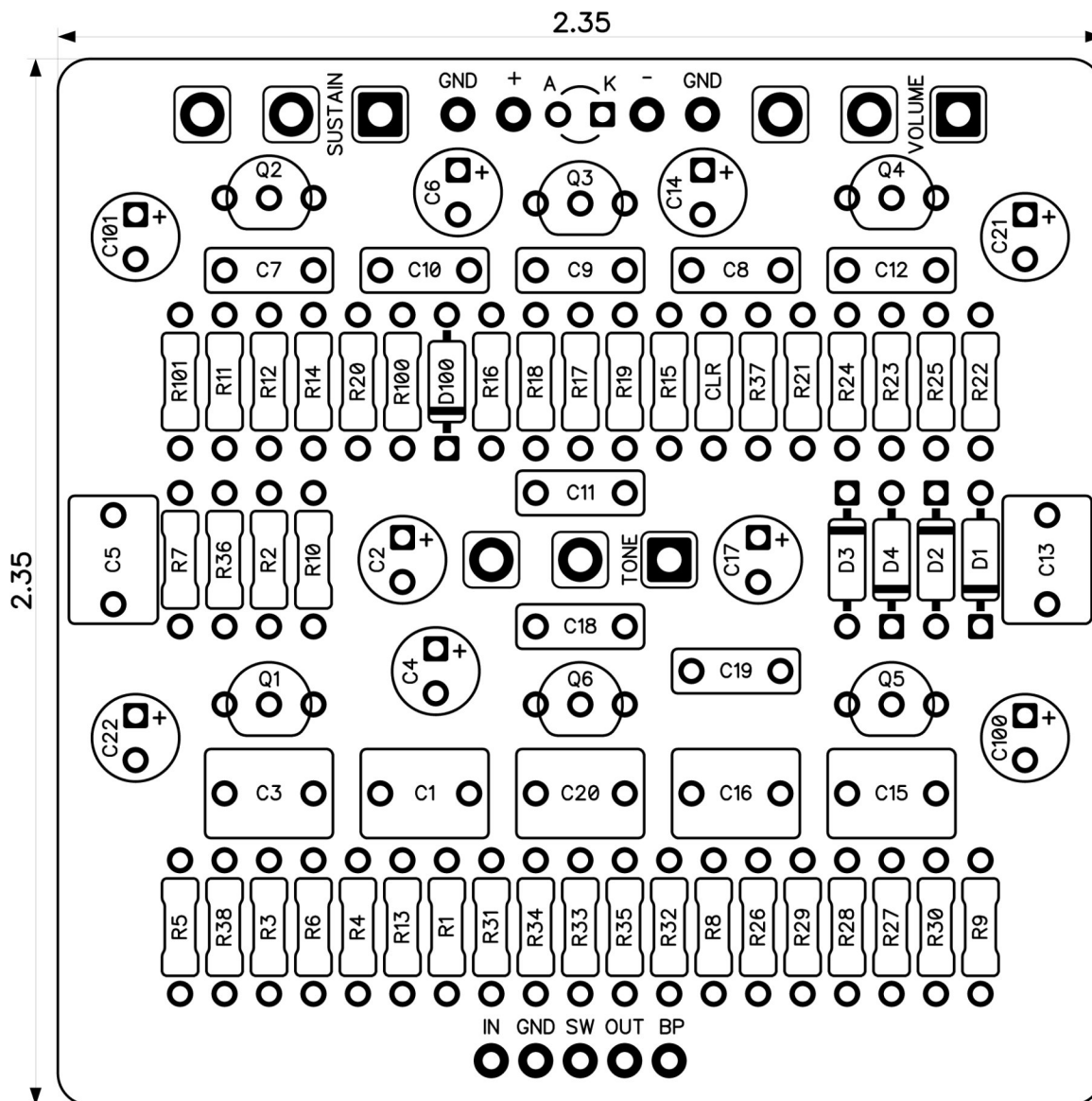




# Polonium<sup>2</sup> Distortion

Revised 12/16/23



## CONTROLS AND FEATURES

- Volume
- Tone
- Sustain

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| LOCATION | VALUE | TYPE                      | NOTES                           |
|----------|-------|---------------------------|---------------------------------|
| R1       | 10M   | Resistor, 1/4W            |                                 |
| R2       | 1K    | Resistor, 1/4W            |                                 |
| R3       | 120K  | Resistor, 1/4W            |                                 |
| R4       | 200K  | Resistor, 1/4W            |                                 |
| R5       | 120K  | Resistor, 1/4W            |                                 |
| R6       | 7K5   | Resistor, 1/4W            |                                 |
| R7       | 10K   | Resistor, 1/4W            |                                 |
| R8       | 51R   | Resistor, 1/4W            |                                 |
| R9       | 1M    | Resistor, 1/4W            |                                 |
| R10      | 1K    | Resistor, 1/4W            |                                 |
| R11      | 68K   | Resistor, 1/4W            |                                 |
| R12      | 120K  | Resistor, 1/4W            |                                 |
| R13      | 150K  | Resistor, 1/4W            |                                 |
| R14      | 10K   | Resistor, 1/4W            |                                 |
| R15      | 39K   | Resistor, 1/4W            |                                 |
| R16      | 100K  | Resistor, 1/4W            |                                 |
| R17      | 470K  | Resistor, 1/4W            |                                 |
| R18      | 15K   | Resistor, 1/4W            |                                 |
| R19      | 100R  | Resistor, 1/4W            |                                 |
| R20      | 1K    | Resistor, 1/4W            |                                 |
| R21      | 8K2   | Resistor, 1/4W            |                                 |
| R22      | 100K  | Resistor, 1/4W            |                                 |
| R23      | 470K  | Resistor, 1/4W            |                                 |
| R24      | 15K   | Resistor, 1/4W            |                                 |
| R25      | 100R  | Resistor, 1/4W            |                                 |
| R26      | 8K2   | Resistor, 1/4W            |                                 |
| R27      | 100K  | Resistor, 1/4W            |                                 |
| R28      | 470K  | Resistor, 1/4W            |                                 |
| R29      | 15K   | Resistor, 1/4W            |                                 |
| R30      | 100R  | Resistor, 1/4W            |                                 |
| R31      | 100K  | Resistor, 1/4W            |                                 |
| R32      | 390K  | Resistor, 1/4W            |                                 |
| R33      | 100K  | Resistor, 1/4W            |                                 |
| R34      | 10K   | Resistor, 1/4W            |                                 |
| R35      | 2K2   | Resistor, 1/4W            |                                 |
| R36      | 1K2   | Resistor, 1/4W            |                                 |
| R37      | 39K   | Resistor, 1/4W            |                                 |
| R38      | 100R  | Resistor, 1/4W            |                                 |
| R100     | 100R  | Resistor, 1/4W            |                                 |
| R101     | 100R  | Resistor, 1/4W            |                                 |
| CLR      | 4K7   | Resistor, 1/4W            | * LED current limiting resistor |
|          |       |                           |                                 |
|          |       | Continued on next page... |                                 |
|          |       |                           |                                 |
|          |       |                           |                                 |

| LOCATION | VALUE  | TYPE                           | NOTES |
|----------|--------|--------------------------------|-------|
| C1       | 100n   | Film capacitor, 7.2 x 2.5mm    |       |
| C2       | 4u7    | Electrolytic capacitor, 5mm    |       |
| C3       | 1n     | Film capacitor, 7.2 x 2.5mm    |       |
| C4       | 22u    | Electrolytic capacitor, 5mm    |       |
| C5       | 220n   | Film capacitor, 7.2 x 5.0mm    |       |
| C6       | 4u7    | Electrolytic capacitor, 5mm    |       |
| C7       | 10n    | Film capacitor, 7.2 x 2.5mm    |       |
| C8       | 39n    | Film capacitor, 7.2 x 2.5mm    |       |
| C9       | 470p   | Ceramic capacitor              |       |
| C10      | 39n    | Film capacitor, 7.2 x 2.5mm    |       |
| C11      | 56n    | Film capacitor, 7.2 x 2.5mm    |       |
| C12      | 470p   | Ceramic capacitor              |       |
| C13      | 220n   | Film capacitor, 7.2 x 5.0mm    |       |
| C14      | 4u7    | Electrolytic capacitor, 5mm    |       |
| C15      | 470p   | Ceramic capacitor              |       |
| C16      | 220n   | Film capacitor, 7.2 x 5.0mm    |       |
| C17      | 4u7    | Electrolytic capacitor, 5mm    |       |
| C18      | 10n    | Film capacitor, 7.2 x 2.5mm    |       |
| C19      | 220n   | Film capacitor, 7.2 x 5.0mm    |       |
| C20      | 22n    | Film capacitor, 7.2 x 2.5mm    |       |
| C21      | 22u    | Electrolytic capacitor, 5mm    |       |
| C22      | 220u   | Electrolytic capacitor, 5mm    |       |
| C100     | 220u   | Electrolytic capacitor, 5mm    |       |
| C101     | 100u   | Electrolytic capacitor, 5mm    |       |
|          |        |                                |       |
| D1       | 1N4148 | Signal diode, DO-35            |       |
| D2       | 1N4148 | Signal diode, DO-35            |       |
| D3       | 1N4148 | Signal diode, DO-35            |       |
| D4       | 1N4148 | Signal diode, DO-35            |       |
| D100     | 1N5817 | Schottky diode, DO-41          |       |
|          |        |                                |       |
| Q1       | BC549C | BJT transistor, NPN TO-92      |       |
| Q2       | BC549C | BJT transistor, NPN TO-92      |       |
| Q3       | BC549C | BJT transistor, NPN TO-92      |       |
| Q4       | BC549C | BJT transistor, NPN TO-92      |       |
| Q5       | BC549C | BJT transistor, NPN TO-92      |       |
| Q6       | BC549C | BJT transistor, NPN TO-92      |       |
|          |        |                                |       |
| VOLUME   | A10K   | 16mm right-angle PCB mount pot |       |
| TONE     | B25K   | 16mm right-angle PCB mount pot |       |
| SUSTAIN  | A100K  | 16mm right-angle PCB mount pot |       |
|          |        |                                |       |
|          |        |                                |       |
|          |        |                                |       |
|          |        |                                |       |

