Part Number 04A-001

Rev.

DRAFT

Revision Date: 17 November 2021

Inverting Amplifier

General Information

Group: Opamp Amplifiers (04A)

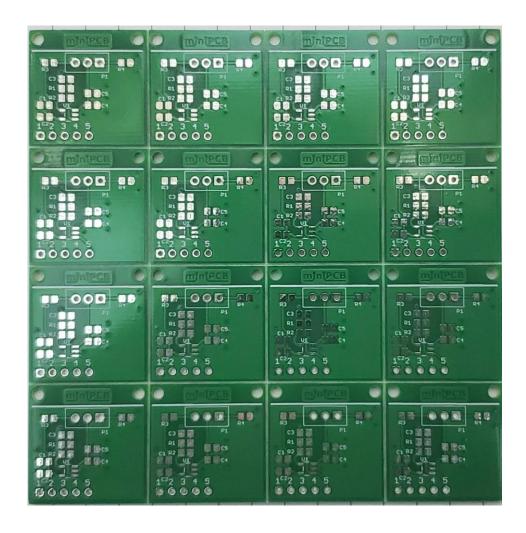
• Circuit: Inverting Amplifier

• 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

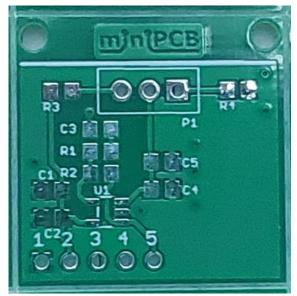


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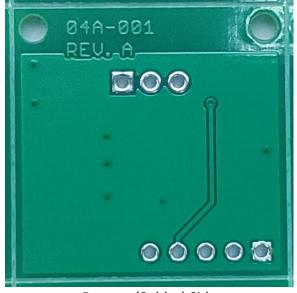
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Single Board

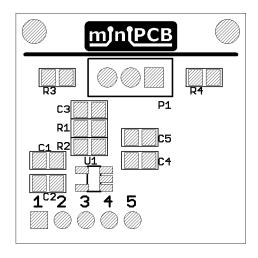


Top (Component) Side



Bottom (Solder) Side

Part Locations



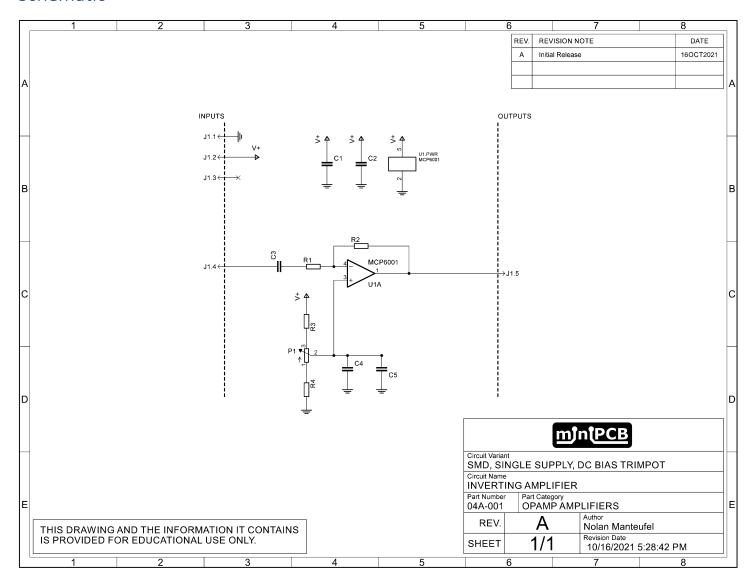
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Schematic





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Student Name:	Date:
Class:	Assignment:

Part List

#	Name	Туре	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 Freq3dB	Hz				
High Freq3dB	Hz				
Voltage Gain, A _v	$V_{out} \div V_{in}$				
Current Gain, A _i	$I_{out} \div I_{in}$			Measure near the center of the frequency pass band.	
Power Gain, A _p	$A_v \times A_i$				



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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	DDMMMYYYY

Document Control

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Document No. 04A-001
Revision DRAFT
File Location C:\datasheets
User ID nolan
Computer ID desktop-jti13j1
Datetime 20211117000304