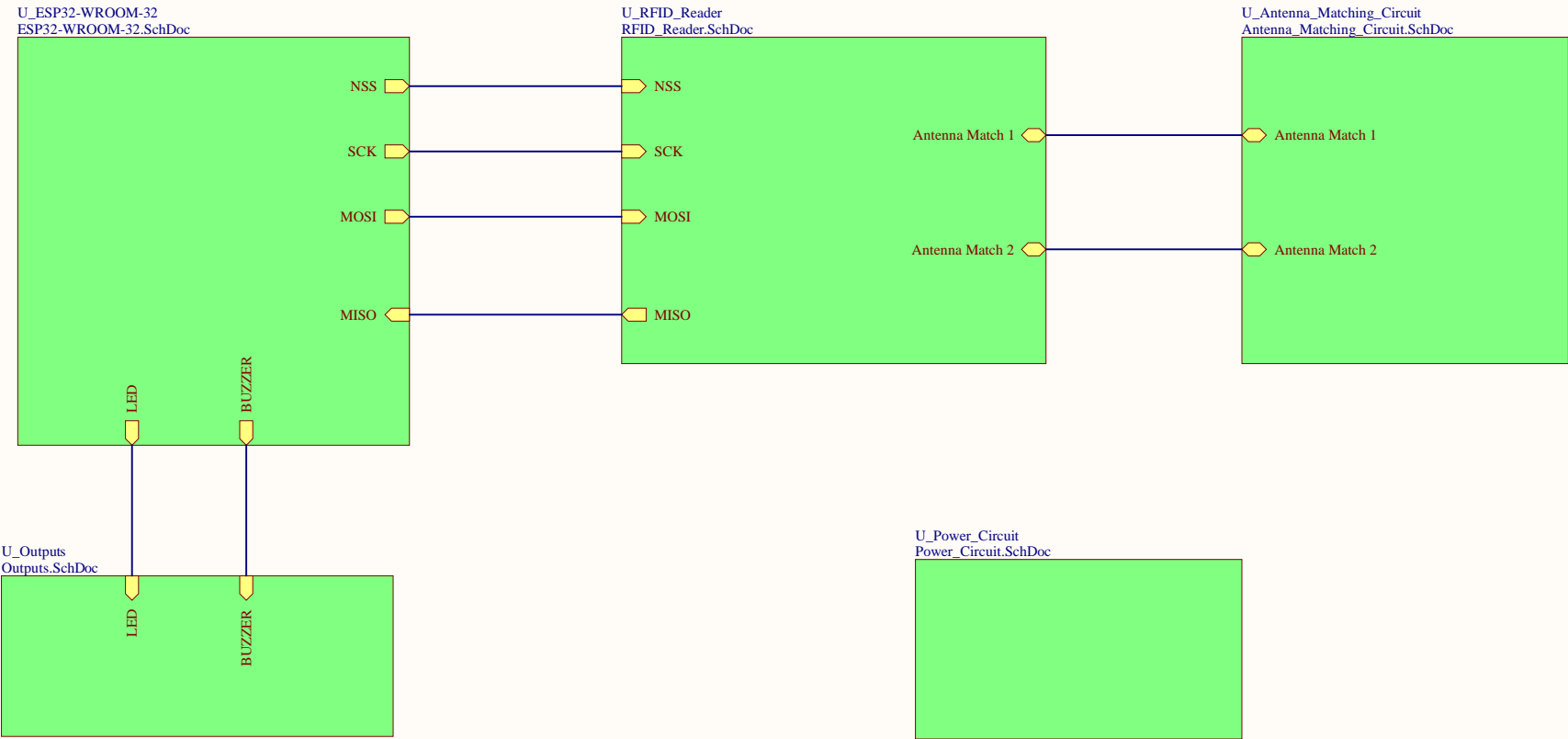
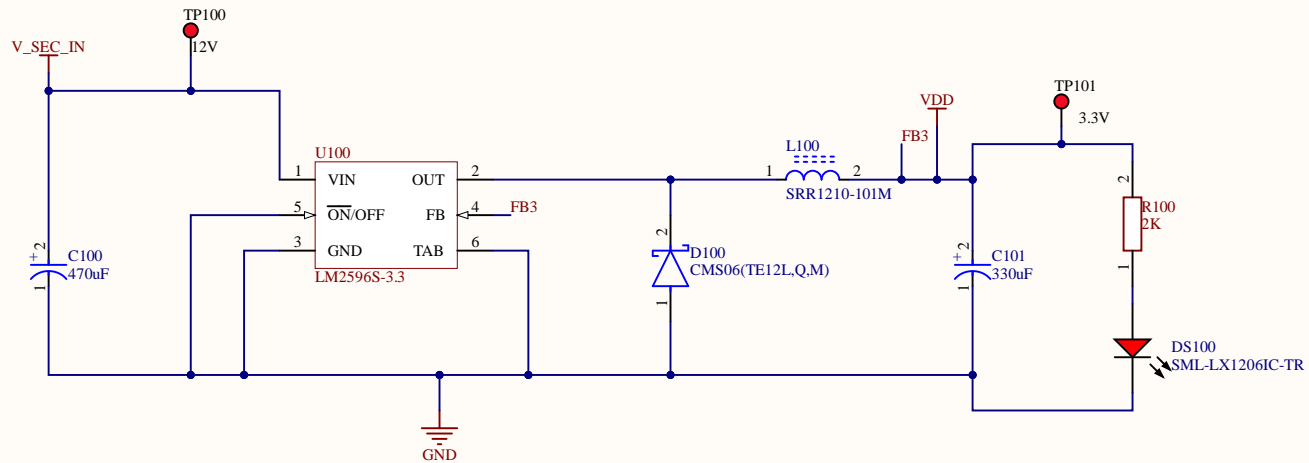
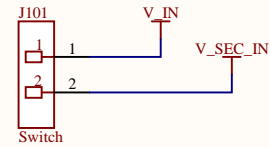
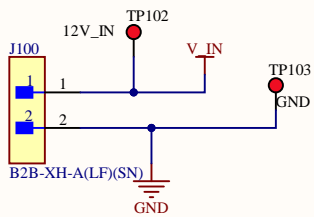


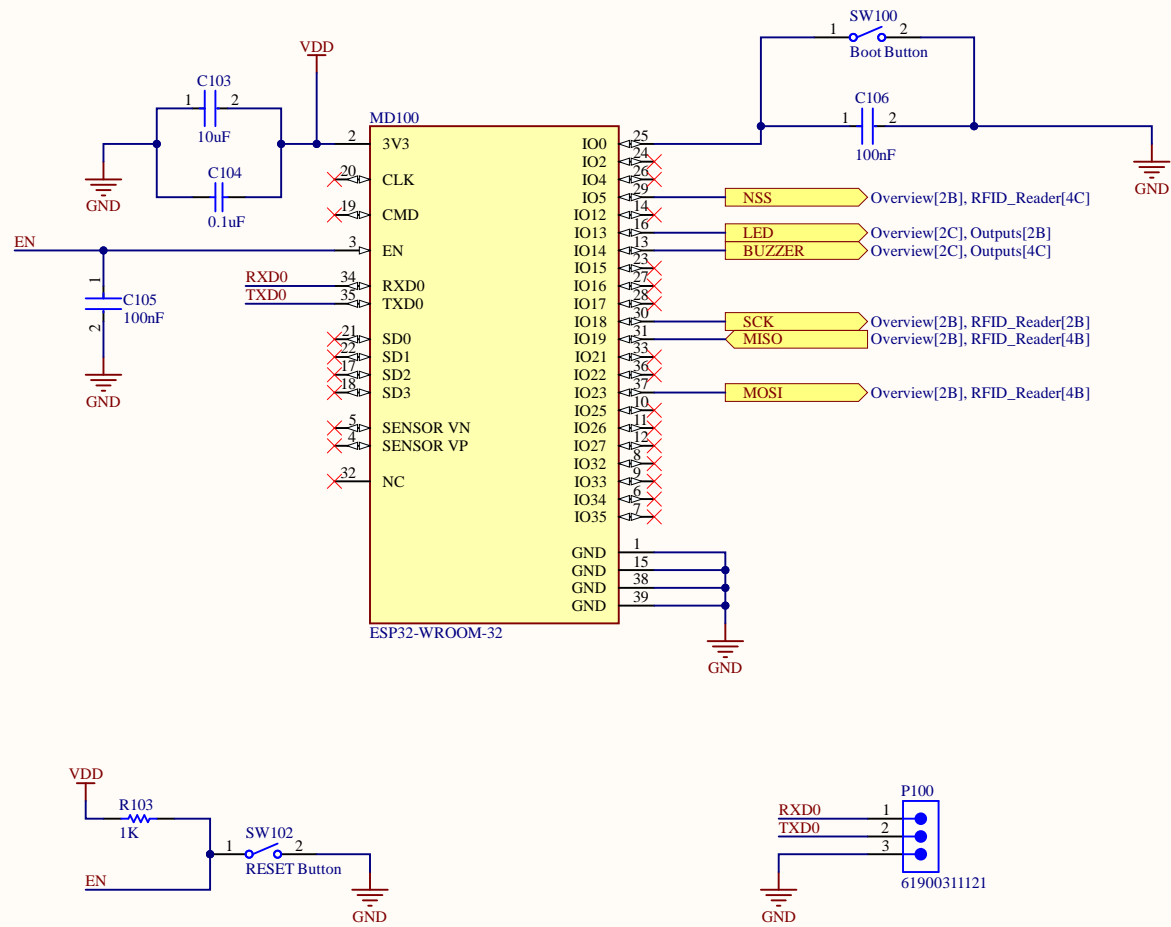
TRACKING SYSTEM PCB



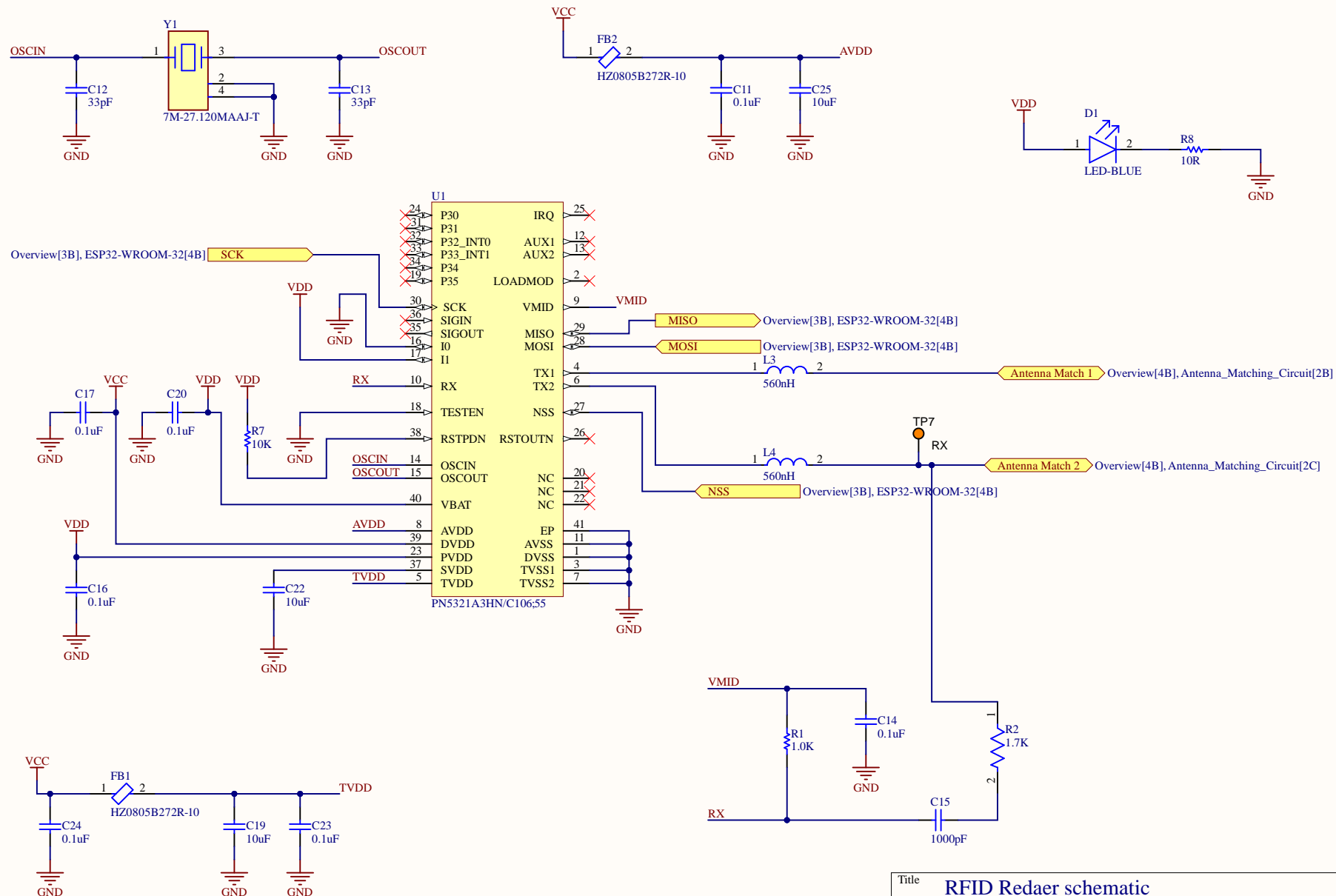
Title Overview Schematic			
Size A	Number 1	Revision B	
Date:	4/01/2024	Sheet of	1 of 6
File:	C:\Users\...\Overview.SchDoc	Drawn By:	Sirimanna N.T.W.



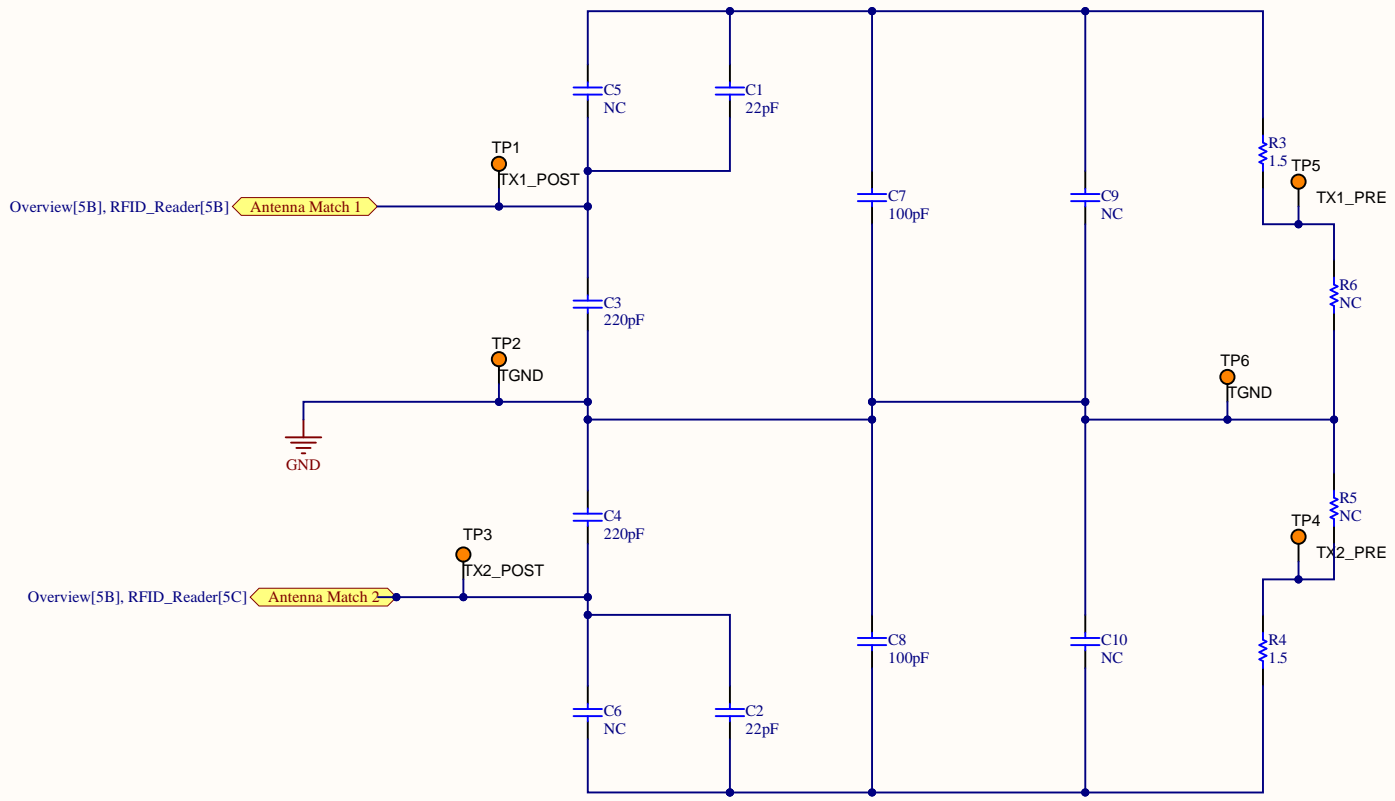
Title Power Circuit Schematic			
Size A	Number 2	Revision B	
Date:	4/01/2024	Sheet of	2 of 6
File:	C:\Users\...\Power_Circuit.SchDoc	Drawn By:	Sirimanna N.T.W.



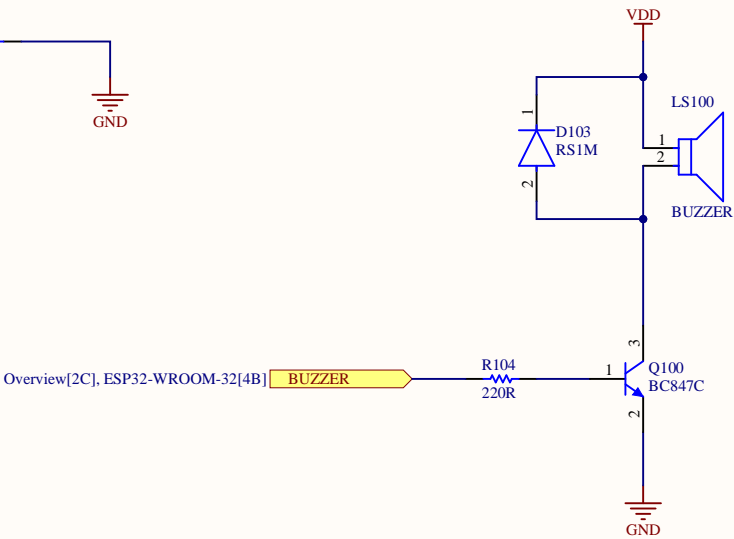
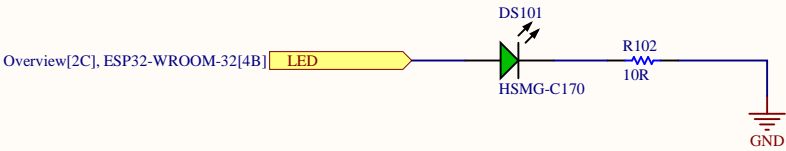
Title ESP32 Schematic			
Size A	Number 3	Revision B	
Date:	4/01/2024	Sheet of	2 of 6
File:	C:\Users\...\ESP32-WROOM-32.SchDoc	Drawn By:	Sirimanna N.T.W.



Title RFID Redaer schematic		
Size A0	Number 4	Revision B
Date: 4/01/2024	Sheet of 4 of 6	
File: C:\Users\...\RFID_Reader.SchDoc	Drawn By: Sirimanna N.T.W.	

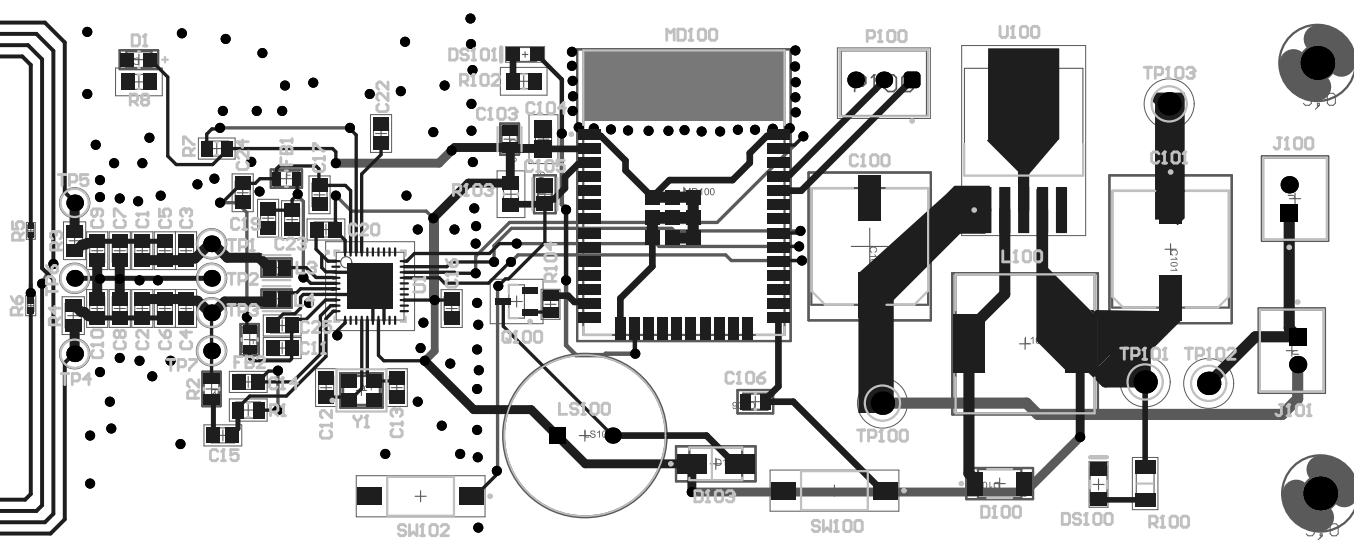


Title			Antenna Matching Circuit Schematic		
Size	Number	Revision			
A	5	B			
Date:	4/01/2024	Sheet of	5 of 6		
File:	C:\Users\...\Antenna_Matching_Circuit.SchDoc	Drawn By:	Sirimanna N.T.W.		



Title			Buzzer and LED Schematic		
Size	Number	Revision			
A	6	B			
Date:	4/01/2024	Sheet of	6 of 6		
File:	C:\Users\...\Outputs\SchDoc	Drawn By:	Sirimanna N.T.W.		

ENTC
Electronic and Telecommunication Engineering



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
	22pF, 220pF, NC, 100pF, 0.1uF, 33pF, 1000pF, 10uF	Chip Capacitor, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 0805 (2012 Metric), RoHS, Tape and Reel	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C19, C20, C22, C23, C24, C25		Unknown server		23							
	470uF	CAP ALUM POLY HYB 100UF 50V SMD	C100		Unknown server		1	Panasonic	EEH-ZA1H101P	Volume Production	Newark	62W7360	2.45	2.45
	330uF	CAP ALUM 330UF 20% 35V SMD	C101		Unknown server		1	Panasonic	EEE-FK1V331AP	Volume Production	Newark	85AK4248	0.951	0.951
	10uF	CAP CER 10UF 10V X5R 0805	C103		Unknown server		1							
	0.1uF		C104		Unknown server		1							
	100nF	General Purpose Ceramic Capacitor, 0805, 100nF, 10%, X7R, 15%, 100V	C105		Unknown server		1							
	100nF	CAP CER 0.1UF 50V X7R 0805	C106		Unknown server		1							
	LED-BLUE	LED BLUE CLEAR 0805 SMD	D1		Unknown server		1							
	CMS06(TE12L,Q,M)	DIODE SCHOTTKY 30V 2A MFLAT	D100		Unknown server		1	Toshiba	CMS06(TE12L,Q,M)	Volume Production	Arrow Electronics	CMS06(TE12L,Q,M)	0.4278	0.4278
	RS1M	DIODE GEN PURP 1KV 1A SMA	D103		Unknown server		1							
	SML-LX1206/C-TR	LED Red, 65 mW, -40 to 85 degC, 2-Pin SMD, RoHS, Tape and Reel	DS100		Unknown server		1	Lumex	SMLLX1206/CTR	Volume Production	Arrow Electronics	SML-LX1206/C-TR	0.2518	0.2518
	HSMG-C170	Chip LED, Green, 2.2 V, -40 to 85 degC, 2-Pin SMD, Pb-Free, Tape and Reel	DS101		Unknown server		1							
	H20805B272R-10	FERRITE BEAD 100 OHM 0805 1LN	FB1, FB2		Unknown server		2							
	B2B-XH-A(L,F)(SN), Switch	CONN HEADER VERT 2POS 2.5MM, To power Switch	J100, J101		Unknown server		2	JST	B2B-XH-A(L,F)(SN)	Volume Production	Newark	73M9415	0.077	0.154
	560nH	Multilayer Type Inductor for General Circuits, 0805 (2012), 0.56uH, 10%, 0.630, 150mA	L3, L4		Unknown server		2							
	SRR1210-101M	FIXED IND 100UH 2.5A 135MOHM SMD	L100		Unknown server		1	Bourns	SRR1210-101M	Volume Production	Mouser	652-SRR1210-101M	1.23	1.23
	BUZZER	AUDIO PIEZO TRANSDUCER 30V TH	LS100		Unknown server		1							
	ESP32-WROOM-32	RX TXRX MOD WIFI SURFACE MOUNT	MD100		Unknown server		1	Espressif Systems	ESP32-WROOM-32					
	61900311121		P100		Unknown server		1							
	BC847C	NPN Silicon Af Transistor, 45 V VCEO, 100 mA IC, SOT23, Reel, Green	Q100		Unknown server		1							
	1.0K		R1		Unknown server		1							
	1.7K	RES Thick Film, 1.5kΩ, 1%, 0.125W, 100ppm/°C, 0805	R2		Unknown server		1							
	1.5		R3, R4		Unknown server		2							
	NC		R5, R6		Unknown server		2							
	10K	Chip Resistor, 10 KOhm, +/- 1%, 0.125 W, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel	R7		Unknown server		1							
	10R	Chip Resistor, 10 Ohm, +/- 1%, 0.125 W, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel	R8, R102		Unknown server		2							
	2K	Resistor	R100		Not managed		1							
	1K	Chip Resistor, 1 KOhm, +/- 1%, 125 mW, -55 to 155 degC, 0805 (2012 Metric), RoHS, Tape and Reel	R103		Unknown server		1							
	220R		R104		Unknown server		1							
	Boot Button, RESET Button	FSMSM Push Button Switch, 50 mA, -35 to 85 degC, 2-Pin SMD, RoHS, Bulk	SW100, SW102		Unknown server		2							
	TX1_POST, TGND, TX2_POST, TX2_PRE, TX1_PRE, RX	Test Point, Orange, 1-Pin THD, RoHS	TP1, TP2, TP3, TP4, TP5, TP6, TP7		Unknown server		7							
	12V, 3.3V, 12V_IN, GND	Test Point, Red, Through Hole, RoHS, Bulk	TP100, TP101, TP102, TP103		Unknown server		4							
	PN5321A3HN/C106:55	NFC Controller, 13.56 MHz, -30 to 85 degC, 40-Pin HVQFN (SOT618-1), RoHS, Tray	U1		Unknown server		1							
	LM2596S-3.3	SIMPLE SWITCHER® Power Converter 150 KHz 3A Step-Down Voltage Regulator, 5-pin TO-263	U100		Unknown server		1	TI National Semiconductor	LM2596S-3.3	End of Life	Digikey	LM2596S-3.3-ND	9.16	9.16
	7M-27.120MAAJ-T	Crystal 27.12MHz, 30ppm, 18pF, 50Ω	Y1		Unknown server		1							