REV	DESCRIPTION	ECO	DATE
A1	INITIAL RELEASE		

NOTES:
1. DIMENSIONS ARE IN MILLIMETERS.

2. MANUFACTURING SPECIFICATIONS:
ADDITIONAL OPTIONS AVAILABLE UPON REQUEST.

2.1 BASE MATERIAL: FR4-TG130

2.2 LAYERS: TWO (2)

2.3 COPPER WEIGHT:
DEFAULT:
- ONE OUNCE (1 oz)

AVAILABLE UPON REQUEST:
- TWO OUNCE (2 oz)

2.4 PIECES PER PANEL: FOUR (4)

2.5 PCB THICKNESS:
DEFAULT:
- 1.60 MM

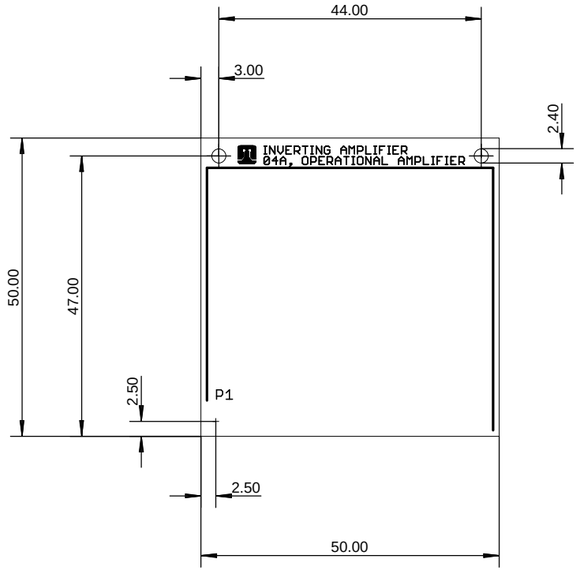
AVAILABLE UPON REQUEST:
- 0.6 MM
- 0.8 MM
- 1.0 MM
- 1.2 MM
- 2.0 MM

2.6 PCB COLOR:
DEFAULT:
- GREEN

AVAILABLE UPON REQUEST:
- RED
- YELLOW
- BLUE
- WHITE
- BLACK
- MATTE BLACK

2.7 SURFACE FINISH:
DEFAULT:
- HOT AIR SOLDER LEVELED (HASL)

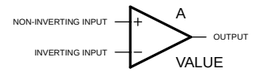
AVAILABLE UPON REQUEST:
- LEAD FREE HOT AIR SOLDER LEVELED (HASL LEAD FREE)
- ELECTROLESS NICKEL IMMERSION GOLD (ENIG)
- ORGANIC SOLDERABILITY PRESERVATIVES (OSP)

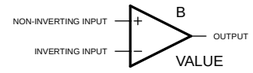


DUAL OPAMP

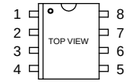
SOIC8, DIP8

SCHEMATIC SYMBOL





PINOUT



PIN	DESCRIPTION
1	OUTPUT, A
2	INVERTING INPUT, A
3	NON-INVERTING INPUT, A
4	-V SUPPLY
5	NON-INVERTING INPUT, B
6	INVERTING INPUT, B
7	OUTPUT, B
8	+V SUPPLY

DATETIME STAMP
8/28/2023 7:58 PM

DR DATE
N. MANTEUFEL

ENG DATE

QA DATE

mnPCB

TITLE
INVERTING AMPLIFIER

PRINTED CIRCUIT BOARD
AMPLIFIERS, OPAMPS
INVERTING AMPLIFIER
SINGLE SUPPLY, DC BIAS JUMPER, THD

SIZE	DWG NO	REV
B	04A-005	A1

SCALE NONE SHEET 1/2

NOTES:
3. PERFORMANCE FUNCTIONS:
3.1 AMPLIFIER PERFORMANCE:
- INPUT SIGNAL IS INVERTED AND AMPLIFIED.

3.2
- DC BIAS BLOCKED BY INPUT CAPACITOR WHEN JUMPER REMOVED.

4. CALIBRATION ADJUSTMENT PROCEDURE:

4.1 PURPOSE
- SET OUTPUT DC BIAS TO HALF OF SUPPLY VOLTAGE.

4.2 SCOPE
- PERFORM DURING CALIBRATION PROCEDURE.

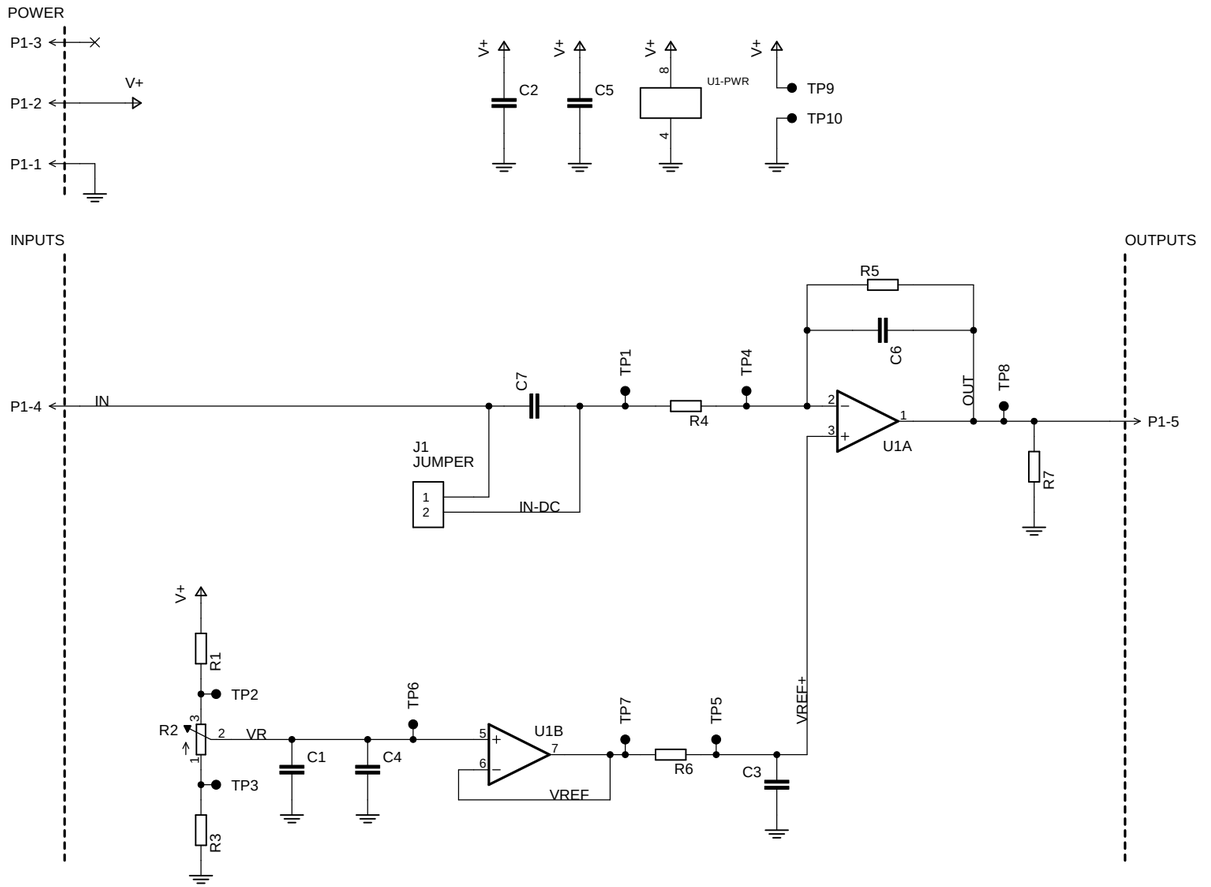
4.3 PROCEDURAL NOTES
- PERFORM AFTER SAFE TO TURN ON (STTO) TEST PASSES.

4.4 PROCEDURE
4.4.1 APPLY POWER:
- SUPPLY VOLTAGE DETERMINES TARGET ADJUSTMENT.

4.4.2 APPLY STIMULI:
- ALLOW PIN P1-4 TO FLOAT.

4.4.3 MEASURE RESPONSE:
- MEASURE OUTPUT VOLTAGE DC BIAS.

4.4.4 ADJUST R2 TRIMMER POTENTIOMETER:
- PASS WHEN MEASUREMENT EQUALS HALF OF SUPPLY VOLTAGE.



TITLE	INVERTING AMPLIFIER CIRCUIT		
SIZE B	DWG NO 04A-005		REV A1
SCALE NONE		SHEET 2/2	