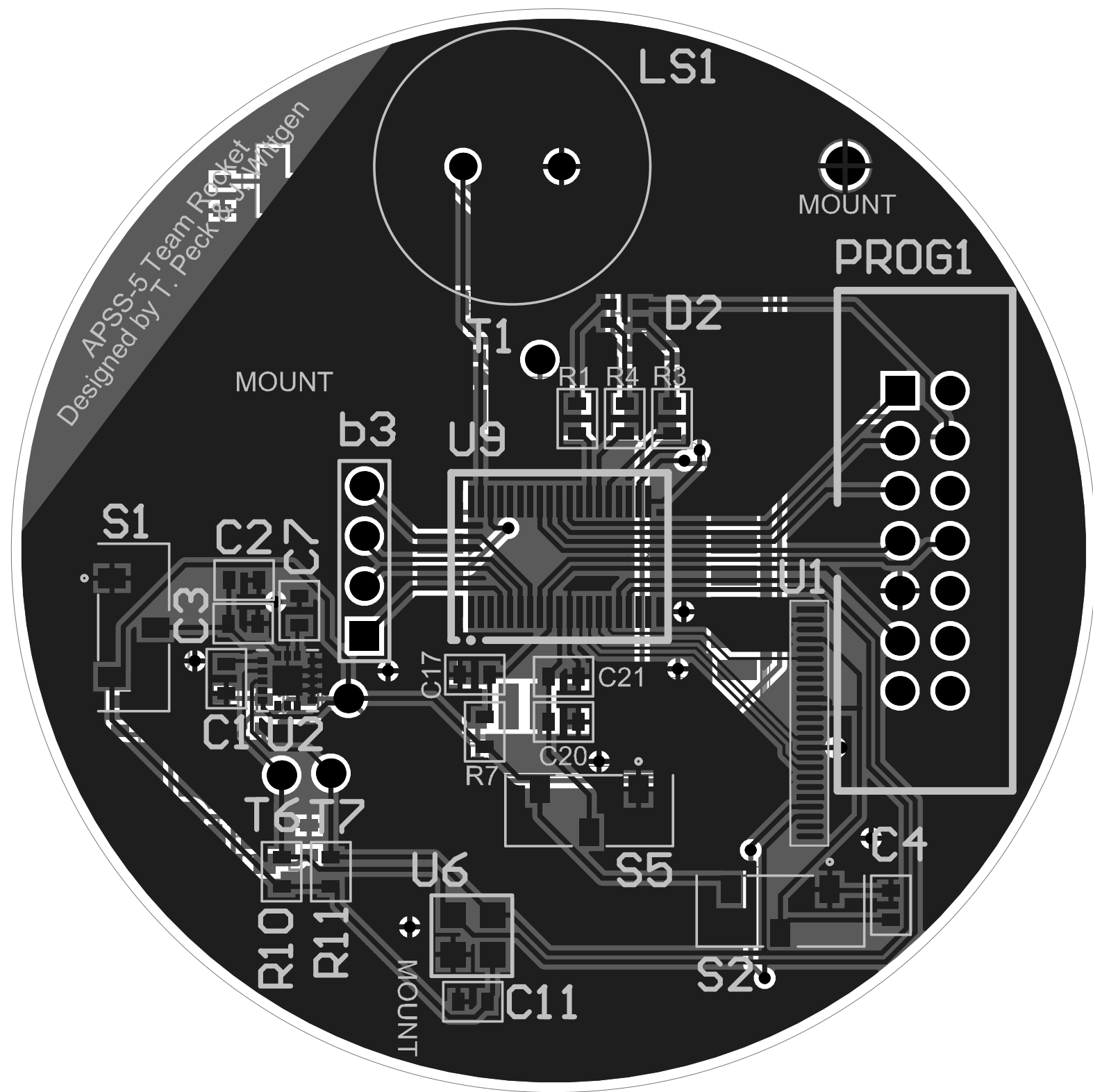


Title		
Size	Number	Revision
A4		
Date:	9/13/2022	Sheet of
File:	C:\Users\...\Microcontroller.SchDoc	Drawn By:



APSS-5 Team Pocket
Designed by T. Peck and J. Wintgen

LS1

MOUNT

PROG1

MOUNT

b3

S1

C2

C7

C3

C1

U2

T6

T7

R10

R11

C17

R7

U6

C11

MOUNT

S5

S2

C21

C20

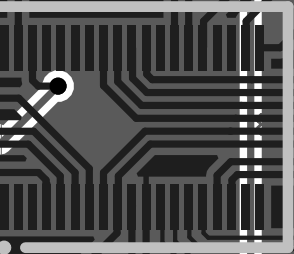
D2

R1

R4

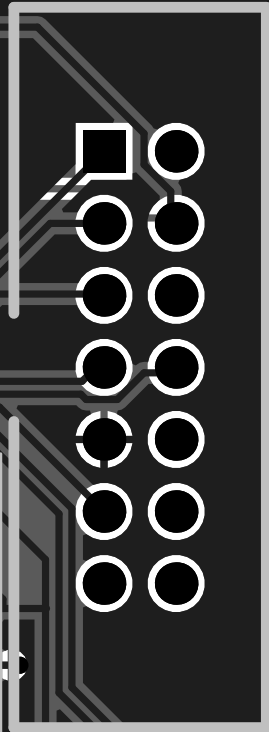
R3

U9



U1

C4



Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	C-n-010.000-5-0603	Capacitor 10nF 0603 +/-5%	C1, C11	2							
	C-n-001.000-5-0603	Capacitor 1uF 0603 +/-5%	C2, C10, C16	3							
	C-n-001.000-5-0603	Capacitor 2.2uF 0603 +/-5%	C3	1							
	C-n-100.000-10-0603	Capacitor 100nF 0603 +/-10%	C4, C21	2							
	C-p-012.000-2-0603	Capacitor 12pF 0603 +/-2%	C5, C6	2							
	C-n-010.000-5-0603	Capacitor 0.47uF 0603 +/-5%	C7	1							
	C-n-010.000-5-0603	Capacitor 2.2uF 0603 +/-5%	C8	1							
	C-n-001.000-5-0603	Capacitor 22nF 0603 +/-5%	C9	1							
	C-n-001.000-5-0603	Capacitor 0.1uF 0603 +/-5%	C12	1							
	C-n-002.200-5-0603	Capacitor 2.2nF 0603 +/-5%	C17	1							
	C-n-001.000-5-0603	Capacitor 10uF 0603 +/-5%	C20	1							
	LTST-C194TBKT	Blue 468nm LED Indication - Discrete 3.3V 0603_1608 Metric_	D1	1							
	EAST1616RGBB4		D2	1							
	CONUFL001-SMD-T		J1	1							
	L-n-027.000-5-0402	Inductor 27nH 0402 +/-5%	L1	1							
	PS1440P02BT	Buzzers Transducer, Externally Driven Piezo 3V 4kHz 75dB @ 3V, 10cm Through Hole PC Pins	LS1	1							
	Header 2	Header, 2-Pin	P1	1							
	SD Breakout	Header, 4-Pin	P3	1							
	MSP430 Programming Header	14 Pin JTAG Header for MSP430 Debug Probe	PROG1	1							
	R-k-010.000-1-0603	Resistor 60 0603 +/-1%	R1	1							
	R-k-100.000-1-0603	Resistor 100k 0603 +/-1%	R2, R5	2							
	R-k-010.000-1-0603	Resistor 10 0603 +/-1%	R3, R4	2							
	R-k-001.500-1-0603	Resistor 20 0603 +/-1%	R6	1							
	R-k-047.000-1-0603	Resistor 47k 0603 +/-1%	R7	1							
	R-k-010.000-1-0603	Resistor 10k 0603 +/-1%	R8, R10, R11	3							
	JS102011JCQN	Switch Slide Spdt 300ma 6v	S1, S2, S3, S4, S5	5							
	Open Pad		T1, T2, T6, T7	4							
	Camera		U1	1							
	ICM-20608-G	Accelerometer, Gyroscope, 6 Axis Sensor I ² C, SPI Output	U2	1							
	SE878K3-A	GNSS L1 Antenna module (GPS, Galileo, Glonass, BeiDou)	U3	1							
	RT9193-30GB	Linear Voltage Regulator IC 1 Output 300mA SOT-23-5	U4	1							
	MS563702BA03-50	Pressure Sensor, Absolute, 2Bar, I2C	U6	1				Digi-Key			
	MSP430FR2355 38-TFSOP	MSP430 Microcontroller	U9	1							