

Pioneers in Engineering

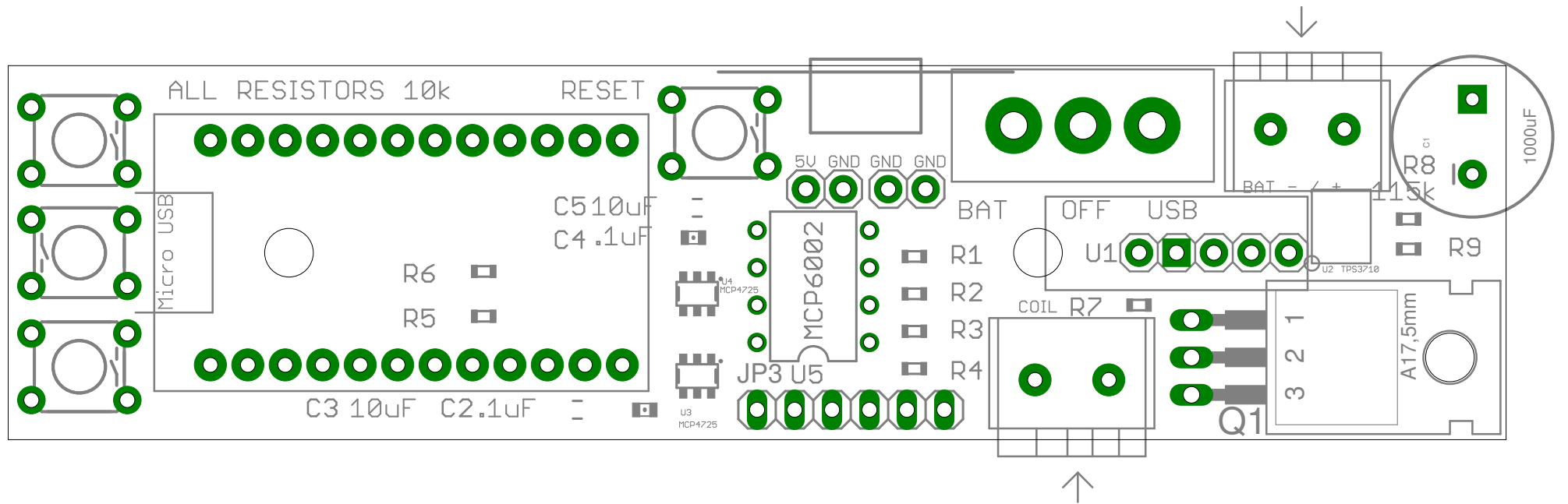
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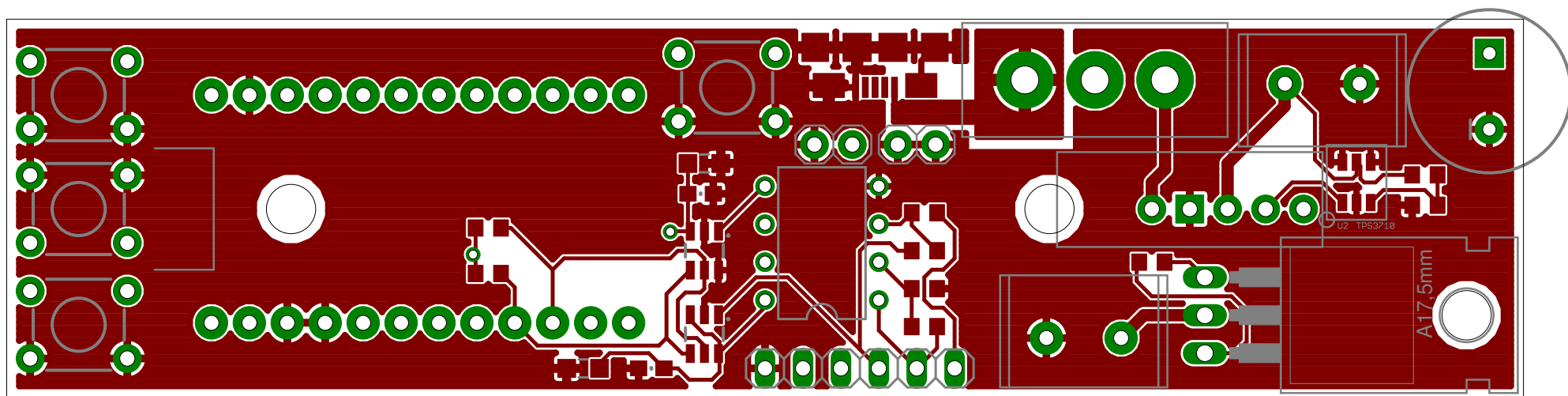
Design by:
Douglas Hutchings

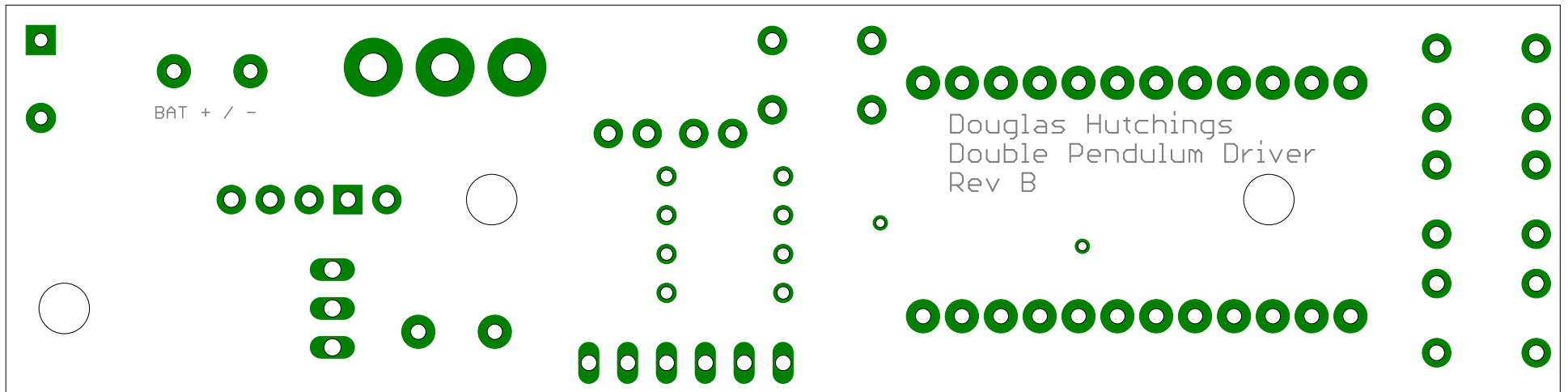
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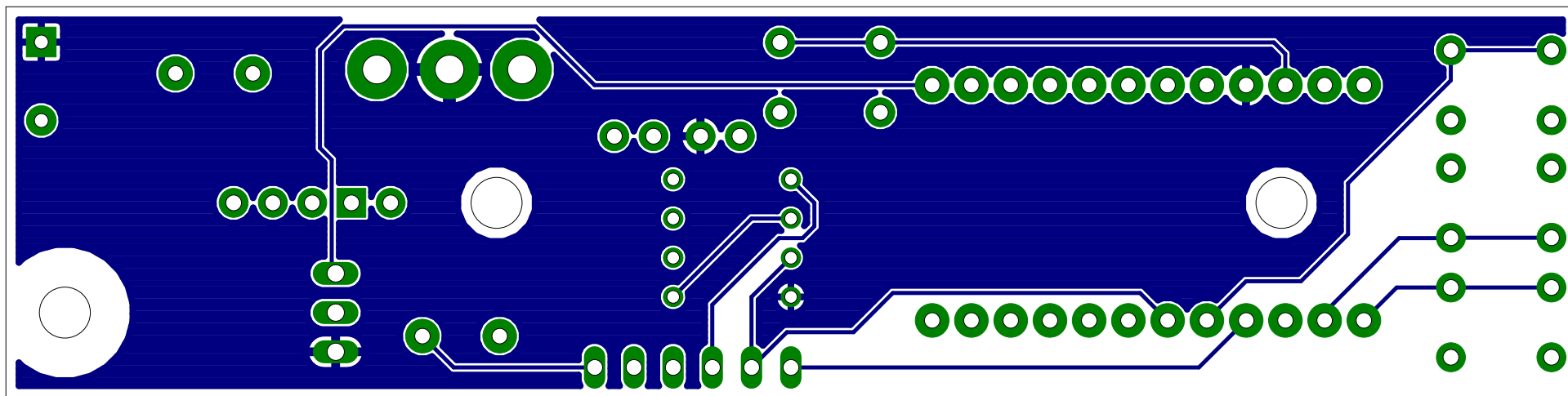
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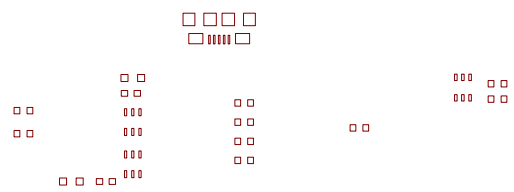
Sheet: 1/1











<u>Name</u>	<u>Value</u>	<u>Package</u>	<u>Notes</u>	<u>Ref Number</u>
C1	1000uF	CPOL- RADIAL- 1000UF-25V	Capacitor Polarized	
C2	.1uF	0603-CAP	Capacitor	CAPACITOR- GENERIC
C3	10uF	0805	Capacitor	CAPACITOR- GENERIC
C4	.1uF	0603-CAP	Capacitor	CAPACITOR- GENERIC
C5	10uF	0805	Capacitor	CAPACITOR- GENERIC
JP1		1X02	2-pin 0.1-inch header and MTA connector	BULK-STOCK
JP2		1X02	2-pin 0.1-inch header and MTA connector	BULK-STOCK
JP3		1X06	PIN HEADER	
Q1	IRLIB9343PBF- ND	TO220	P-Channel Enhancement MOSFET (HEXFET); -100V; -12A; 0,3Ohm	
R1	10K	R0603	RESISTOR, American symbol	
R2	10K	R0603	RESISTOR, American symbol	
R3	10K	R0603	RESISTOR, American symbol	
R4	10K	R0603	RESISTOR, American symbol	
R5	10K	R0603	RESISTOR, American symbol	
R6	10K	R0603	RESISTOR, American symbol	
R7	10K	R0603	RESISTOR, American symbol	
R8	115k	R0603	RESISTOR, American symbol	
R9	10K	R0603	RESISTOR, American symbol	
S1		TACTILE-PTH	Momentary Switch	pth_pushbutton
S2		TACTILE-PTH	Momentary Switch	pth_pushbutton
S3		TACTILE-PTH	Momentary Switch	pth_pushbutton
S4		TACTILE-PTH	Momentary Switch	pth_pushbutton
ST1	2PIN_SCREW	2PIN_SCREW	2 Pin Screw Terminal	
ST2	2PIN_SCREW	2PIN_SCREW	2 Pin Screw Terminal	
S_PWR	SPDT_ TOGGLE_SWITCH	E-SWITCH-SPDT	Toggle Switch SPDT Panel Mount	
U1	POLOLU_ D24V22F5	POLOLU_ D24V22F5		
U2	TPS3710	SOT6	TI Low Voltage monitoring chip.	
U3	MCP4725	SOT23-6	Microchip 12-bit I2C DAC, SOT23-6	
U4	MCP4725	SOT23-6	Microchip 12-bit I2C DAC, SOT23-6	
U5	MCP6002	DIL08	Single Op Amp 2.7V to 6.0V Single Supply CMOS	
UC1	ARDUINO_ PRO_MICRO	ARDUINO_ PRO_MICRO	Arduino Pro Micro	

USB1

USB- OTGMICRO-AB

USB-MICRO-AB

USB Connector

USB