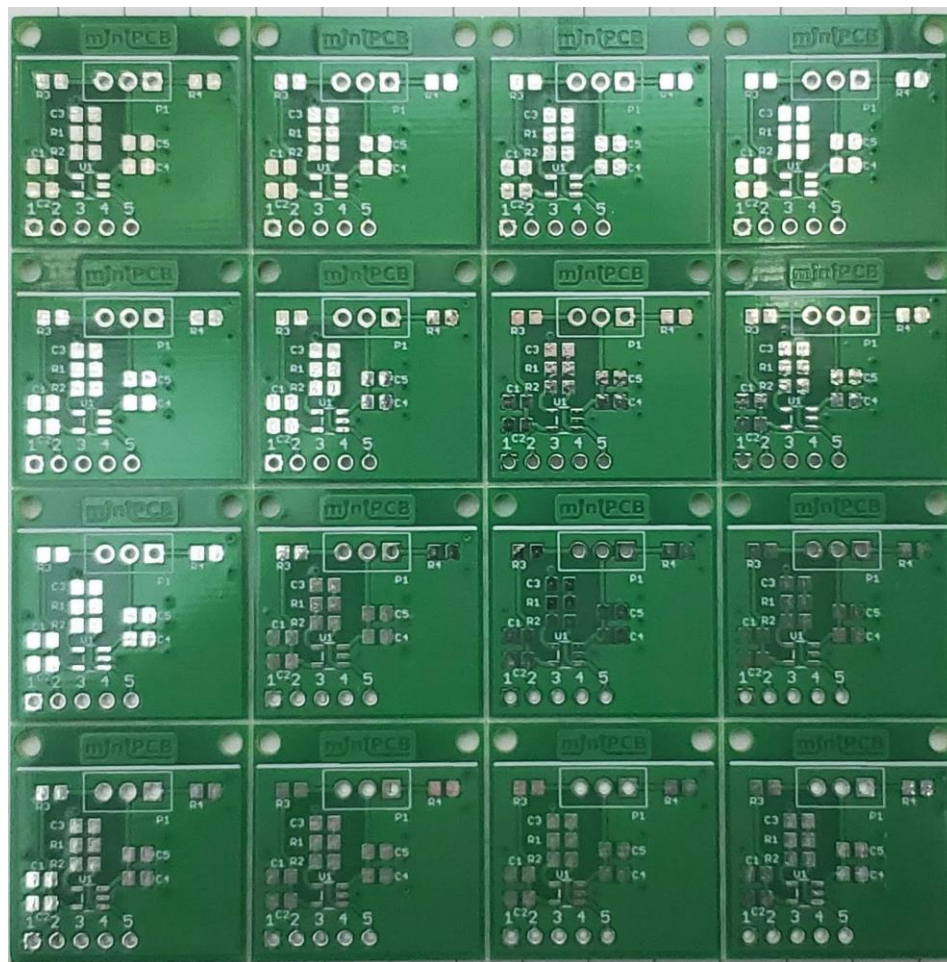


# Inverting Amplifier

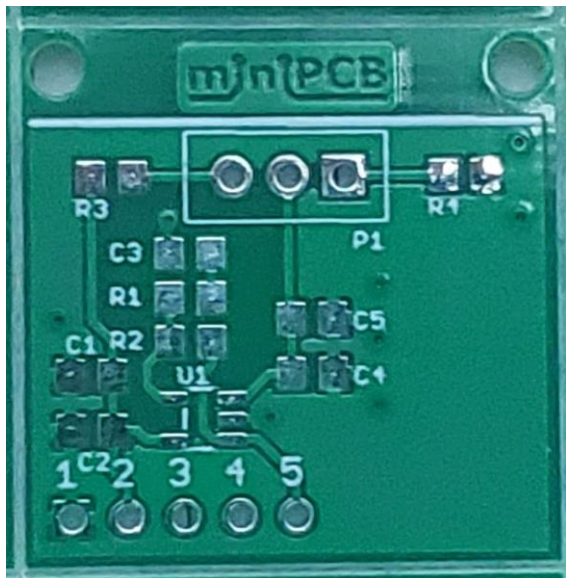
## General Information

- **Group:** Opamp Amplifiers (04A)
- **Circuit:** Inverting Amplifier
- **Variant:** SMD, Single supply, DC bias trimpot, AC coupled input, DC coupled output
- **Pieces per Panel:** Sixteen (16)
- **Description:** High quality PCB panel with v-scores to easily separate the pieces.

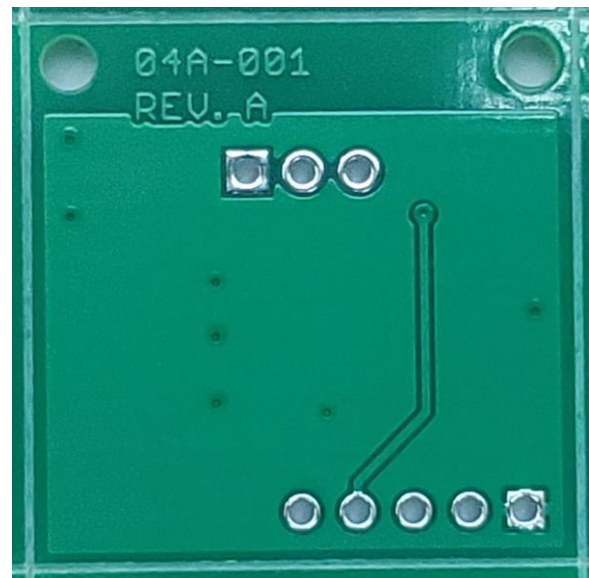
## Panel



## Single Board

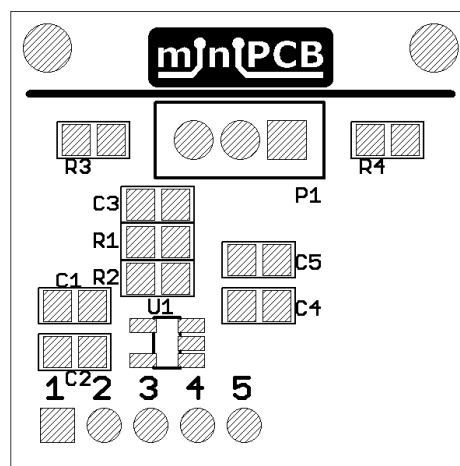


Top (Component) Side

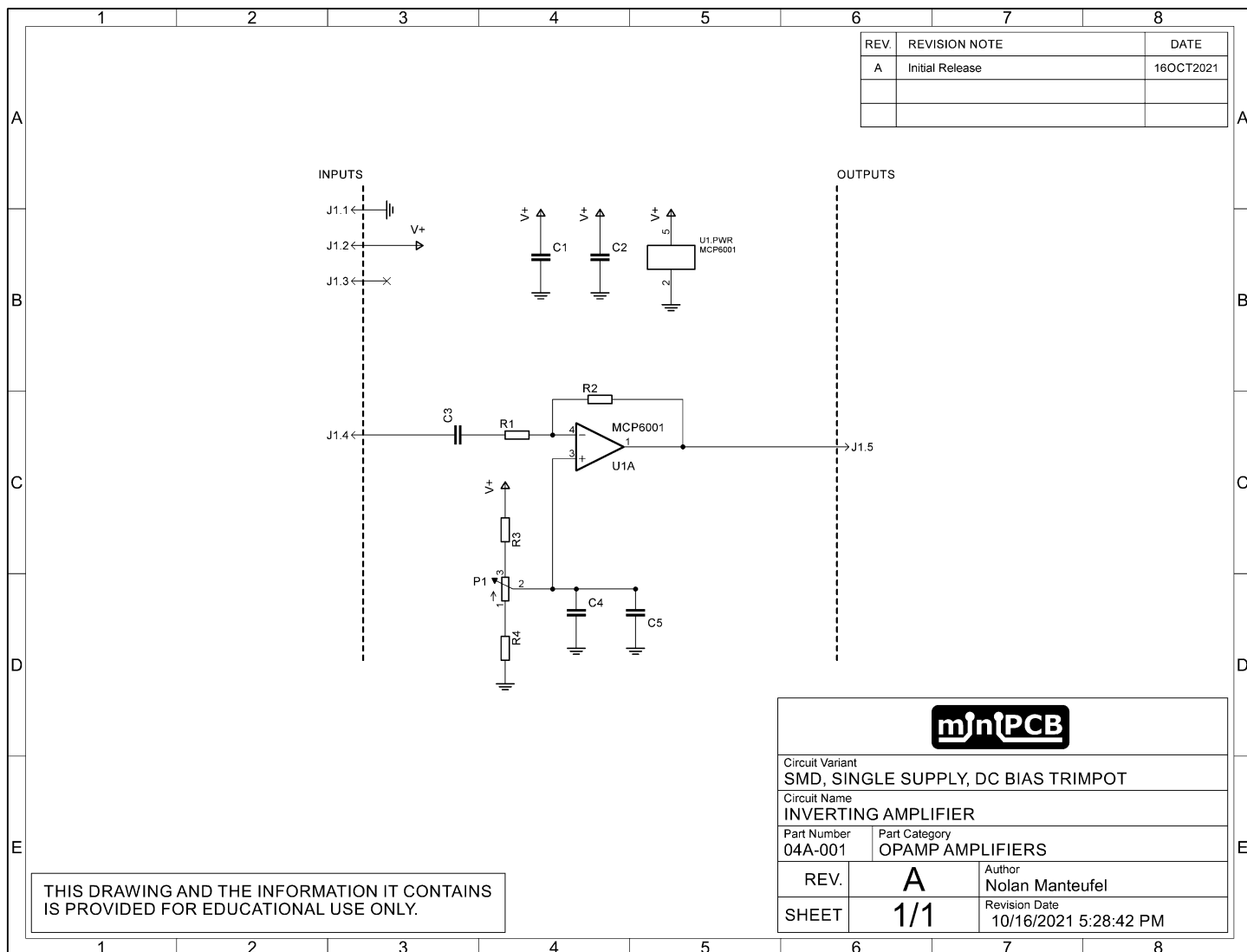


Bottom (Solder) Side

## Part Locations



## Schematic



<b>Student Name:</b>	<b>Date:</b>
<b>Class:</b>	<b>Assignment:</b>

## Part List

#	Name	Type	Footprint	Values	Notes
1	R1	Resistor	0805		
2	R2	Resistor	0805		
3	R3	Resistor	0805		
4	R4	Resistor	0805		
5	C1	Capacitor	0805		
6	C2	Capacitor	0805		
7	C3	Capacitor	0805		
8	C4	Capacitor	0805		
9	C5	Capacitor	0805		
10	U1	Opamp	SOT-23-5		Pinout compatible with MCP6001.
11	P1	Trimpot	0.1" pitch		
12	J1	Header Pins	5-pin	N/A	0.1" pitch (distance between pins)

## Performance Characteristics

Parameter	Units	Target	Measured	Notes
Supply Voltage	VDC			
Quiescent Current	mA			
Input Impedance	Ohms			Measure near the center of the frequency pass band.
Output Impedance	Ohms			
Low Freq. -3dB	Hz			
High Freq. -3dB	Hz			
Voltage Gain, $A_v$	$V_{out} \div V_{in}$			Measure near the center of the frequency pass band.
Current Gain, $A_i$	$I_{out} \div I_{in}$			
Power Gain, $A_p$	$A_v \times A_i$			

## Supporting Documents

#	Doc. No.	Document Type	Document Title
1	DN.001	Design Notes	Selecting Parts for Your miniPCB

## Revision History

Revision	Note	Date
A	Initial Release	DDMMYYYYY

## Document Control

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Document No. 04A-001  
Revision DRAFT  
File Location C:\datasheets  
User ID nolan  
Computer ID desktop-jti13j1  
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