Part Number 04B-009

Rev. **DRAFT** 

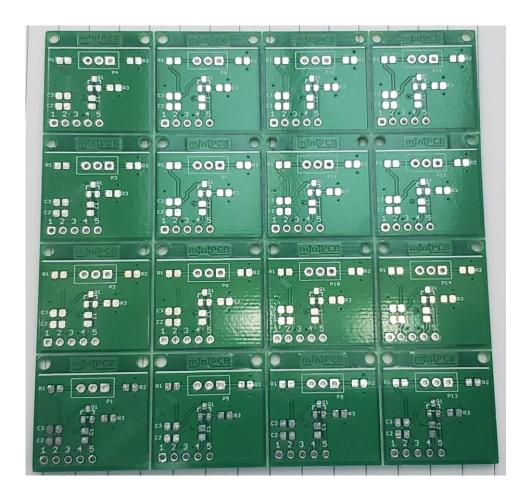
Revision Date: 16 November 2021

# Emitter Follower Amplifier

#### **General Information**

- Group: Transistor Amplifers (04B)
- Circuit: Emitter Follower 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**

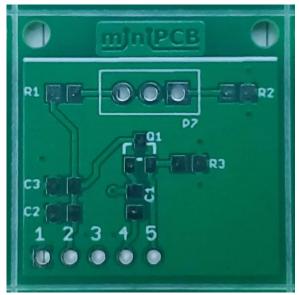


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# Single Board

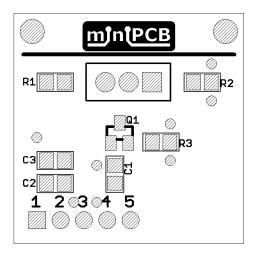


Top (Component) Side



Bottom (Solder) Side

### Part Locations



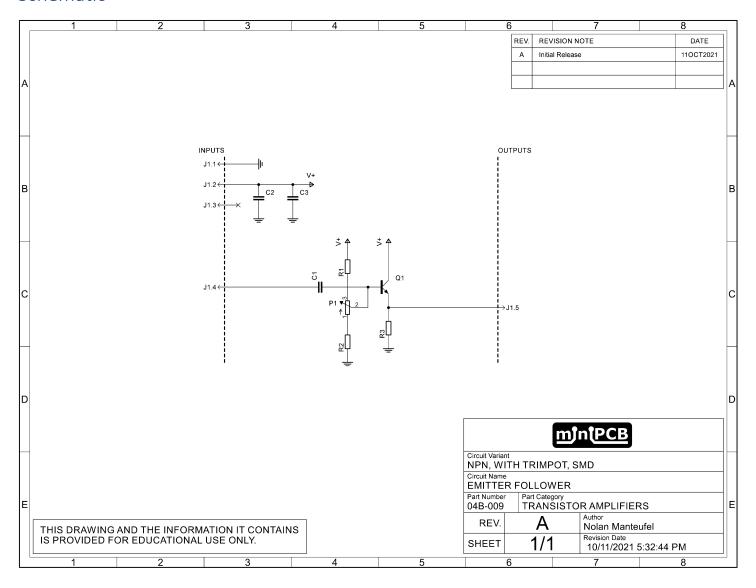
#### **DATASHEET**

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Revision Date: 16 November 2021

### Schematic





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Part Number 04B-009

Rev. **DRAFT** 

Revision Date: 16 November 2021

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	C1	Capacitor	0805		
5	C2	Capacitor	0805		
6	C3	Capacitor	0805		
7	Q1	Transistor	SOT-23		Pinout (123: BEC GSD)
8	P1	Trimpot	0.1" pitch		
9	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	
Output Impedance	Ohms			frequency pass band.	
Low Freq3dB	Hz				
High Freq3dB	Hz				
Voltage Gain, A <sub>v</sub>	$V_{out} \div V_{in}$				
Current Gain, Ai	$I_{out} \div I_{in}$			Measure near the center of the frequency pass band.	
Power Gain, A <sub>p</sub>	$A_v \times A_i$				



#### **DATASHEET**

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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
Α	Initial Release	DDMMMYYYY

#### **Document Control**

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Revision DRAFT
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