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

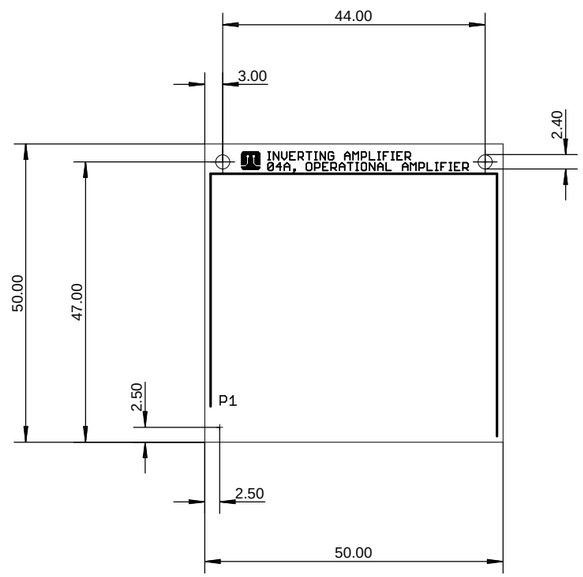
AVAILABLE UPON REQUEST:
- 0.6 MM
- 0.8 MM
- 1.0 MM
- 1.2 MM
- 2.0 MM

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)



FIND	REF DES	DESCRIPTION	MANUFACTURER	PART NUMBER
21				
20				
19				
18				
17				
16				
15				
14				
13				
12	R4	RESISTOR, METAL FILM, 50Ω, 1/4W, 2%	VISHAY	PTF6550R000BYEK
11	R3	RESISTOR, METAL FILM, 100Ω, 1/4W, 2%	VISHAY	RL07S101GRE6
10	R2	RESISTOR, TRIMMER, 100kΩ, 3/8" SQ	VISHAY	T93YA104KT20
9	R1	RESISTOR, METAL FILM, 100Ω, 1/4W, 2%	VISHAY	RL07S101GRE6
8	P1	HEADER, 2mm PITCH, 5P, RA	MOLEX	87754-0552
7	C6	CAPACITOR, MLCC, LEADED, LS: 5mm, 1000pF 100V, X7S	TDK	FA24NP02W102JNU06
6	C5	ALUMINUM ELECTROLYTIC CAPACITOR, RADIAL, 47uF 100V	NICHICON	UFW2A470MPD
5	C4	CAPACITOR, MLCC, LEADED, LS: 5mm, 47nF 100V, X7S	TDK	FA28X7S2A473KRU06
4	C3	CAPACITOR, MLCC, LEADED, LS: 5mm, 47nF 100V, X7S	TDK	FA28X7S2A473KRU06
3	C2	CAPACITOR, MLCC, LEADED, LS: 5mm, 47nF 100V, X7S	TDK	FA28X7S2A473KRU06
2	C1	ALUMINUM ELECTROLYTIC CAPACITOR, RADIAL, 47uF 100V	NICHICON	UFW2A470MPD
1	—	PCB, BARE BOARD	miniPCB.com	04A-005

PARTS LIST

DATETIME STAMP	9/30/2023 4:53 PM
DR	N. MANTEUFEL
DATE	
ENG	
DATE	
QA	
DATE	

TITLE
INVERTING AMPLIFIER

PRINTED CIRCUIT BOARD
CATEGORY: 04A, AMPLIFIERS, OPAMPS
CIRCUIT: INVERTING AMPLIFIER
VARIANT: SINGLE SUPPLY, THD

SIZE	DWG NO	REV
B	04A-005	A1
SCALE NONE	SHEET 1/2	

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IS PROVIDED FOR EDUCATIONAL USE ONLY.