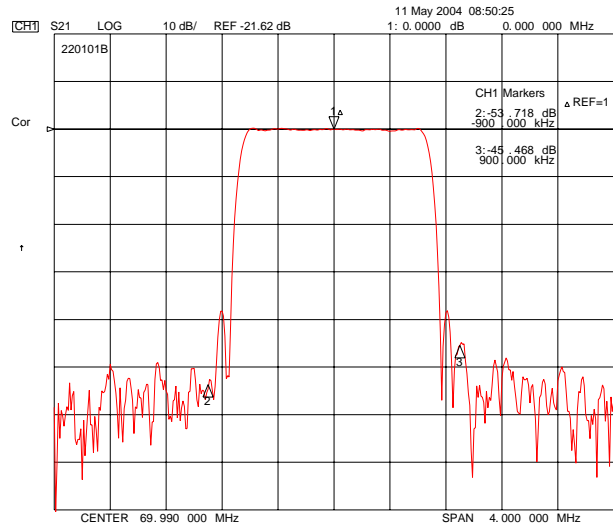
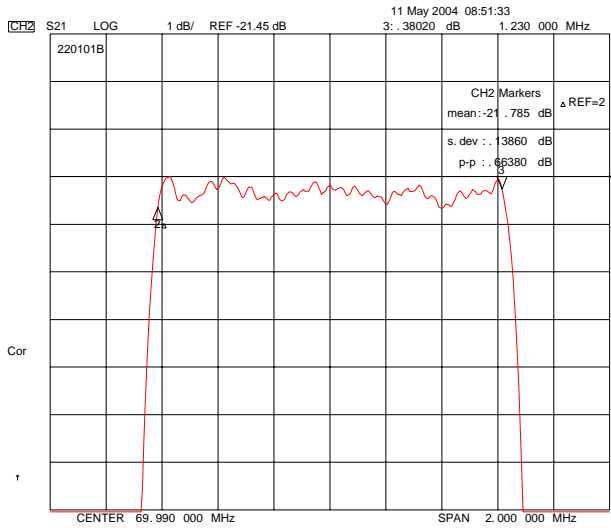
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