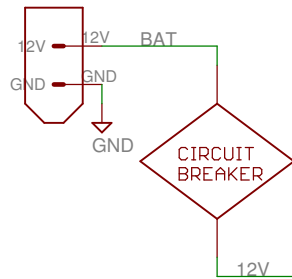
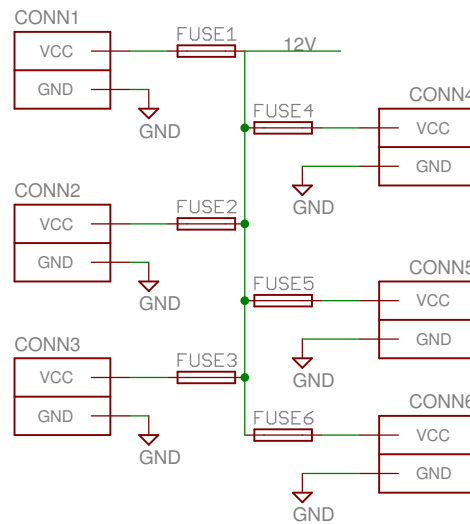


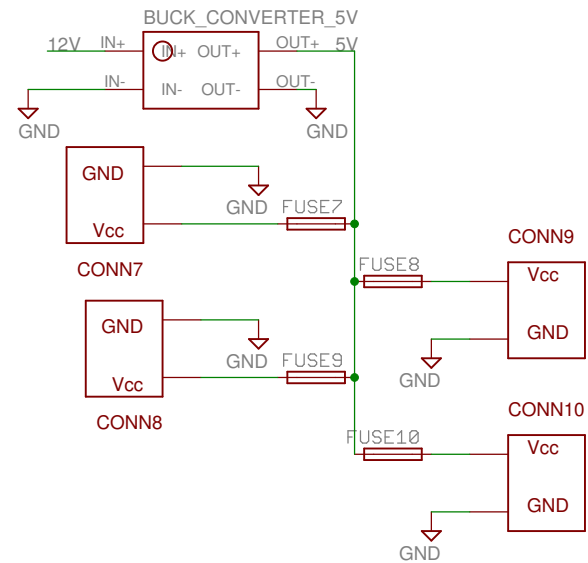
Battery & Circuit Breaker



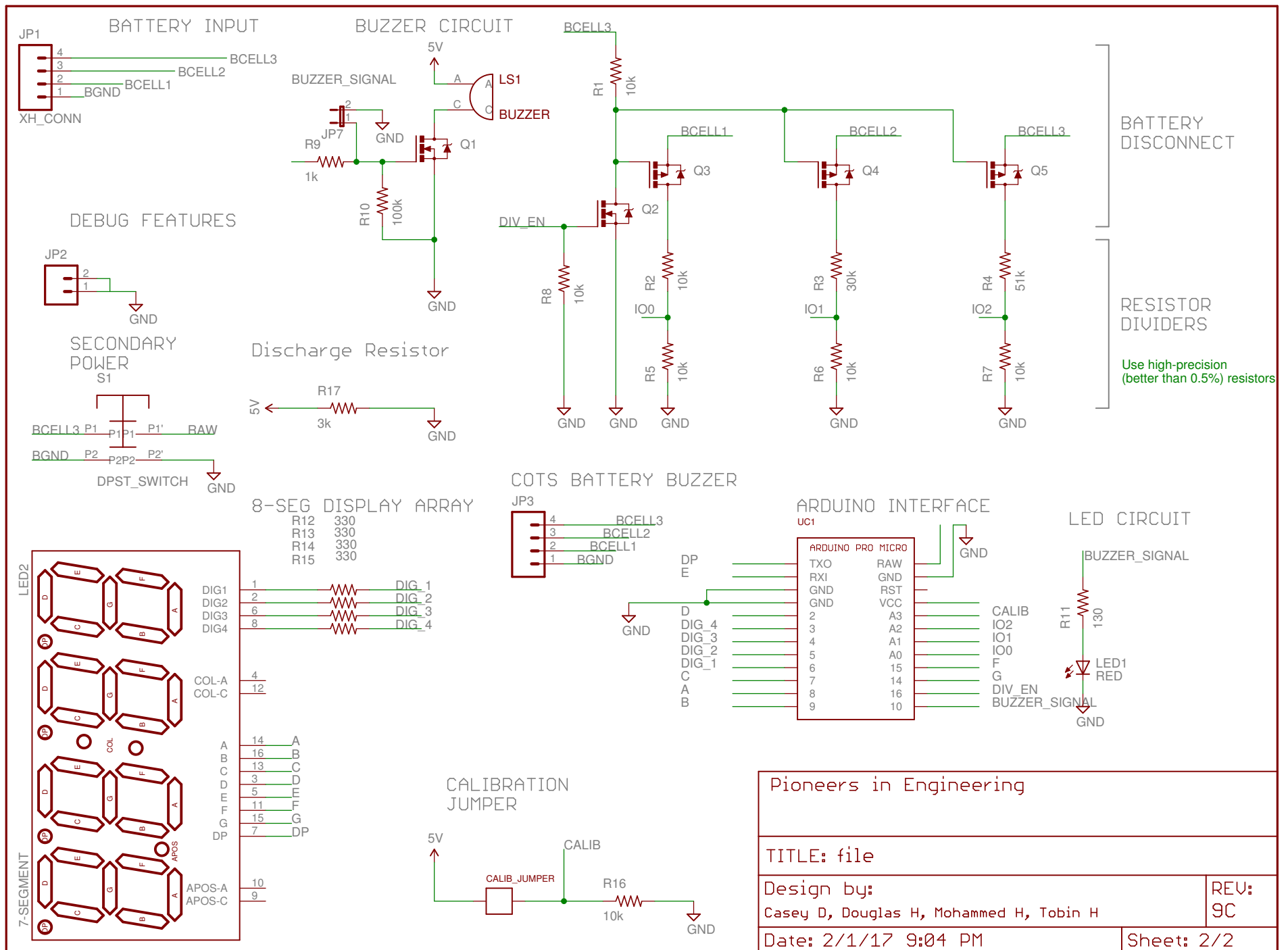
12V Rail



5V Rail



Pioneers in Engineering	
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Design by: Mohammed H., Sharabesh R., Tobin H.	REV: B
Date: 2/1/17 9:04 PM	Sheet: 1/2



Pioneers in Engineering

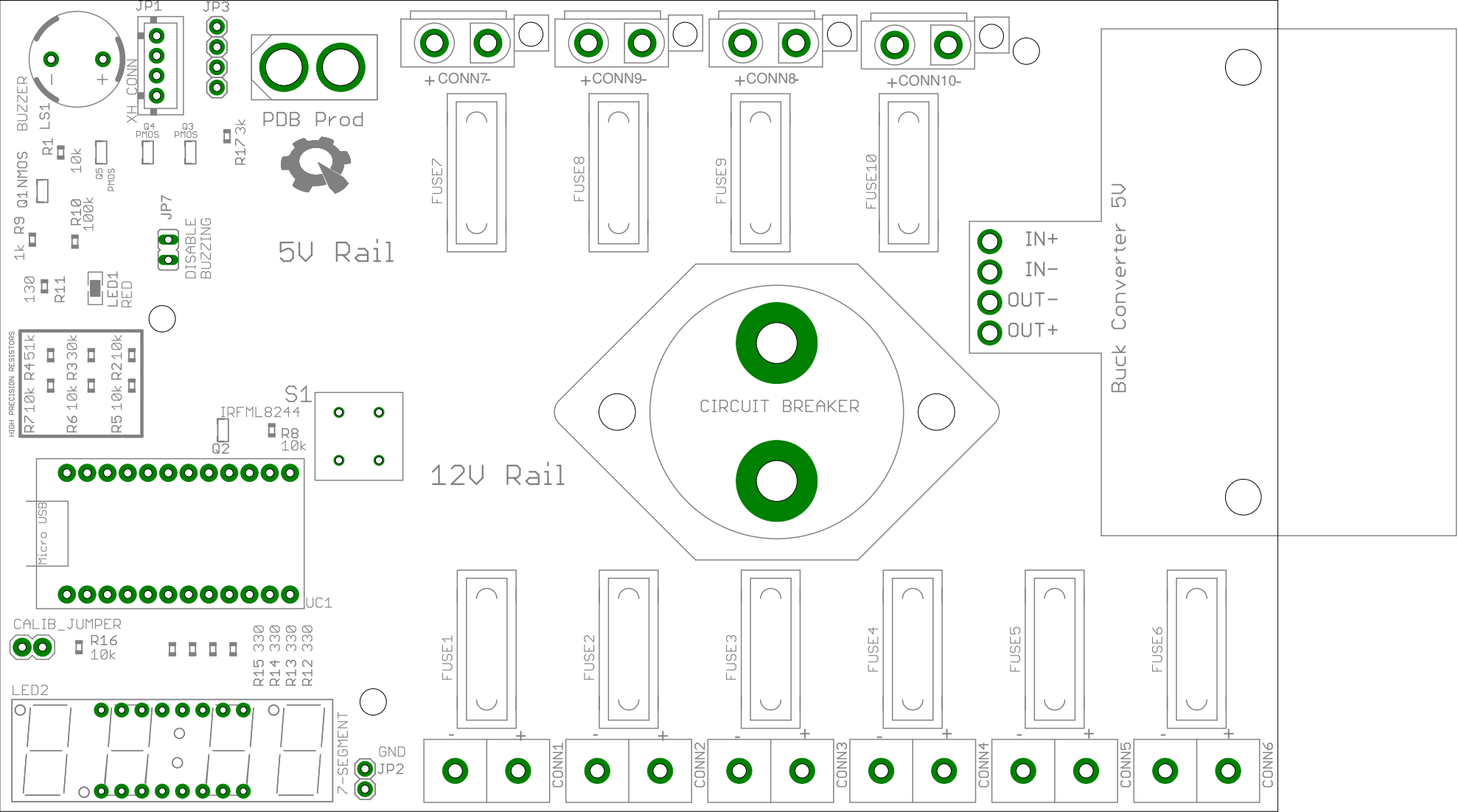
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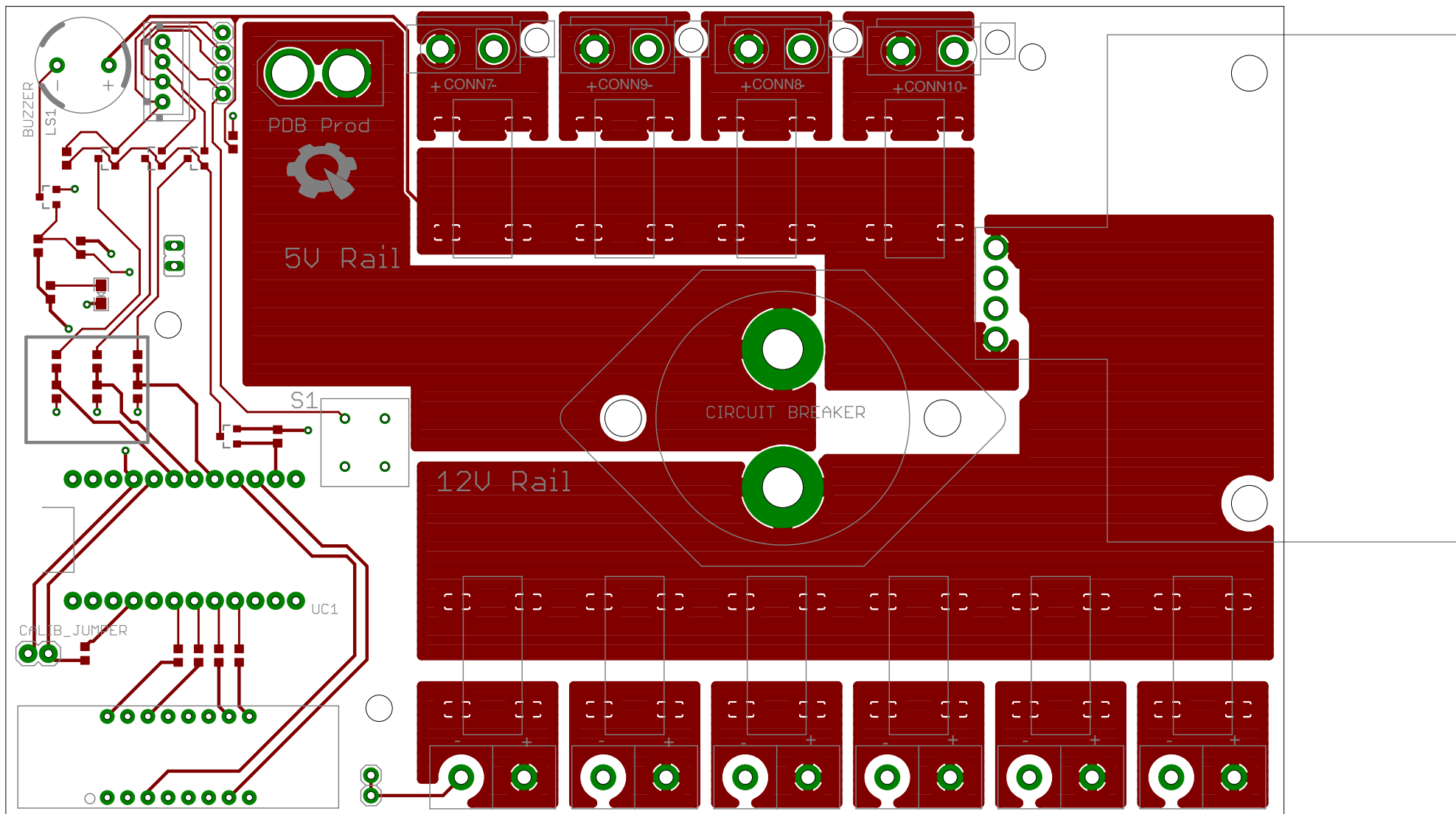
Design by:
Casey D, Douglas H, Mohammed H, Tobin H

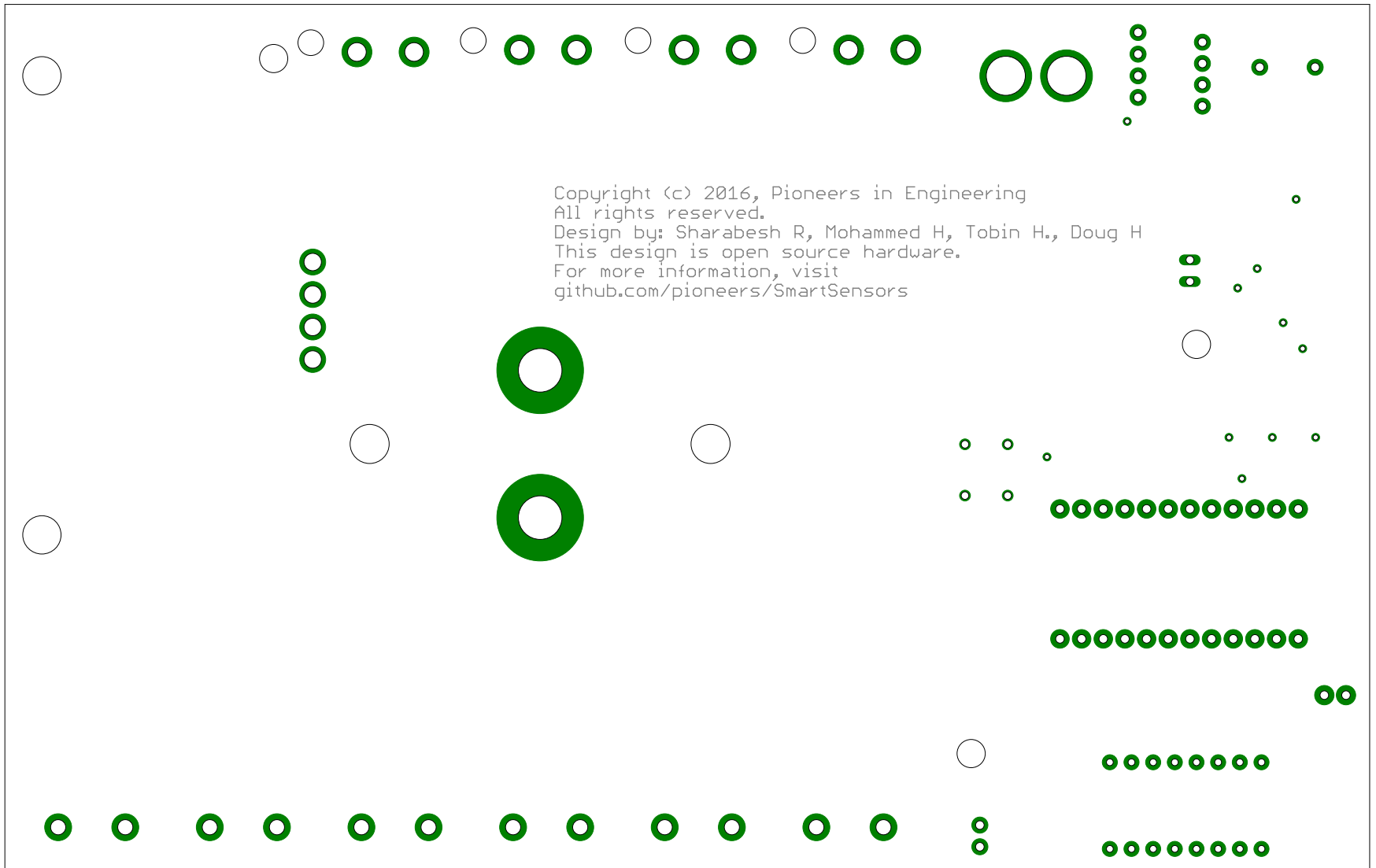
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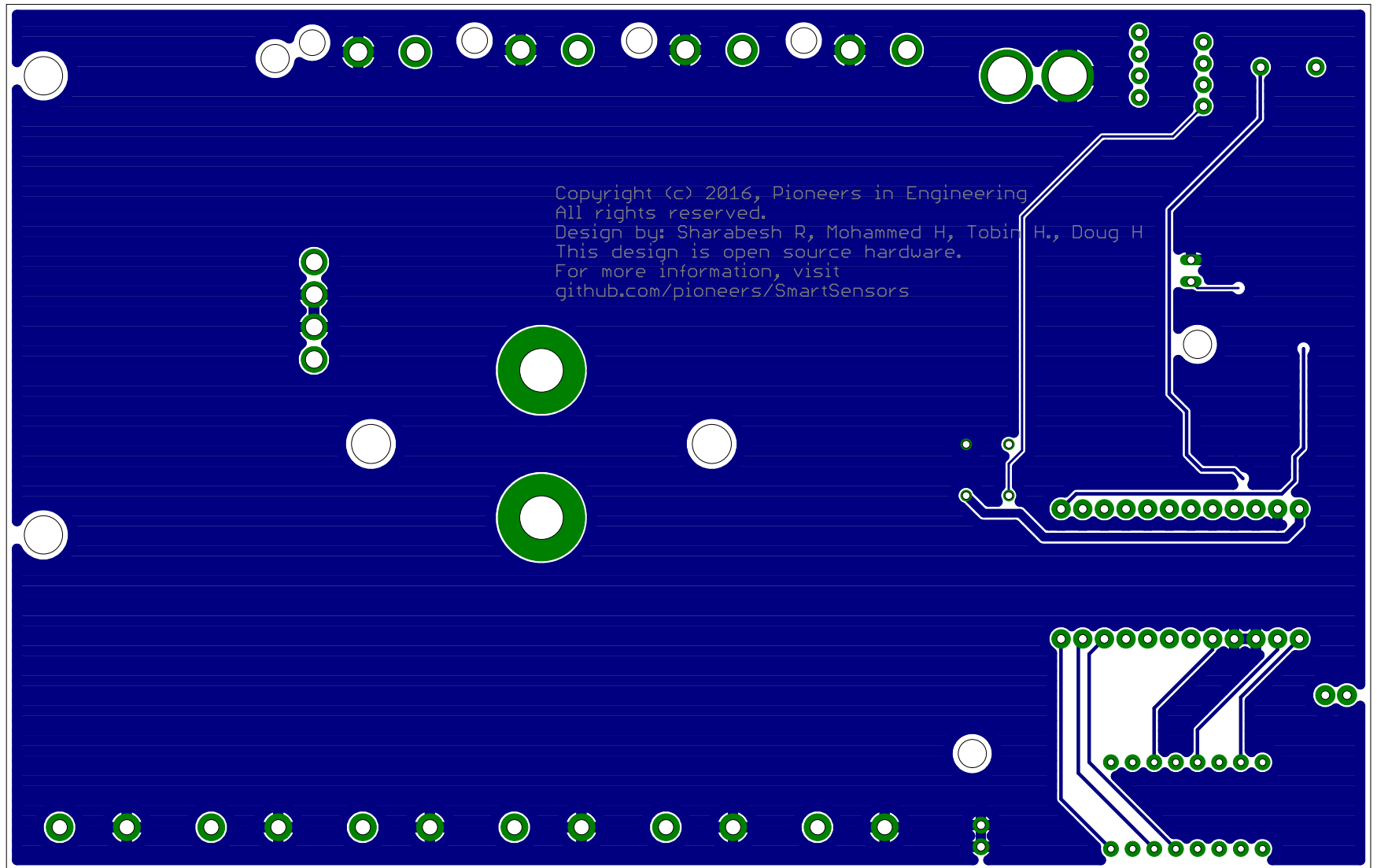
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<u>Name</u>	<u>Value</u>	<u>Package</u>	<u>Notes</u>	<u>Ref Number</u>
CALIB_JUMPER	JUMPER	JUMPER	2 Pin Jumper	
CIRCUIT_BREAKER	CIRC_BREAKER	CIRC_BREAKER	PiE Circuit Breaker: product page	
CONN1	ANDERSONVERTICAL	ANDERSON_VERTICAL	2-pin 25A Anderson Connector	Anderson
CONN2	ANDERSONVERTICAL	ANDERSON_VERTICAL	2-pin 25A Anderson Connector	Anderson
CONN3	ANDERSONVERTICAL	ANDERSON_VERTICAL	2-pin 25A Anderson Connector	Anderson
CONN4	ANDERSONVERTICAL	ANDERSON_VERTICAL	2-pin 25A Anderson Connector	Anderson
CONN5	ANDERSONVERTICAL	ANDERSON_VERTICAL	2-pin 25A Anderson Connector	Anderson
CONN6	ANDERSONVERTICAL	ANDERSON_VERTICAL	2-pin 25A Anderson Connector	Anderson
CONN7	ATX	ATX	ATX 2 Pin Connector	
CONN8	ATX	ATX	ATX 2 Pin Connector	
CONN9	ATX	ATX	ATX 2 Pin Connector	
CONN10	ATX	ATX	ATX 2 Pin Connector	
FUSE1	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE2	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE3	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE4	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE5	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE6	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE7	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE8	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE9	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
FUSE10	FUSE_HOLDERSMD	FUSE_HOLDERSMD	ATC/ATO Fuse Holder. Original variant datasheet	
JP1	XH_CONN	XH_CONNECTOR_4POS_2.5MM	4-pin XH connector (through-hole type shrouded header)	XH-4POS
JP2		1X02	2-pin 0.1-inch header and MTA connector	BULK-STOCK
JP3		1X04	4-pin 0.1-inch header and MTA connector	BULK-STOCK
JP7		JP1	JUMPER	
LED1	RED	LED-0805	LEDs	LED
LED2	7-SEGMENT	7- SEGMENT- 4DIGIT- YOUNGSUN	This is a part for the 4-Digit 7-segment LEDs from Young Sun. Different from the Digikey LEDs, all 16 pins are used.	
LS1	BUZZER	BUZZER_MAGNETIC_5V_12MM_RADIAL	Buzzer	BUZZER

Q1	NMOS	SOT23-3	N-channel TrenchMOS (TM) logic level FET	
Q2	IRFML8244	SOT23-3	N-channel TrenchMOS (TM) logic level FET	
Q3	PMOS	SOT23-3	P-Channel PowerTrench® MOSFET	PMOS
Q4	PMOS	SOT23-3	P-Channel PowerTrench® MOSFET	PMOS
Q5	PMOS	SOT23-3	P-Channel PowerTrench® MOSFET	PMOS
R1	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R2	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R3	30k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R4	51k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R5	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R6	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R7	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R8	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R9	1k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R10	100k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R11	130	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R12	330	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R13	330	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R14	330	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R15	330	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R16	10k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
R17	3k	R0603	RESISTOR, American symbol	RESISTOR- GENERIC
S1	DPST_SWITCH	C&K_SWITCH	Double Throw, single pole normally open pushbutton switch.	
U\$7	BUCK_CONVERTER_5V	BUCK_CONVERTER_5V	5V Buck Converter. For PDB. Product Detail	
UC1	ARDUINO_PRO_MICRO	ARDUINO_PRO_MICRO	Arduino Pro Micro	
XT60	XT60CONNECTOR	XT60CONNECTOR	12V XT60 power connector	