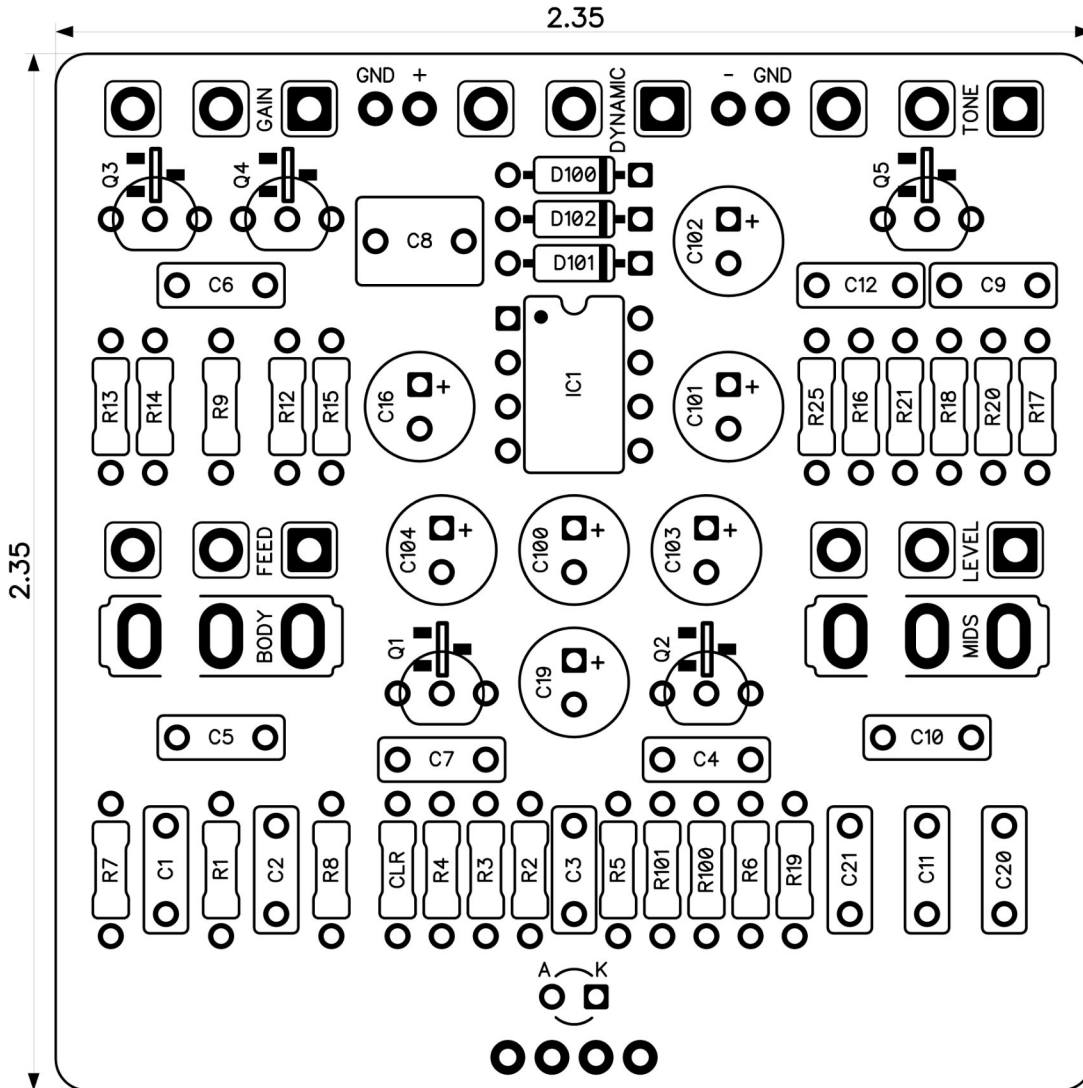


# PedalPCB

## Deofol Overdrive

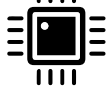
Revised 3/20/24










### CONTROLS AND FEATURES

- Tone
- Dynamic
- Gain
- Level
- Feed
- Mids (Toggle switch)
- Body (Toggle switch)

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LOCATION	VALUE	TYPE	NOTES
R1	47K	Resistor, 1/4W	
R2	47K	Resistor, 1/4W	
R3	1M	Resistor, 1/4W	
R4	750R	Resistor, 1/4W	
R5	1K	Resistor, 1/4W	
R6	470K	Resistor, 1/4W	
R7	1K	Resistor, 1/4W	
R8	10K	Resistor, 1/4W	
R9	470K	Resistor, 1/4W	
R12	10K	Resistor, 1/4W	
R13	100R	Resistor, 1/4W	
R14	1K	Resistor, 1/4W	
R15	470K	Resistor, 1/4W	
R16	47K	Resistor, 1/4W	
R17	39K	Resistor, 1/4W	
R18	100K	Resistor, 1/4W	
R19	10K	Resistor, 1/4W	
R20	1M	Resistor, 1/4W	
R21	10K	Resistor, 1/4W	
R25	220K	Resistor, 1/4W	
R100	10K	Resistor, 1/4W	
R101	10K	Resistor, 1/4W	
CLR	4K7	Resistor, 1/4W	* LED current limiting resistor
C1	1n	Film capacitor, 7.2 x 2.5mm	
C2	22n	Film capacitor, 7.2 x 2.5mm	
C3	470p	Ceramic capacitor	
C4	47n	Film capacitor, 7.2 x 2.5mm	
C5	100n	Film capacitor, 7.2 x 2.5mm	
C6	470p	Ceramic capacitor	
C7	100n	Film capacitor, 7.2 x 2.5mm	
C8	1u	Film capacitor, 7.2 x 5.0mm	
C9	100n	Film capacitor, 7.2 x 2.5mm	
C10	3n3	Film capacitor, 7.2 x 2.5mm	
C11	3n3	Film capacitor, 7.2 x 2.5mm	
C12	100n	Film capacitor, 7.2 x 2.5mm	
C16	47u	Electrolytic capacitor, 5mm	 25V Minimum
C19	10u	Electrolytic capacitor, 5mm	 25V Minimum
C20	4n7	Film capacitor, 7.2 x 2.5mm	
C21	10n	Film capacitor, 7.2 x 2.5mm	
C100	100u	Electrolytic capacitor, 5mm	 25V Minimum
C101	10u	Electrolytic capacitor, 5mm	 25V Minimum
C102	10u	Electrolytic capacitor, 5mm	 25V Minimum
C103	10u	Electrolytic capacitor, 5mm	 25V Minimum
C104	47u	Electrolytic capacitor, 5mm	 25V Minimum
		Continued on next page...	



## Deofol Overdrive

## Parts List (Page 2 of 2)

[illegible]

**Original transistor parameters as measured by Peak Atlas DCA75****Q1**

$V_{gs(off)} = -0.63V$  at  $I_d = 5.0\mu A$

$V_{gs(on)} = 0.38V$  at  $I_d = 1.18mA$

$g_{fs} = 1.8mA/V$  at  $I_d = 0.7mA$  to  $1.2mA$

$I_{dss} = 0.51mA$  at  $V_{ds} = 3.01V$

$R_{ds(on)} = 572.7\Omega$  at  $I_d = 1.2mA$  and  $V_{gs} = 0.0V$

**Q2**

$V_{gs(off)} = -0.72V$  at  $I_d = 5.1\mu A$

$V_{gs(on)} = 0.36V$  at  $I_d = 1.28mA$

$g_{fs} = 1.9mA/V$  at  $I_d = 0.8mA$  to  $1.3mA$

$I_{dss} = 0.62mA$  at  $V_{ds} = 3.00V$

$R_{ds(on)} = 559.1\Omega$  at  $I_d = 1.3mA$  and  $V_{gs} = 0.0V$

**Q3**

$V_{gs(off)} = -0.67V$  at  $I_d = 4.7\mu A$

$V_{gs(on)} = 0.37V$  at  $I_d = 1.20mA$

$g_{fs} = 1.8mA/V$  at  $I_d = 0.7mA$  to  $1.2mA$

$I_{dss} = 0.55mA$  at  $V_{ds} = 3.01V$

$R_{ds(on)} = 584.5\Omega$  at  $I_d = 1.2mA$  and  $V_{gs} = 0.0V$

**Q4**

$V_{gs(off)} = -0.77V$  at  $I_d = 5.0\mu A$

$V_{gs(on)} = 0.34V$  at  $I_d = 1.30mA$

$g_{fs} = 1.9mA/V$  at  $I_d = 0.8mA$  to  $1.3mA$

$I_{dss} = 0.69mA$  at  $V_{ds} = 2.99V$

$R_{ds(on)} = 571.8\Omega$  at  $I_d = 1.3mA$  and  $V_{gs} = 0.0V$

**Q5**

$V_{gs(off)} = -0.67V$  at  $I_d = 5.3\mu A$

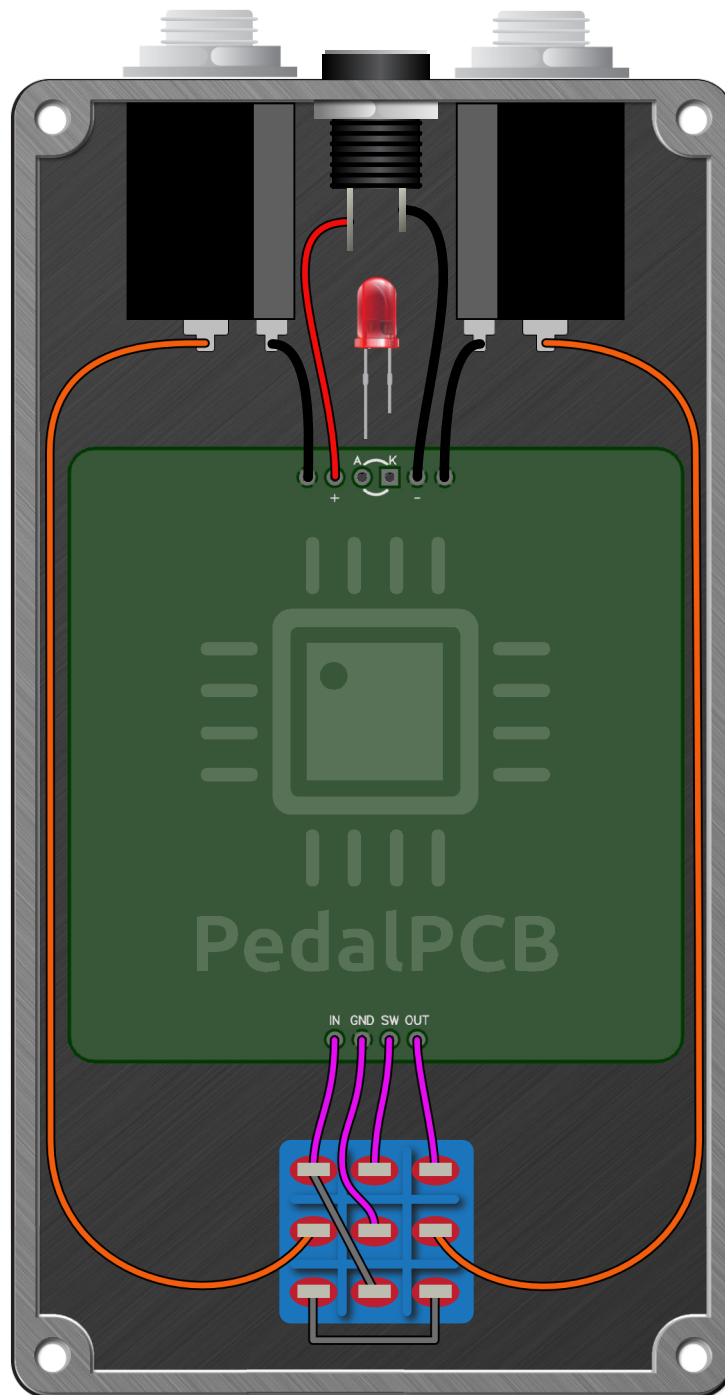
$V_{gs(on)} = 0.36V$  at  $I_d = 1.17mA$

$g_{fs} = 1.8mA/V$  at  $I_d = 0.7mA$  to  $1.2mA$

$I_{dss} = 0.53mA$  at  $V_{ds} = 3.00V$

$R_{ds(on)} = 585.3\Omega$  at  $I_d = 1.2mA$  and  $V_{gs} = 0.0V$





# Deofol Overdrive

Drill Template  
125B Enclosure

