Input Stage

C2
10uF

Pedal In

R6
10k

U2B
MCP6002-xMC

Pico In

R3
1k

R1
10k

+3V3

U2A
MCP6002-xMC

R4
10k

R7
22k

C1
10nF

R2
10k

10k
R5

C3
1nF

U2C
MCP6002-xMC

GND

GND   -4 V-   V+ 8   +3V3

SW2
RotaryEncoder_Switch

Encoder_A   A   S1   GND

GND   C

Encoder_B   B   S2 Encoder_SW

RV1
R_Potentiometer

+3V3   GND

POT

U1
Pico

40	VBUS		GPIO0	1
39	VSYS	Raspberry Pi Pico	GPIO1	2
38	GND		GND	3
37	3V3_EN		GPIO2	4
36	3V3		GPIO3	5
35	ADC_VREF		GPIO4	6
34	GPIO28_ADC2		GPIO5	7
33	AGND		GND	8
32	GPIO27_ADC1		GPIO6	9
31	GPIO26_ADC0		GPIO7	10
30	RUN		GPIO8	11
29	GPIO22		GPIO9	12
28	GND		GPIO10	13
27	GPIO21		GPIO11	14
26	GPIO20		GPIO12	15
25	GPIO19		GPIO13	16
24	GPIO18		GND	17
23	GND		GPIO14	18
22	GPIO17		GPIO15	19
21	GPIO16			20

+3V3
POT
Pico In
GND
Encoder_SW
Encoder_B
Encoder_A
GND

GND
SDA
SCL
GND
GND
GND

43 SWDIO
42 GND
41 SWCLK

Pico Out
Pico Out B

1/4'' Jacks

T   S   T Jack In

S   GND

AudioPlug2
J1

AudioPlug2
J2

GND   S

Jack Out   T   S   T

Output Stage

R8
400

U3A
MCP6002-xMC

R9
4k

U3B
MCP6002-xMC

C6
10uF

Pico Out

Pico Out B

R10
100k

C4
10nF

Pedal Out

C5
1nF

U3C
MCP6002-xMC

GND GND   -4 V-   V+ 8   +3V3

GND

GND

Bypass Switch

SW1A
SW_DPDT_x2

Bypass

Jack In   2

3   Pedal In

SW1B
SW_DPDT_x2

Jack Out 5

6   Pedal Out

OLED Display

J3
Conn_01x04_Pin

1
2   +3V3
3   GND   SCL
4   SDA