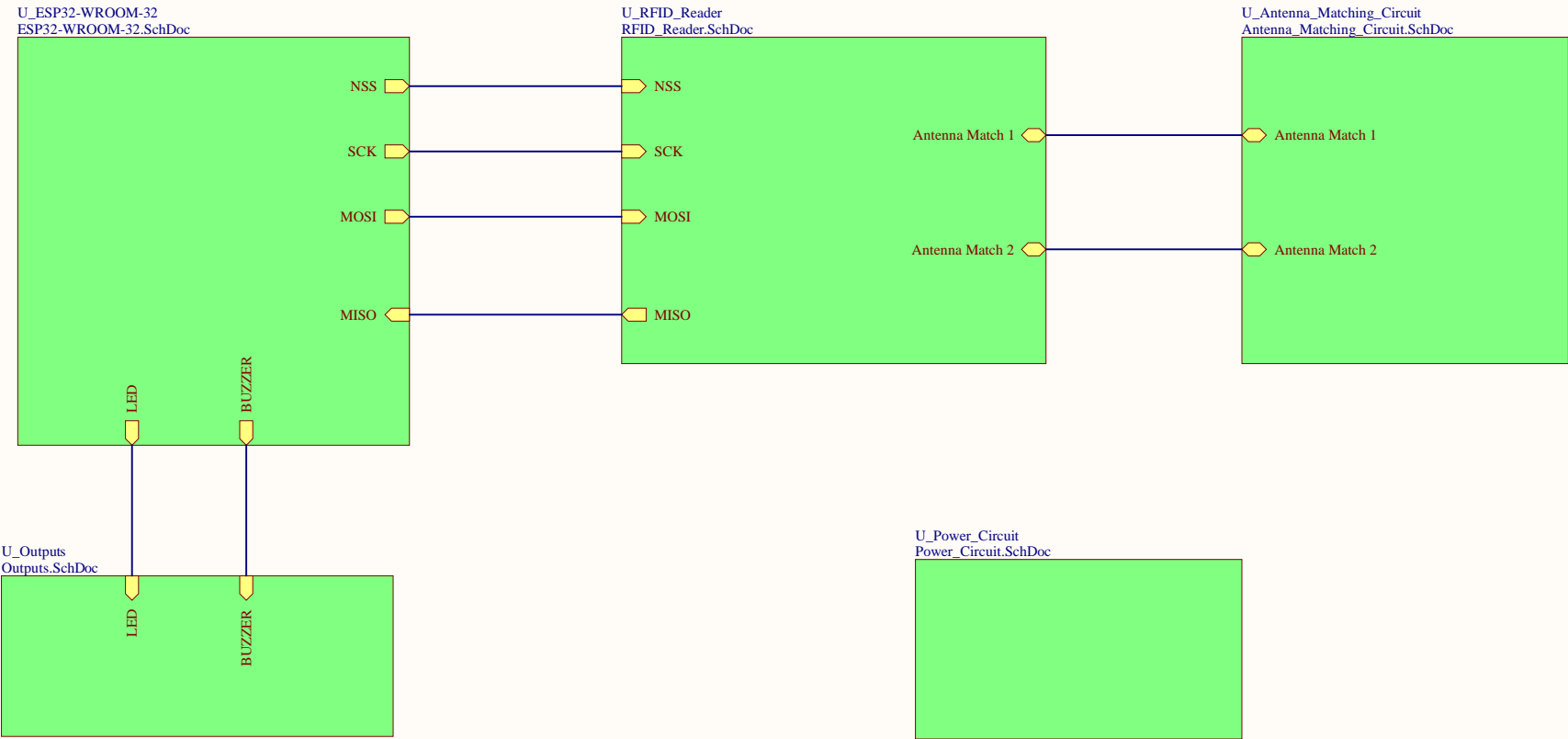
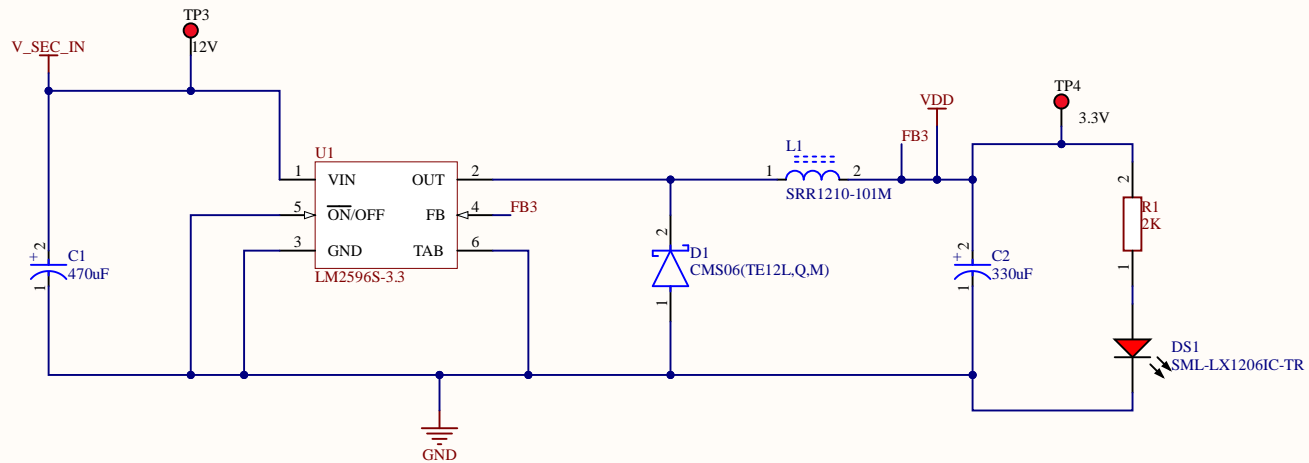
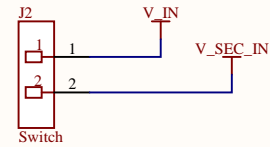
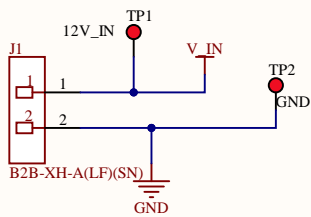


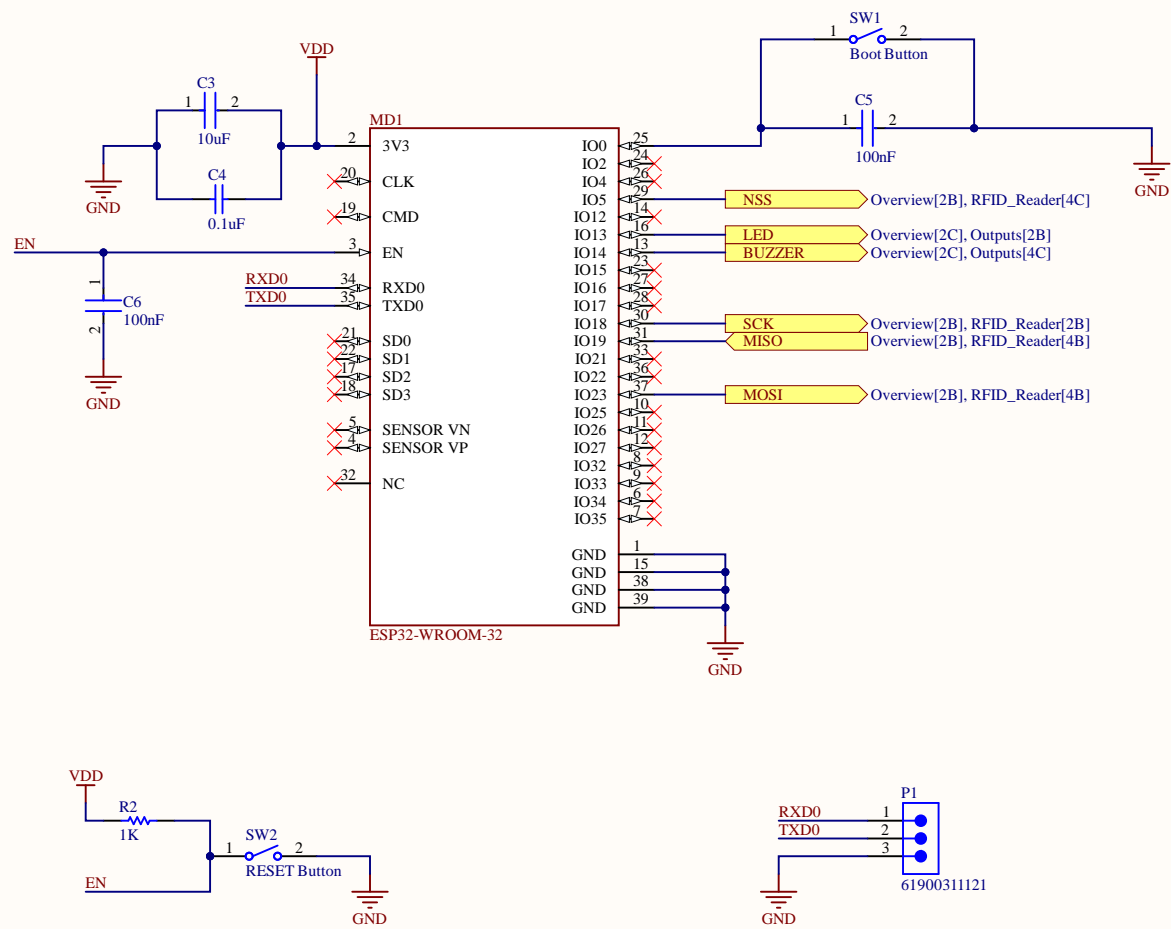
TRACKING SYSTEM PCB



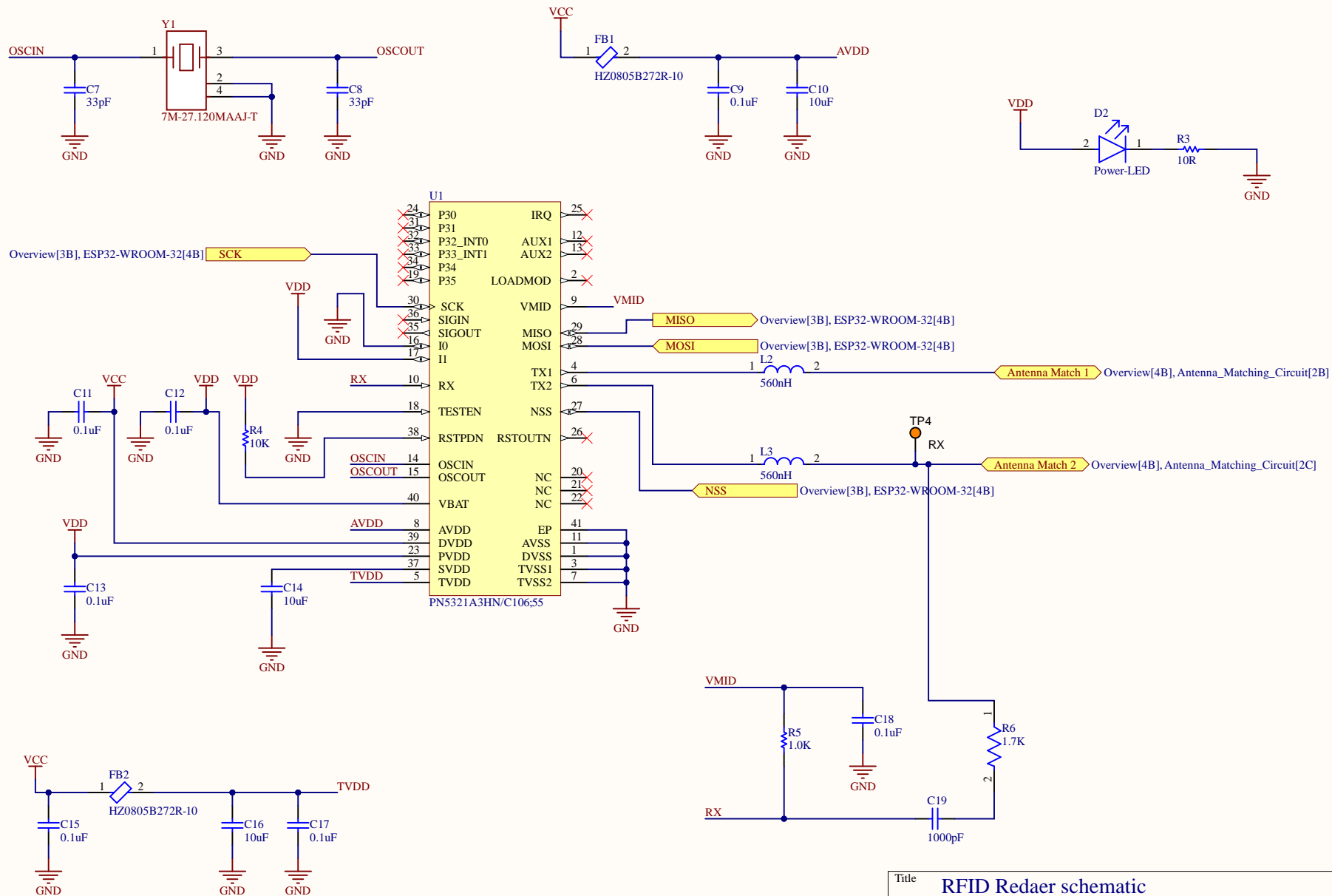
Title Overview Schematic			
Size A	Number 1		Revision B
Date:	4/04/2024	Sheet of	1 of 6
File:	C:\Users\...\Overview.SchDoc	Drawn By:	Sirimanna N.T.W.



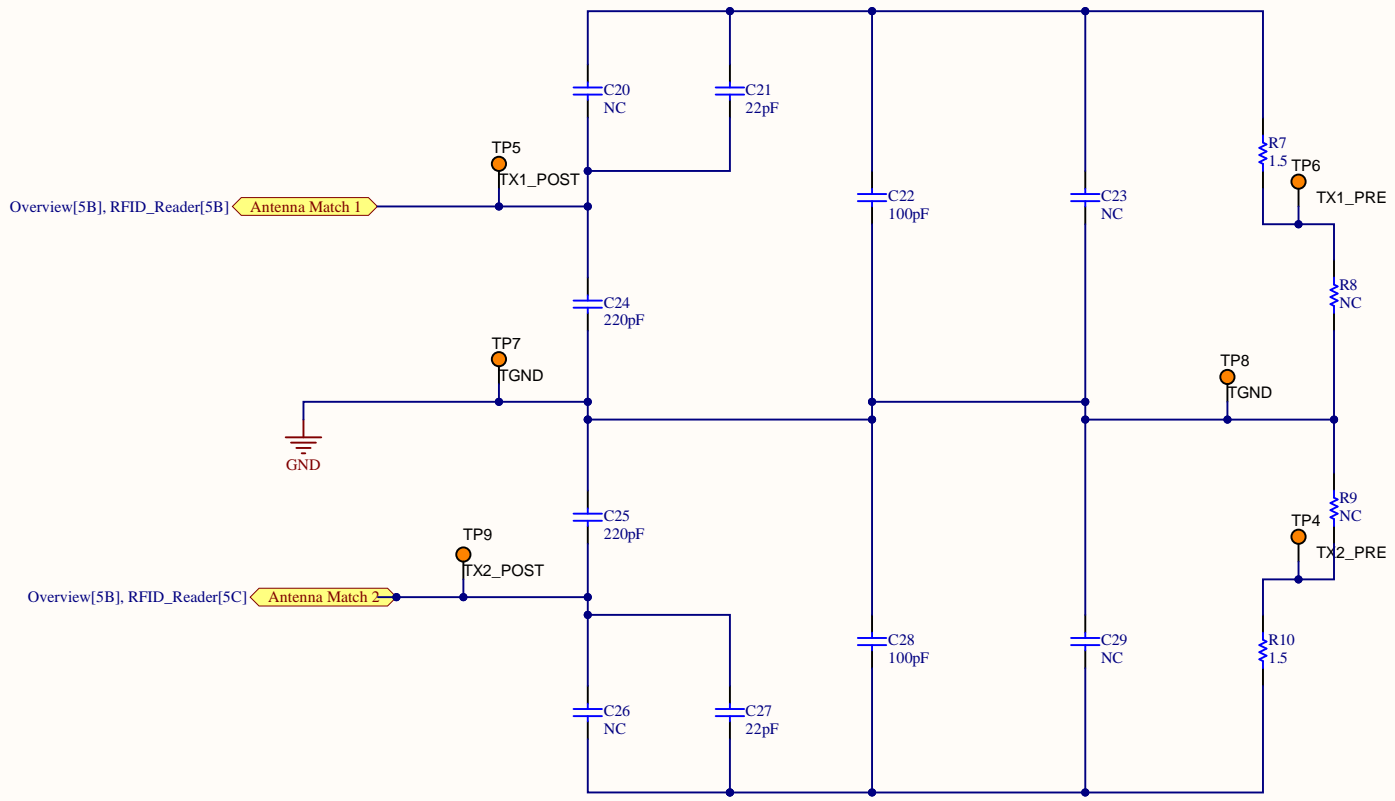
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Size A	Number 2	Revision B
Date:	4/04/2024	Sheet of 2 of 6
File:	C:\Users\...\Power_Circuit.SchDoc	Drawn By: Sirimanna N.T.W.



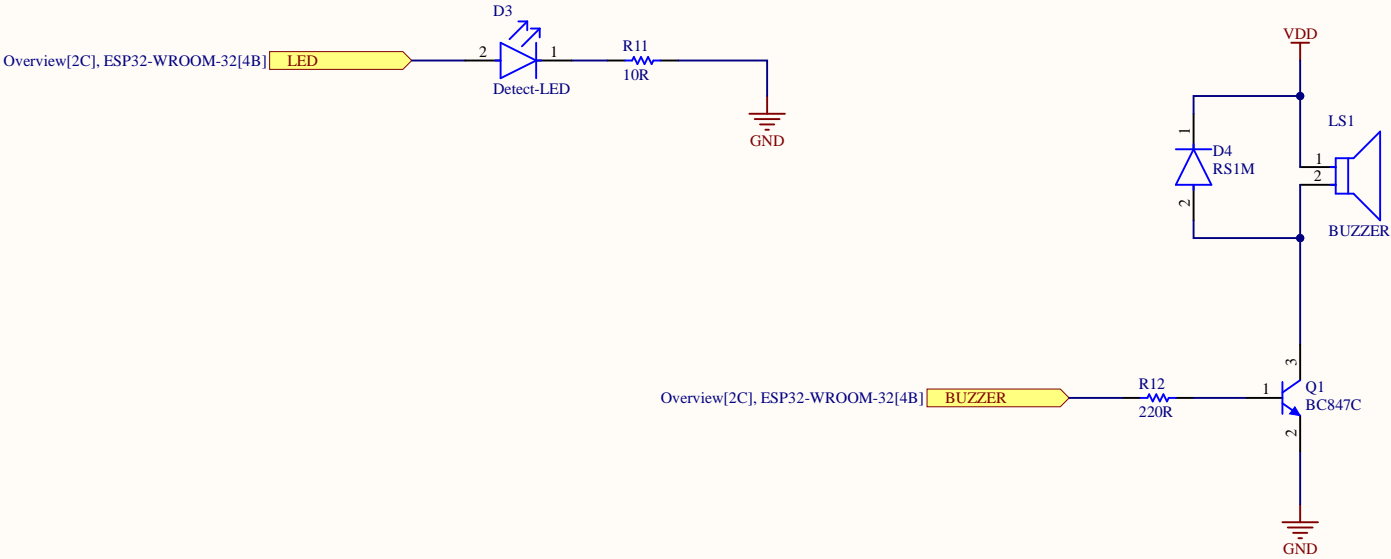
Title			ESP32 Schematic		
Size	Number	Revision			
A	3	B			
Date:	4/04/2024	Sheet of	2 of 6		
File:	C:\Users\...\ESP32-WROOM-32.SchDoc	Drawn By:	Sirimanna N.T.W.		



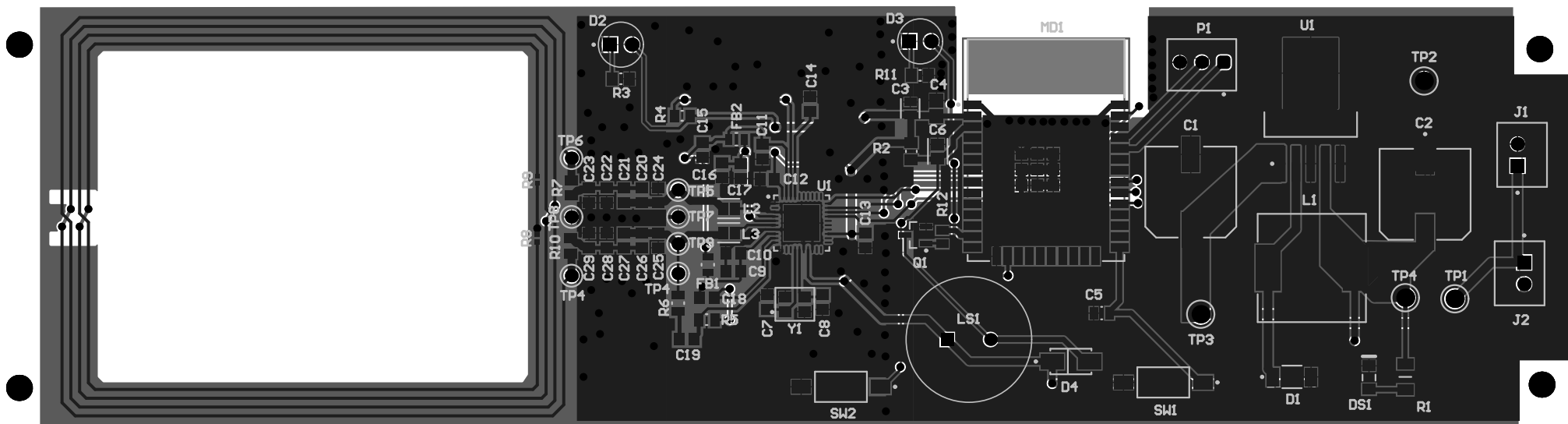
Title		
RFID Redaer schematic		
Size	Number	Revision
A0	4	B
Date:	4/04/2024	Sheet of 4 of 6
File:	C:\Users\...\RFID_Reader.SchDoc	Drawn By: Sirimanna N.T.W.



Title			Antenna Matching Circuit Schematic		
Size	Number			Revision	
A	5			B	
Date:	4/04/2024	Sheet of	5 of 6		
File:	C:\Users\...\Antenna_Matching_Circuit.Sch	Drawn By:	Sirimanna N.T.W.		



Title				Buzzer and LED Schematic			
Size A		Number 6			Revision B		
Date:		4/04/2024		Sheet of		6 of 6	
File:		C:\Users\...\Outputs.SchDoc		Drawn By:		Sirimanna N.T.W.	



Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	470uF	CAP ALUM POLY HYB 100UF 50V SMD	C1		Unknown server		1							
	330uF	CAP ALUM 330UF 20% 35V SMD	C2		Unknown server		1	Panasonic	EEH-ZA1H101P	Volume Production	Newark	62W7360	2.45	2.45
	10uF	CAP CER 10UF 10V X5R 0805	C3		Unknown server		1		EEE-FK1V331AP	Volume Production	Newark	85AK4248	0.951	0.951
	0.1uF		C4		Unknown server		1							
	100nF	CAP CER 0.1UF 50V X7R 0805	C5		Unknown server		1							
	100nF	General Purpose Ceramic Capacitor, 0805, 100nF, 10%, X7R, 15%, 100V	C6		Unknown server		1							
	33pF, 0.1uF, 10uF, 1000pF, NC, 22pF, 100pF, 220pF	Chip Capacitor, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 0805 (2012 Metric), RoHS, Tape and Reel	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29		Unknown server		23							
	CMS06(Te12L,Q,M)	DIODE SCHOTTKY 30V 2A MFLAT	D1		Unknown server		1	Toshiba	CMS06(Te12L,Q,M)	Volume Production	Arrow Electronics	CMS06(Te12L,Q,M)	0.4278	0.4278
	Power-LED, Detect-LED	TLLG4400 Led, Pcb, Green, 0.63MCD, 3MM, T-1, 7MA, 1.9V, 565NM, 25DEG, 20V, 20MW, -40	D2, D3		Unknown server		2							
	RS1M	DIODE GEN PURP 1KV 1A SMA	D4		Unknown server		1							
	SML-LX1206IC-TR	LED Red, 65 mW, -40 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel	DS1		Unknown server		1	Lumex	SMLLX1206ICTR	Volume Production	Arrow Electronics	SML-LX1206IC-TR	0.2518	0.2518
	H20805B272R-10	FERRITE BEAD 100 OHM 0805 11N	FB1, FB2		Unknown server		2							
	B2B-XH-A(LF)(SN), Switch	CONN HEADER VERT 2POS 2.5MM, To power Switch	J1, J2		Unknown server		2	JST	B2B-XH-A(LF)(SN)	Volume Production	Newark	73M9415	0.077	0.154
	SRR1210-101M	FIXED IND 100UH 2.5A 135MOHM SMD	L1		Unknown server		1	Bourns	SRR1210-101M	Volume Production	Mouser	652-SRR1210-101M	1.23	1.23
	560nH	Multilayer Type Inductor for General Circuits, 0805 (2012), 0.56uH, 10%, 0.63Q, 150mA	L2, L3		Unknown server		2							
	BUZZER	AUDIO PIEZO TRANSDUCER 30V TH	LS1		Unknown server		1							
	ESP32-WROOM-32	RX TXRX MOD WIFI SURFACE MOUNT	MD1		Unknown server		1	Espressif Systems	ESP32-WROOM-32					
	61900311121		P1		Unknown server		1							
	BC847C	NPN Silicon AF Transistor, 45 V VCEO, 100 mA IC, SOT23, Reel, Green	Q1		Unknown server		1							
	2K	Resistor	R1		Not managed		1							
	1K	Chip Resistor, 1 KOhm, +/- 1%, 125 mW, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel	R2		Unknown server		1							
	10R	Chip Resistor, 10 Ohm, +/- 1%, 0.125 W, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel	R3, R11		Unknown server		2							
	10K	Chip Resistor, 10 KOhm, +/- 1%, 0.125 W, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel	R4		Unknown server		1							
	1.0K		R5		Unknown server		1							
	1.7K	RES Thick Film, 1.5kQ, 1%, 0.125W, 100ppm/°C, 0805	R6		Unknown server		1							
	1.5		R7, R10		Unknown server		2							
	NC		R8, R9		Unknown server		2							
	220R		R12		Unknown server		1							
	Boot Button, RESET Button	FSMSM Push Button Switch, 50 mA, -35 to 85 degC, 2-Pin SMD, RoHS, Bulk	SW1, SW2		Unknown server		2							
	12V_IN, GND, 12V, 3.3V	Test Point, Red, Through Hole, RoHS, Bulk	TP1, TP2, TP3, TP4		Unknown server		4							
	TX2_PRE, RX, TX1_POST, TX1_PRE, TGND, TX2_POST	Test Point, Orange, 1-Pin THD, RoHS	TP4, TP5, TP6, TP7, TP8, TP9		Unknown server		7							
	LM2596S-3.3	SIMPLE SWITCHER® Power Converter 150 KHz 3A Step-Down Voltage Regulator, 5-pin TO-263	U1		Unknown server		1	TI National Semiconductor	LM2596S-3.3	End of Life	Digikey	LM2596S-3.3-ND	9.16	9.16
	PN5321A3HN/C106:55	NFC Controller, 13.56 MHz, -30 to 85 degC, 40-Pin HVQFN (SOT618-1), RoHS, Tray	U1		Unknown server		1							
	7M-27.120MAAJ-T	Crystal 27.12MHz, 30ppm, 18pF, 50Q	Y1		Unknown server		1							