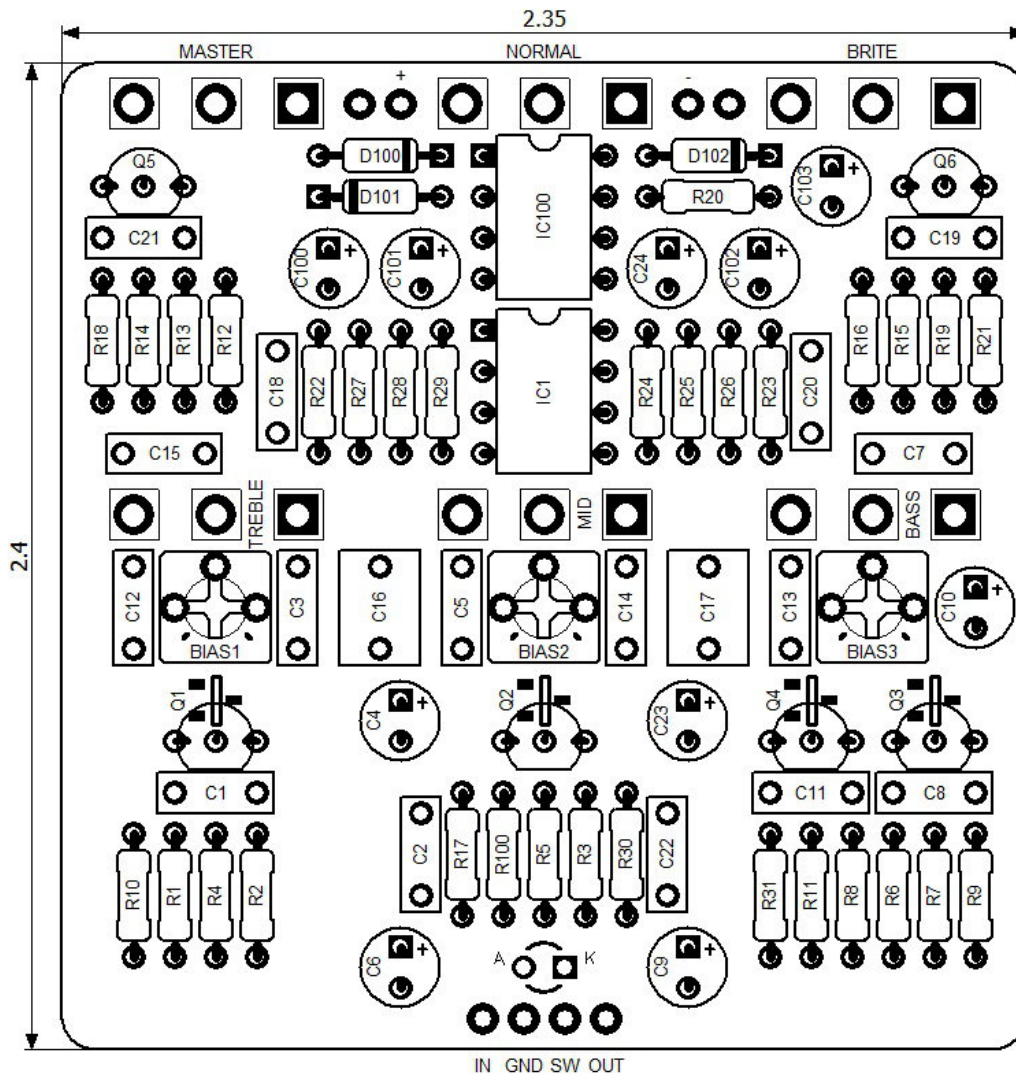


# PedalPCB

## Mofeta Preamp

Revised 7/18/21



## CONTROLS AND FEATURES

- Brite
- Normal
- Master
- Bass
- Mid
- Treble

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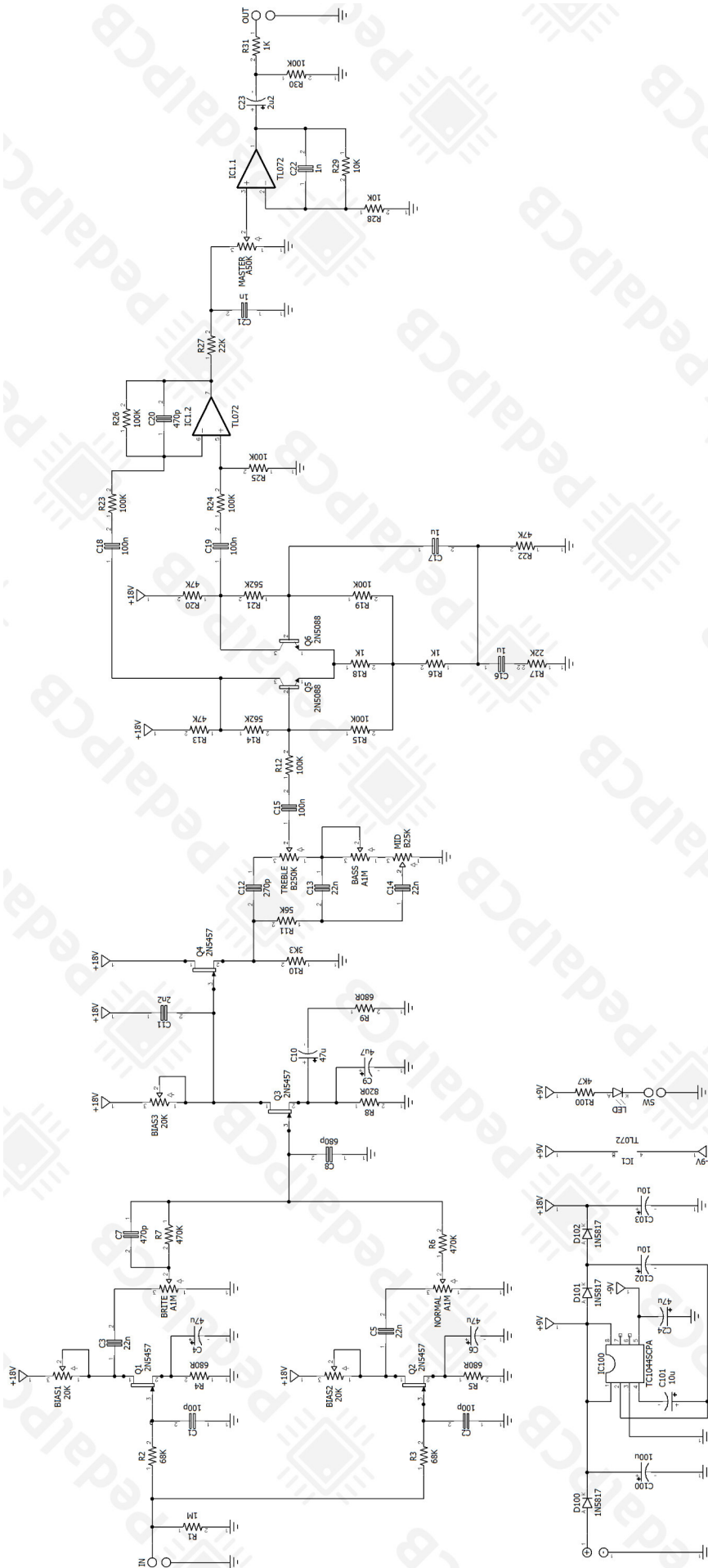
| LOCATION | VALUE | TYPE                        | NOTES         |
|----------|-------|-----------------------------|---------------|
| R1       | 1M    | Resistor, 1/4W              |               |
| R2       | 68K   | Resistor, 1/4W              |               |
| R3       | 68K   | Resistor, 1/4W              |               |
| R4       | 680R  | Resistor, 1/4W              |               |
| R5       | 680R  | Resistor, 1/4W              |               |
| R6       | 470K  | Resistor, 1/4W              |               |
| R7       | 470K  | Resistor, 1/4W              |               |
| R8       | 820R  | Resistor, 1/4W              |               |
| R9       | 680R  | Resistor, 1/4W              |               |
| R10      | 3K3   | Resistor, 1/4W              |               |
| R11      | 56K   | Resistor, 1/4W              |               |
| R12      | 100K  | Resistor, 1/4W              |               |
| R13      | 47K   | Resistor, 1/4W              |               |
| R14      | 562K  | Resistor, 1/4W              |               |
| R15      | 100K  | Resistor, 1/4W              |               |
| R16      | 1K    | Resistor, 1/4W              |               |
| R17      | 22K   | Resistor, 1/4W              |               |
| R18      | 1K    | Resistor, 1/4W              |               |
| R19      | 100K  | Resistor, 1/4W              |               |
| R20      | 47K   | Resistor, 1/4W              |               |
| R21      | 562K  | Resistor, 1/4W              |               |
| R22      | 47K   | Resistor, 1/4W              |               |
| R23      | 100K  | Resistor, 1/4W              |               |
| R24      | 100K  | Resistor, 1/4W              |               |
| R25      | 100K  | Resistor, 1/4W              |               |
| R26      | 100K  | Resistor, 1/4W              |               |
| R27      | 22K   | Resistor, 1/4W              |               |
| R28      | 10K   | Resistor, 1/4W              |               |
| R29      | 10K   | Resistor, 1/4W              |               |
| R30      | 100K  | Resistor, 1/4W              |               |
| R31      | 1K    | Resistor, 1/4W              |               |
| R100     | 4K7   | Resistor, 1/4W              |               |
|          |       |                             |               |
| C1       | 100p  | Ceramic capacitor           |               |
| C2       | 100p  | Ceramic capacitor           |               |
| C3       | 22n   | Film capacitor, 7.2 x 2.5mm |               |
| C4       | 47u   | Electrolytic capacitor, 5mm | ⚡ Minimum 25V |
| C5       | 22n   | Film capacitor, 7.2 x 2.5mm |               |
| C6       | 47u   | Electrolytic capacitor, 5mm | ⚡ Minimum 25V |
| C7       | 470p  | Ceramic capacitor           |               |
| C8       | 680p  | Ceramic capacitor           |               |
| C9       | 4u7   | Electrolytic capacitor, 5mm | ⚡ Minimum 25V |
| C10      | 47u   | Electrolytic capacitor, 5mm | ⚡ Minimum 25V |
| C11      | 2n2   | Film capacitor, 7.2 x 2.5mm |               |
| C12      | 270p  | Ceramic capacitor           |               |
| C13      | 22n   | Film capacitor, 7.2 x 2.5mm |               |
| C14      | 22n   | Film capacitor, 7.2 x 2.5mm |               |
| C15      | 100n  | Film capacitor, 7.2 x 2.5mm |               |

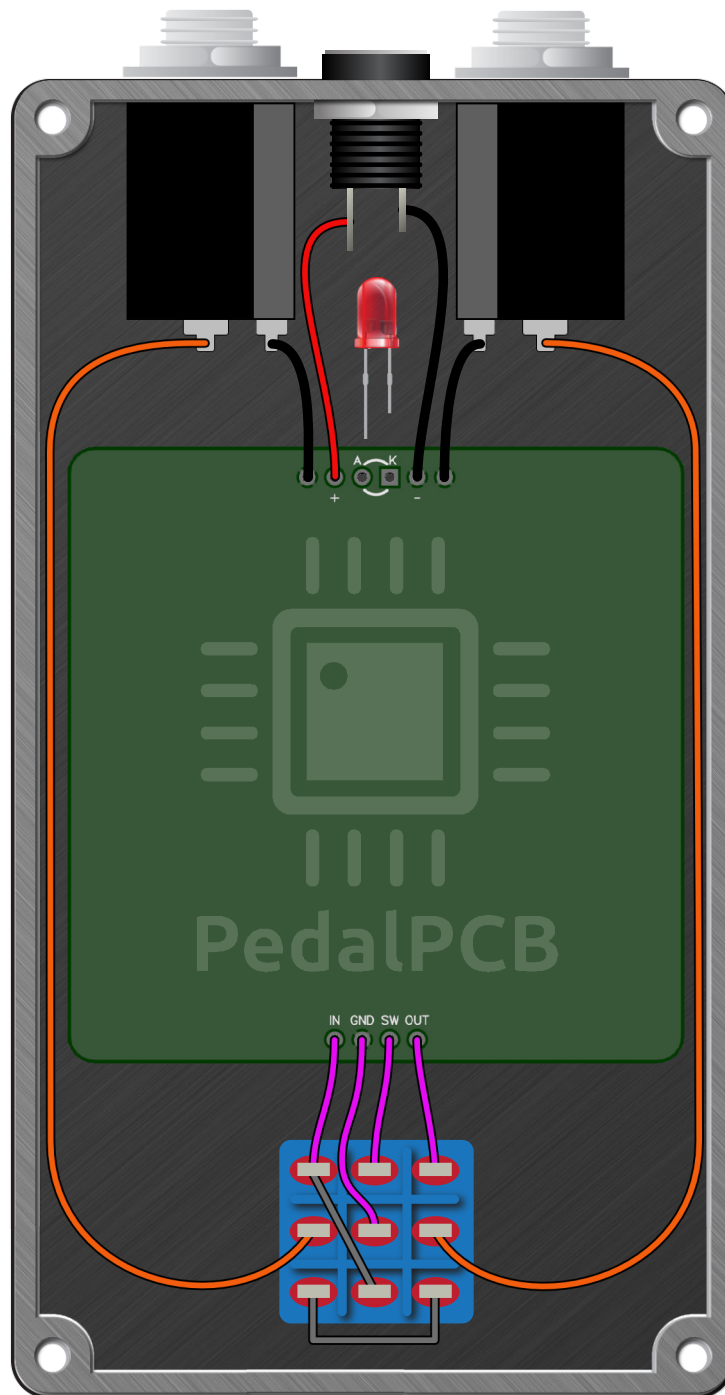
| LOCATION | VALUE      | TYPE                           | NOTES         |
|----------|------------|--------------------------------|---------------|
| C16      | 1u         | Film capacitor, 7.2 x 5.0mm    |               |
| C17      | 1u         | Film capacitor, 7.2 x 5.0mm    |               |
| C18      | 100n       | Film capacitor, 7.2 x 2.5mm    |               |
| C19      | 100n       | Film capacitor, 7.2 x 2.5mm    |               |
| C20      | 470p       | Ceramic capacitor              |               |
| C21      | 1n         | Film capacitor, 7.2 x 2.5mm    |               |
| C22      | 1n         | Film capacitor, 7.2 x 2.5mm    |               |
| C23      | 2u2        | Electrolytic capacitor, 5mm    | ⚡ Minimum 25V |
| C24      | 47u        | Electrolytic capacitor, 5mm    | ⚡ Minimum 25V |
| C100     | 100u       | Electrolytic capacitor, 5mm    |               |
| C101     | 10u        | Electrolytic capacitor, 5mm    | ⚡ Minimum 25V |
| C102     | 10u        | Electrolytic capacitor, 5mm    | ⚡ Minimum 25V |
| C103     | 10u        | Electrolytic capacitor, 5mm    | ⚡ Minimum 25V |
|          |            |                                |               |
| D100     | 1N5817     | Schottky diode, DO-41          |               |
| D101     | 1N5817     | Schottky diode, DO-41          |               |
| D102     | 1N5817     | Schottky diode, DO-41          |               |
|          |            |                                |               |
| Q1       | 2N5457     | JFET transistor, N-channel     |               |
| Q2       | 2N5457     | JFET transistor, N-channel     |               |
| Q3       | 2N5457     | JFET transistor, N-channel     |               |
| Q4       | 2N5457     | JFET transistor, N-channel     |               |
| Q5       | 2N5088     | BJT transistor, NPN TO-92      |               |
| Q6       | 2N5088     | BJT transistor, NPN TO-92      |               |
|          |            |                                |               |
| IC1      | TL072      | Dual op-amp, DIP8              |               |
| IC100    | TC1044SCPA | Charge pump IC, DIP8           |               |
|          |            |                                |               |
| BRITE    | A1M        | 16mm right-angle PCB mount pot |               |
| NORMAL   | A1M        | 16mm right-angle PCB mount pot |               |
| MASTER   | A50K       | 16mm right-angle PCB mount pot |               |
| BASS     | A1M        | 16mm right-angle PCB mount pot |               |
| MID      | B25K       | 16mm right-angle PCB mount pot |               |
| TREBLE   | B250K      | 16mm right-angle PCB mount pot |               |
|          |            |                                |               |
| BIAS1    | 20K        | Trimmer potentiometer          | 3362P type    |
| BIAS2    | 20K        | Trimmer potentiometer          | 3362P type    |
| BIAS3    | 20K        | Trimmer potentiometer          | 3362P type    |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |
|          |            |                                |               |



# Mofeta Preamp

## Schematic Diagram





# Mofeta Preamp

Drill Template  
125B Enclosure

