ESP8266_SENSOR schematic diagram

Components and labels visible in the schematic:

- J1 USBA: VCC, D-, D+, GND
- R1 3R3
- C2 1uF
- U1 ME6211-3.3: VIN, VOUT, VSS, CE, NC
- C1 1uF
- VDD3V3
- P1 TEST-PORT-4P: UART_RX, UART_TX
- ESP-12E&F Module: RST, ADC, EN, GPIO16, GPIO14, GPIO12, GPIO13, VCC, TXD0, RXD0, GPIO5, GPIO4, GPIO0, GPIO2, GPIO15, GND, CS0, MISO, GPIO9, GPIO10, MOSI, SCLK
- R2 10K, C3 100pF, R5 10K
- I2C_SCL, I2C_SDA
- UART_TX, UART_RX
- LED1 RED, LED2 GREEN
- K1 BUTTON
- R3 1K, R4 3K
- C4 100nF, R6 10K, R8 10K
- R10 10K
- R7 4.7K, R9 4.7K
- R11 330R, C5 10uF
- U2: NC, NC, VDD, GND, SCL, SDA
- U3: VCC, SCL, ADDR, DVI, GND, SDA
- C6 100nF, R13 10K, R12 1K, C7 100nF

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Top Overlay

R11
J2
J3
R7
C6
P1
R9
R13
U2
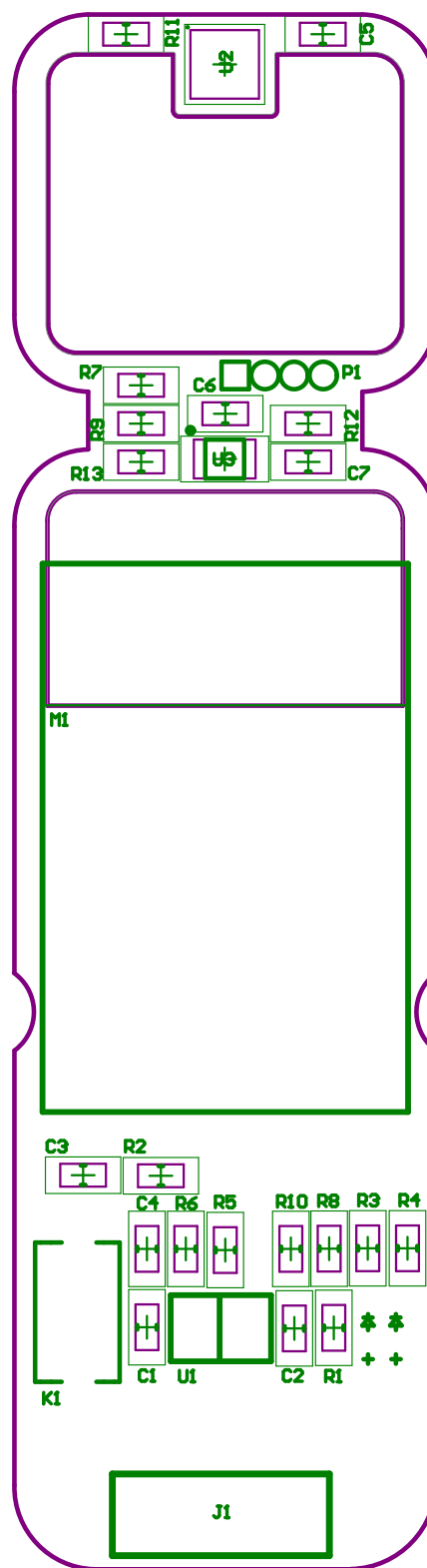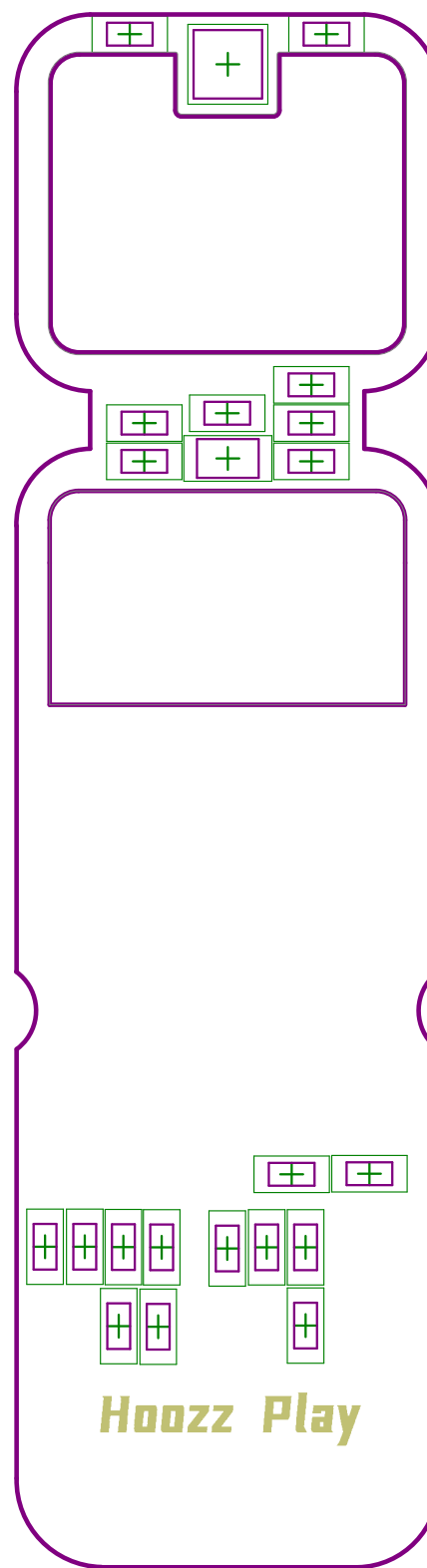C7
R12
M1
C3
R2
C4
R6
R5
R10
R8
R3
R4
K1
C1
U1
C2
R1
J1

Bottom Overlay

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Component list

Bill of Materials For Project [ESP8266_SENSOR_PCB_Project.PrjPCB] (No PCB Document Selected)

Source Data From: ESP8266_SENSOR_PCB_Project.PrjPCB

Project: ESP8266_SENSOR_PCB_Project.PrjPCB

Variant: None

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	Report Date:	2025/9/20	16:01:57
	Print Date:	20-Sep-25	4:02:25 PM

#	Designator	Comment	Value	Footprint	Description	Pins	LibRef	Quantity
1	J1	USBA		USB-A-2	USB2.0	4	USBA	1
2	P1	TEST-PORT-4P		TEST_PORT_4P		4	TEST-PORT-4P	1
3	R1	Res	3R3	0603	Resistor	2	Res	1
4	R2, R5, R6, R8, R10, R13	Res	10K	0603	Resistor	2	Res	6
5	R3, R12	Res	1K	0603	Resistor	2	Res	2
6	R4	Res	3K	0603	Resistor	2	Res	1
7	R7, R9	Res	4.7K	0603	Resistor	2	Res	2
8	R11	Res	330R	0603	Resistor	2	Res	1
9	LED1	RED		LED0603		2	LED	1
10	U1	ME6211-3.3		SOT-23-5	No Description Available	5	ME6211-3.3	1
11	LED2	GREEN		LED0603		2	LED	1
12	M1	ESP-12E&F Module		ESP-12E&F Module	ESP-12E&F Module	22	ESP-12E&F Module	1
13	C1, C2	Cap	1uF	0603	Capacitor	2	Cap	2
14	C3	Cap	100pF	0603	Capacitor	2	Cap	1
15	C4, C6, C7	Cap	100nF	0603	Capacitor	2	Cap	3
16	C5	Cap	10uF	0603	Capacitor	2	Cap	1
17	K1	BUTTON		BUTTON		2	BUTTON	1
18	U3	BH1750		BH1750	BH1750	6	BH1750	1
19	U2	AHT20		AHT20	AHT20	6	AHT20	1

Approved

Notes

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