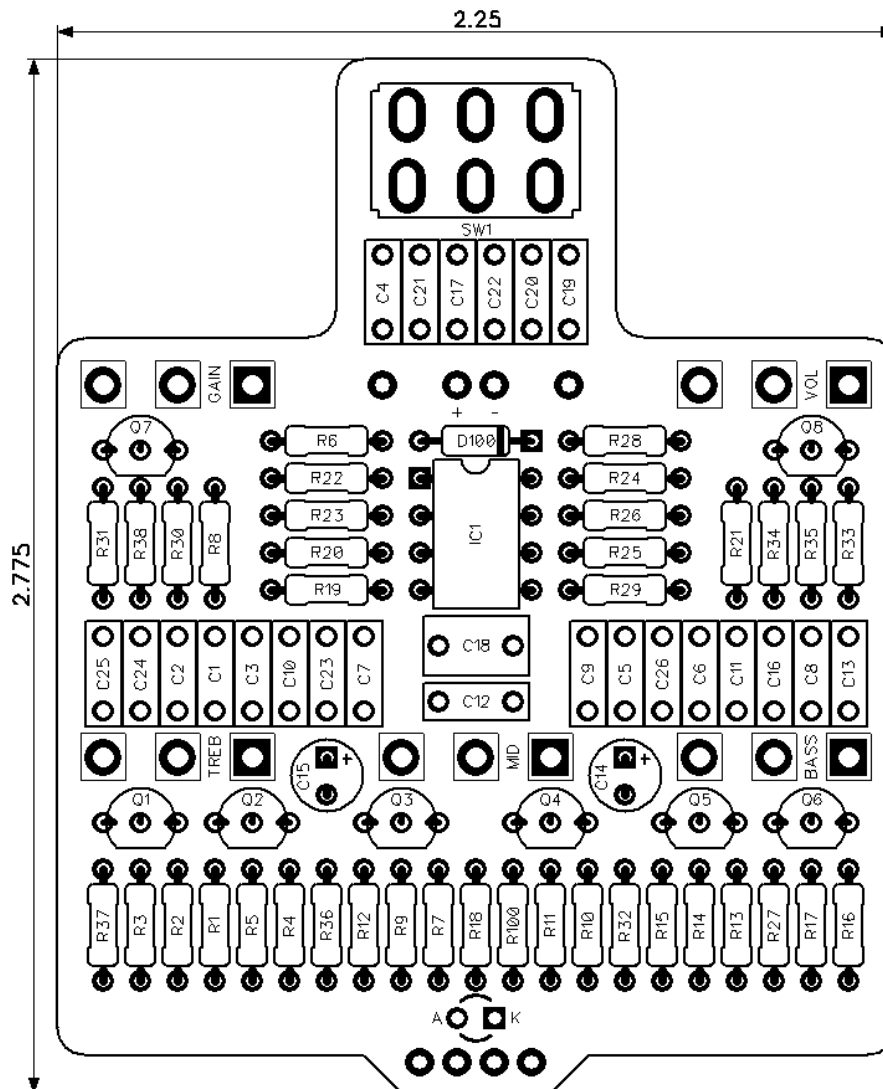


# PedalPCB

## Nucleus Overdrive

Revised 2/19/21



### CONTROLS AND FEATURES

- Volume
- Gain
- Bass
- Mid
- Treble
- Mid Select (Toggle switch)

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| LOCATION | VALUE | TYPE                        | NOTES |
|----------|-------|-----------------------------|-------|
| R1       | 1M    | Resistor, 1/4W              |       |
| R2       | 390R  | Resistor, 1/4W              |       |
| R3       | 680R  | Resistor, 1/4W              |       |
| R4       | 1M    | Resistor, 1/4W              |       |
| R5       | 1M    | Resistor, 1/4W              |       |
| R6       | 470K  | Resistor, 1/4W              |       |
| R7       | 390R  | Resistor, 1/4W              |       |
| R8       | 1M    | Resistor, 1/4W              |       |
| R9       | 120R  | Resistor, 1/4W              |       |
| R10      | 1M    | Resistor, 1/4W              |       |
| R11      | 1M    | Resistor, 1/4W              |       |
| R12      | 200K  | Resistor, 1/4W              |       |
| R13      | 82K   | Resistor, 1/4W              |       |
| R14      | 5K6   | Resistor, 1/4W              |       |
| R15      | 100K  | Resistor, 1/4W              |       |
| R16      | 820K  | Resistor, 1/4W              |       |
| R17      | 1M    | Resistor, 1/4W              |       |
| R18      | 47K   | Resistor, 1/4W              |       |
| R19      | 3K3   | Resistor, 1/4W              |       |
| R20      | 1M    | Resistor, 1/4W              |       |
| R21      | 470R  | Resistor, 1/4W              |       |
| R22      | 10K   | Resistor, 1/4W              |       |
| R23      | 3K3   | Resistor, 1/4W              |       |
| R24      | 100K  | Resistor, 1/4W              |       |
| R25      | 200K  | Resistor, 1/4W              |       |
| R26      | 100R  | Resistor, 1/4W              |       |
| R27      | 10K   | Resistor, 1/4W              |       |
| R28      | 10K   | Resistor, 1/4W              |       |
| R29      | 10K   | Resistor, 1/4W              |       |
| R30      | 300R  | Resistor, 1/4W              |       |
| R31      | 1K    | Resistor, 1/4W              |       |
| R32      | 2K    | Resistor, 1/4W              |       |
| R33      | 100K  | Resistor, 1/4W              |       |
| R34      | 300R  | Resistor, 1/4W              |       |
| R35      | 4K7   | Resistor, 1/4W              |       |
| R36      | 220R  | Resistor, 1/4W              |       |
| R37      | 100K  | Resistor, 1/4W              |       |
| R38      | 100K  | Resistor, 1/4W              |       |
| R100     | 4K7   | Resistor, 1/4W              |       |
|          |       |                             |       |
| C1       | 120p  | Ceramic capacitor           |       |
| C2       | 68n   | Film capacitor, 7.2 x 2.5mm |       |
| C3       | 22n   | Film capacitor, 7.2 x 2.5mm |       |
| C4       | 470p  | Ceramic capacitor           |       |
| C5       | 100n  | Film capacitor, 7.2 x 2.5mm |       |
| C6       | 22n   | Film capacitor, 7.2 x 2.5mm |       |
| C7       | 220p  | Ceramic capacitor           |       |
| C8       | 68n   | Film capacitor, 7.2 x 2.5mm |       |

| LOCATION | VALUE     | TYPE                           | NOTES                  |
|----------|-----------|--------------------------------|------------------------|
| C9       | 1u        | MLCC capacitor, 7.2 x 2.5mm    |                        |
| C10      | 12n       | Film capacitor, 7.2 x 2.5mm    |                        |
| C11      | 1u        | MLCC capacitor, 7.2 x 2.5mm    |                        |
| C12      | 10n       | Film capacitor, 7.2 x 2.5mm    |                        |
| C13      | 1u        | MLCC capacitor, 7.2 x 2.5mm    |                        |
| C14      | 22u       | Electrolytic capacitor, 5mm    |                        |
| C15      | 100u      | Electrolytic capacitor, 5mm    |                        |
| C16      | 100n      | Film capacitor, 7.2 x 2.5mm    |                        |
| C17      | 100n      | Film capacitor, 7.2 x 2.5mm    |                        |
| C18      | 330n      | Film capacitor, 7.2 x 5.0mm    |                        |
| C19      | 47n       | Film capacitor, 7.2 x 2.5mm    |                        |
| C20      | 4n7       | Film capacitor, 7.2 x 2.5mm    |                        |
| C21      | 10n       | Film capacitor, 7.2 x 2.5mm    |                        |
| C22      | 2n2       | Film capacitor, 7.2 x 2.5mm    |                        |
| C23      | 22n       | Film capacitor, 7.2 x 2.5mm    |                        |
| C24      | 1u        | MLCC capacitor, 7.2 x 2.5mm    |                        |
| C25      | 220p      | Ceramic capacitor              |                        |
| C26      | 220p      | Ceramic capacitor              |                        |
|          |           |                                |                        |
| D100     | 1N5817    | Schottky diode, DO-41          |                        |
|          |           |                                |                        |
| Q1       | 2N5457    | JFET transistor, N-channel     |                        |
| Q2       | 2N5457    | JFET transistor, N-channel     |                        |
| Q3       | J201      | JFET transistor, N-channel     |                        |
| Q4       | J201      | JFET transistor, N-channel     |                        |
| Q5       | 2N5457    | JFET transistor, N-channel     |                        |
| Q6       | 2N5457    | JFET transistor, N-channel     |                        |
| Q7       | 2N5089    | BJT transistor, NPN TO-92      |                        |
| Q8       | 2N5089    | BJT transistor, NPN TO-92      |                        |
|          |           |                                |                        |
| IC1      | TL072     | Dual op-amp, DIP8              |                        |
|          |           |                                |                        |
| VOLUME   | A10K      | 16mm right-angle PCB mount pot |                        |
| GAIN     | A1M       | 16mm right-angle PCB mount pot |                        |
| BASS     | B25K      | 16mm right-angle PCB mount pot |                        |
| MID      | B25K      | 16mm right-angle PCB mount pot |                        |
| TREBLE   | B25K      | 16mm right-angle PCB mount pot |                        |
|          |           |                                |                        |
| SW1      | ON/OFF/ON | Toggle switch, DPDT            | 3-position (ON/OFF/ON) |
|          |           |                                |                        |
|          |           |                                |                        |
|          |           |                                |                        |
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