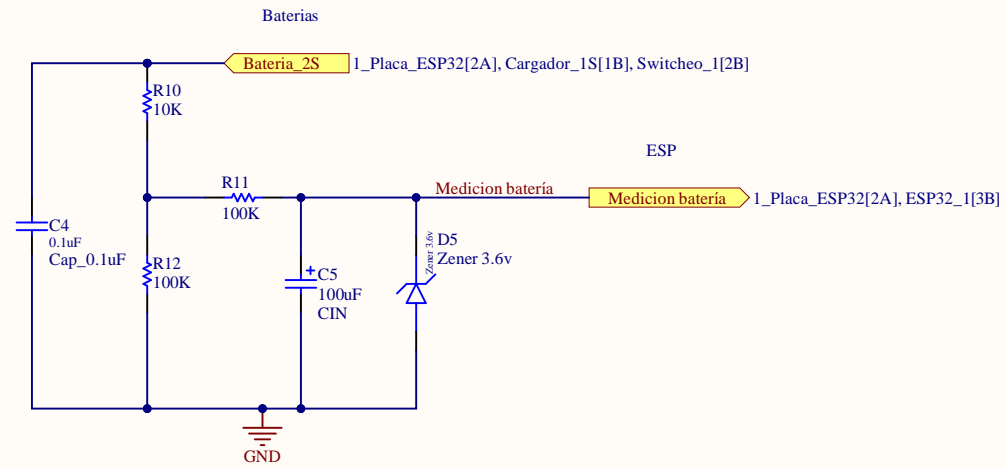


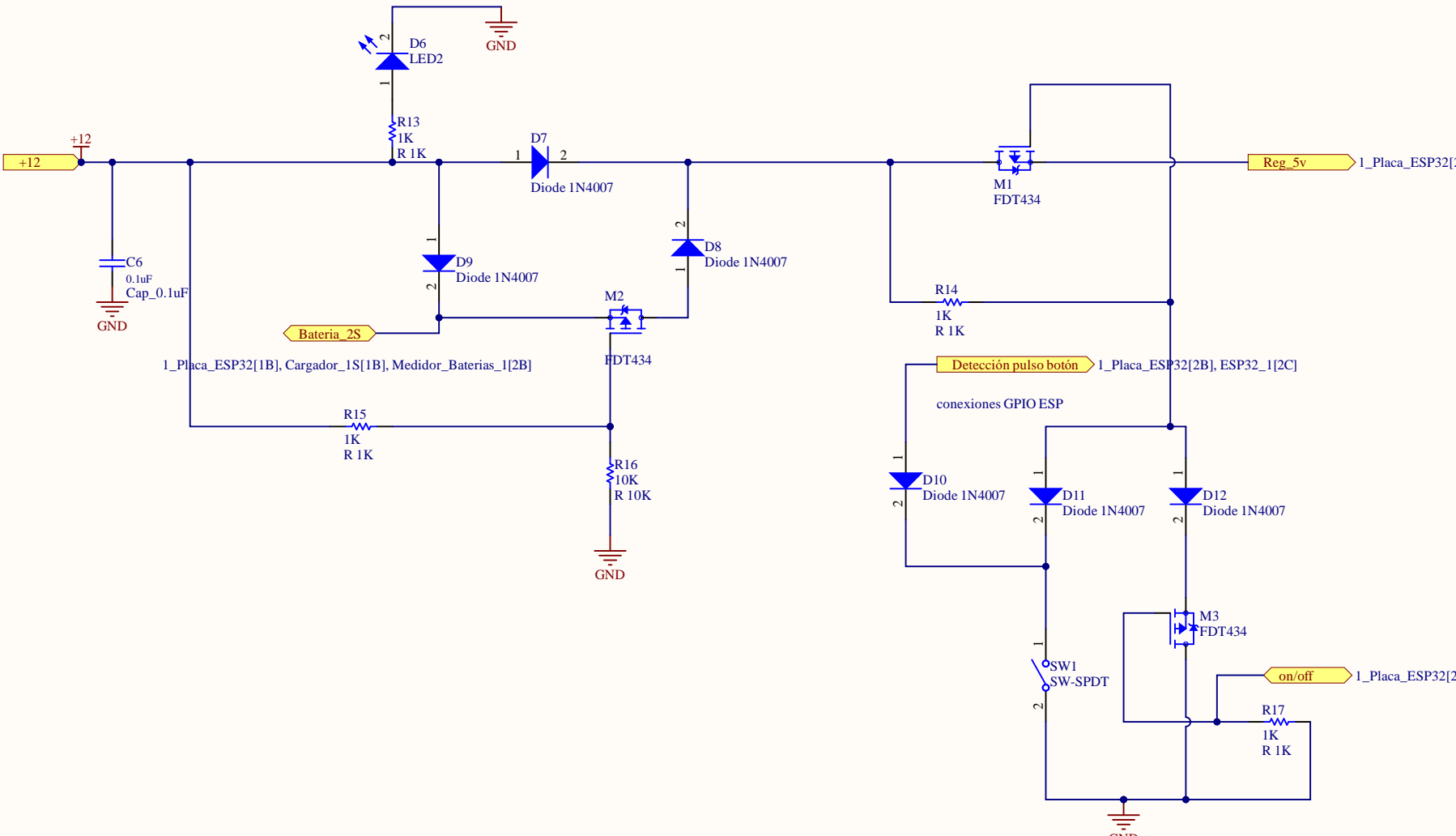


# MEDIDOR DE BATERIA



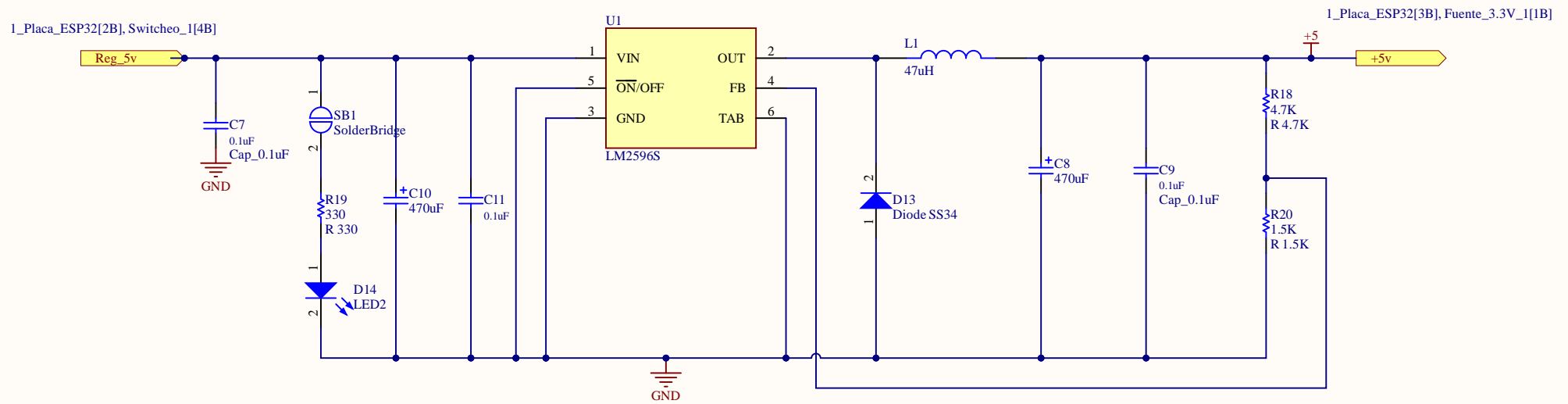
Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\Medidor_Baterias_1.SchDoc	Drawn By:

## CIRCUITO DE SWITCHEO ENTRE LA ALIMENTACIÓN DE 12V Y LAS BATERIAS DE 3.3V



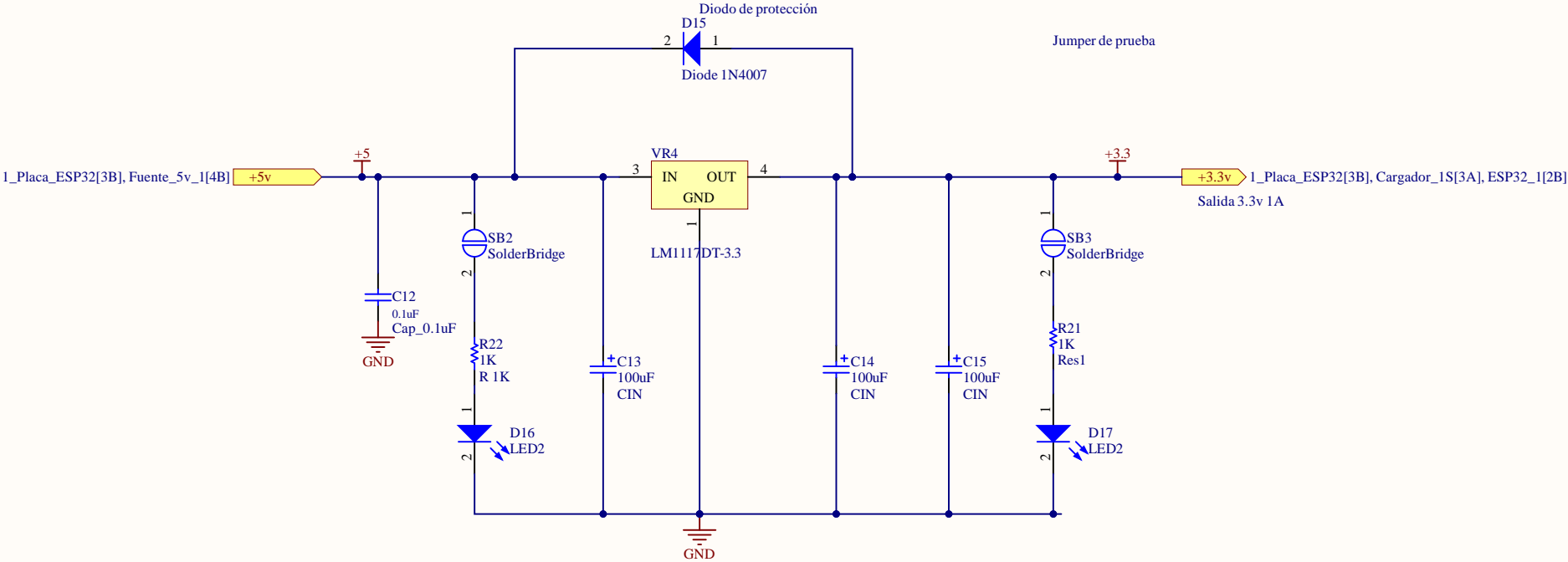
Title		
Size A4	Number	Revision
Date:	3/30/2025	Sheet of
File:	C:\Users\A\Switchgear_1_SchDoc	Drawn By:

## CIRCUITO REGULADOR DE 5V



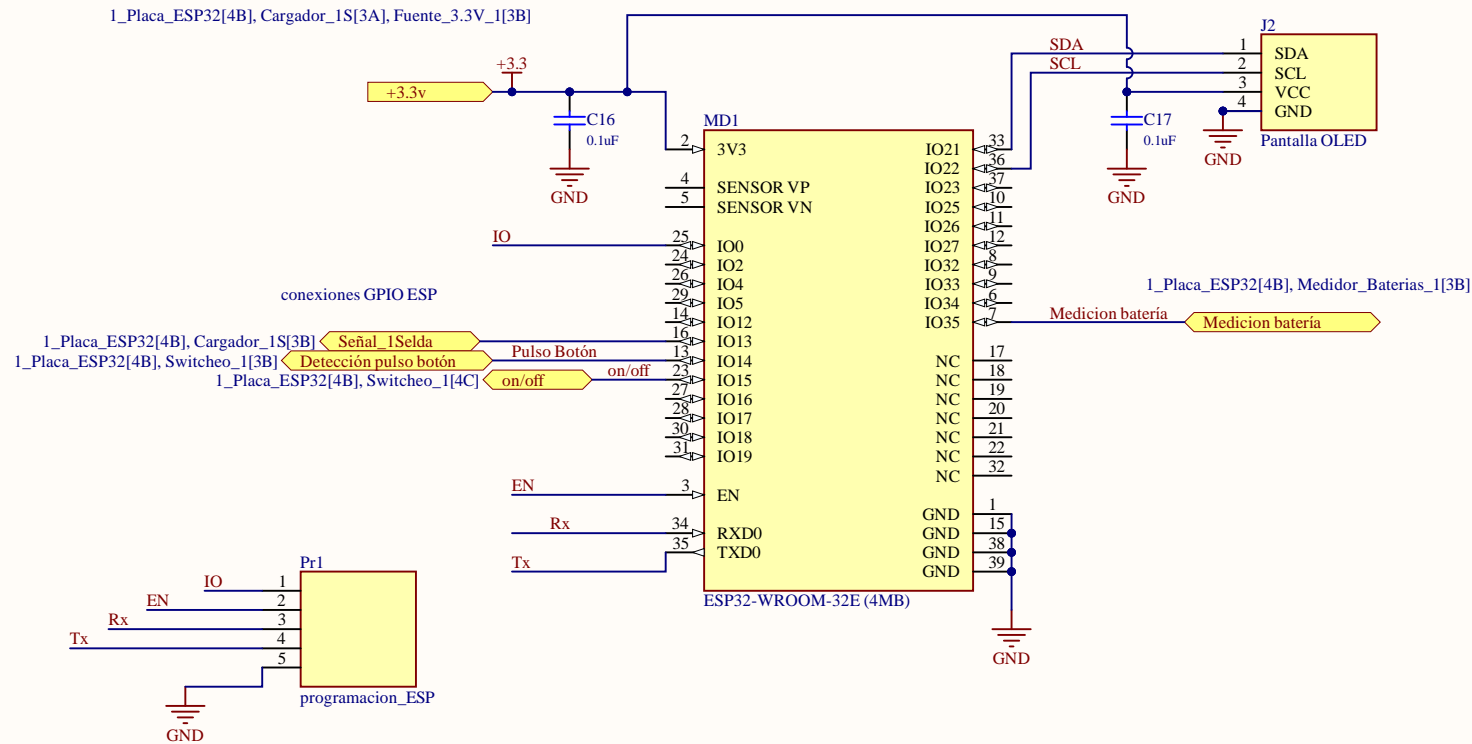
Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\Fuente_5v_1.SchDoc	Drawn By:

FUENTE 3.3V



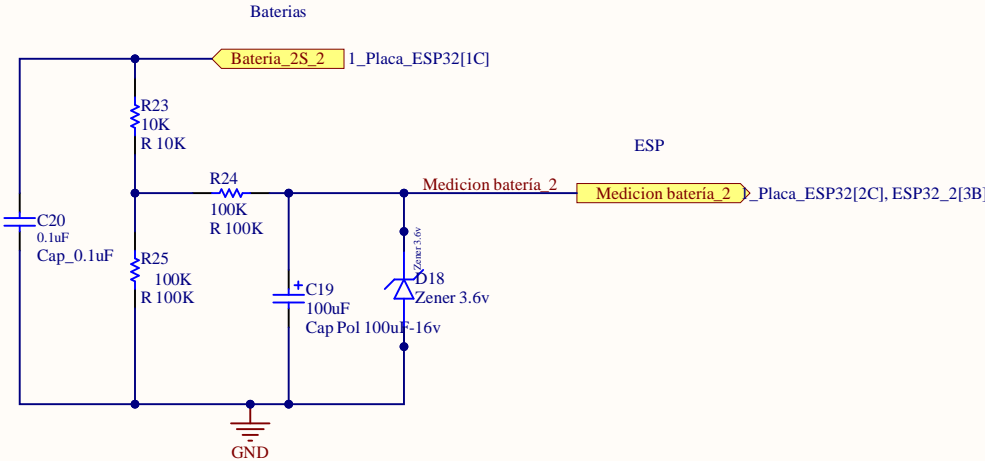
Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\Fuente_3.3V_1.SchDoc	Drawn By:

# CIRCUITO ESP32 WROOM Y PANTALLA DEL DISPOSITIVO



Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\ESP32_1.SchDoc	Drawn By:

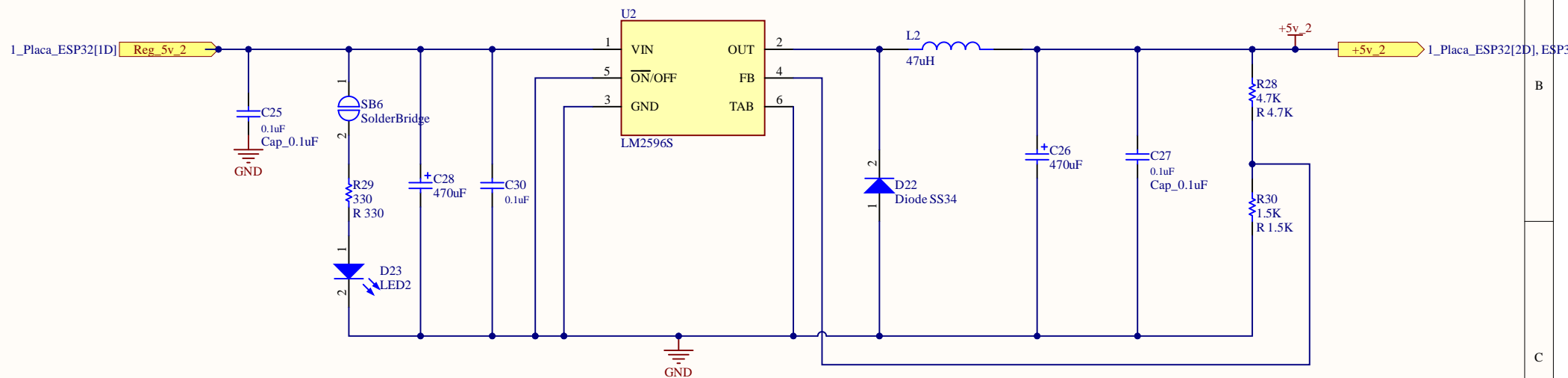
MEDIDOR DE BATERIA



Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\MEDIDO_DE_BATERIA_2_SchDoc	Drawn By:

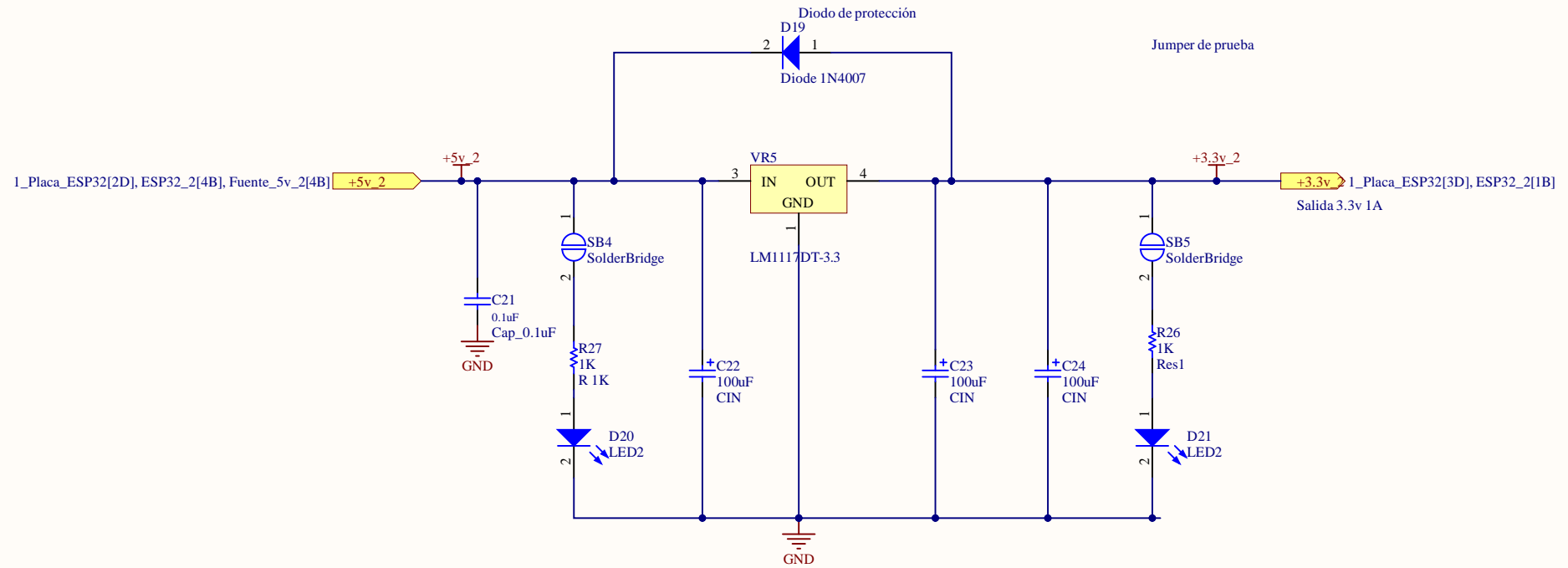


# CIRCUITO REGULADOR DE 5V



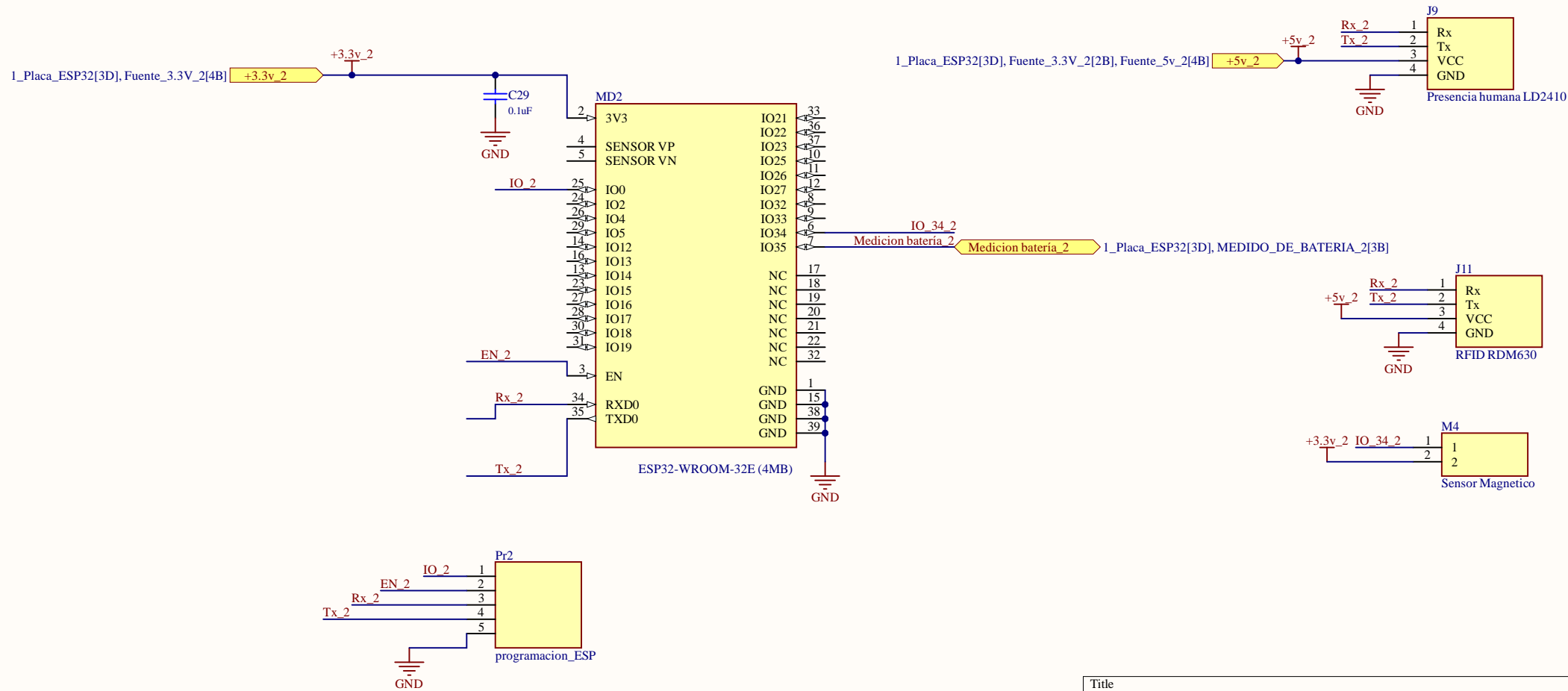
Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\Fuente_5v_2.SchDoc	Drawn By:

FUENTE 3.3V

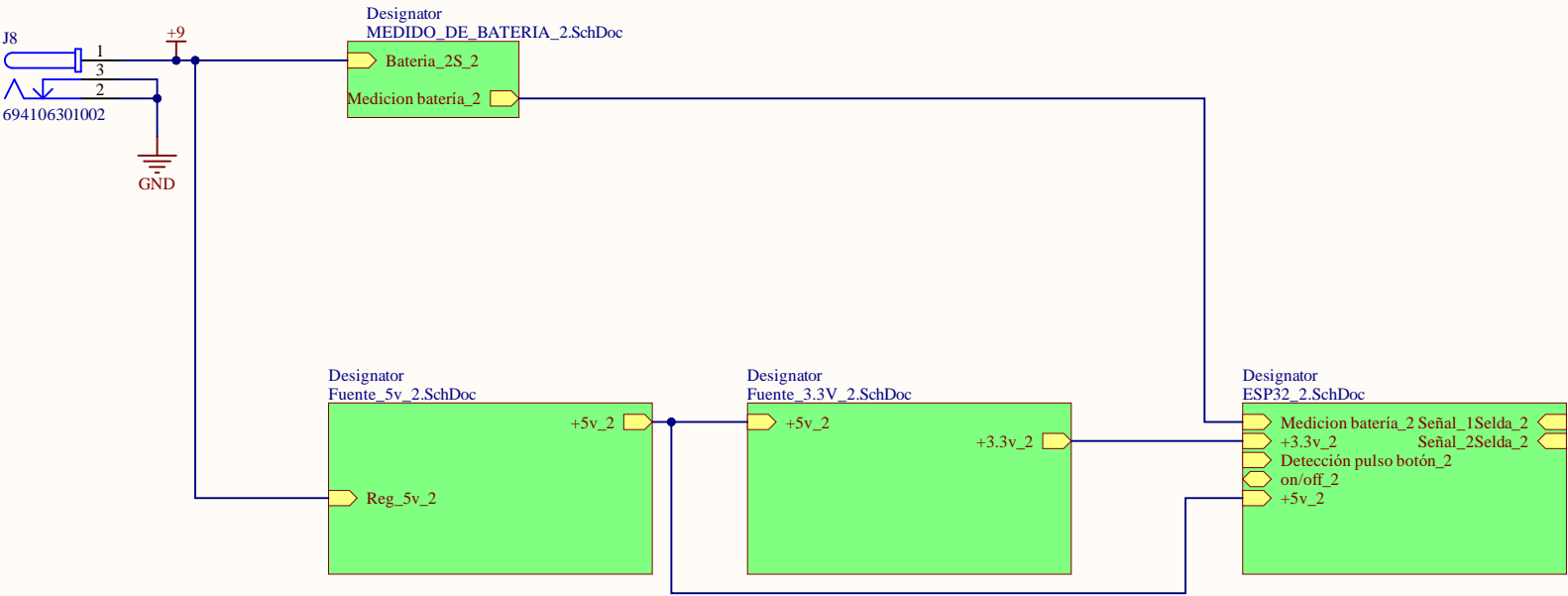


Title		
Size A4	Number	Revision
Date:	3/30/2025	Sheet of
File:	C:\Users\...\Fuente_3.3V_2.SchDoc	Drawn By:

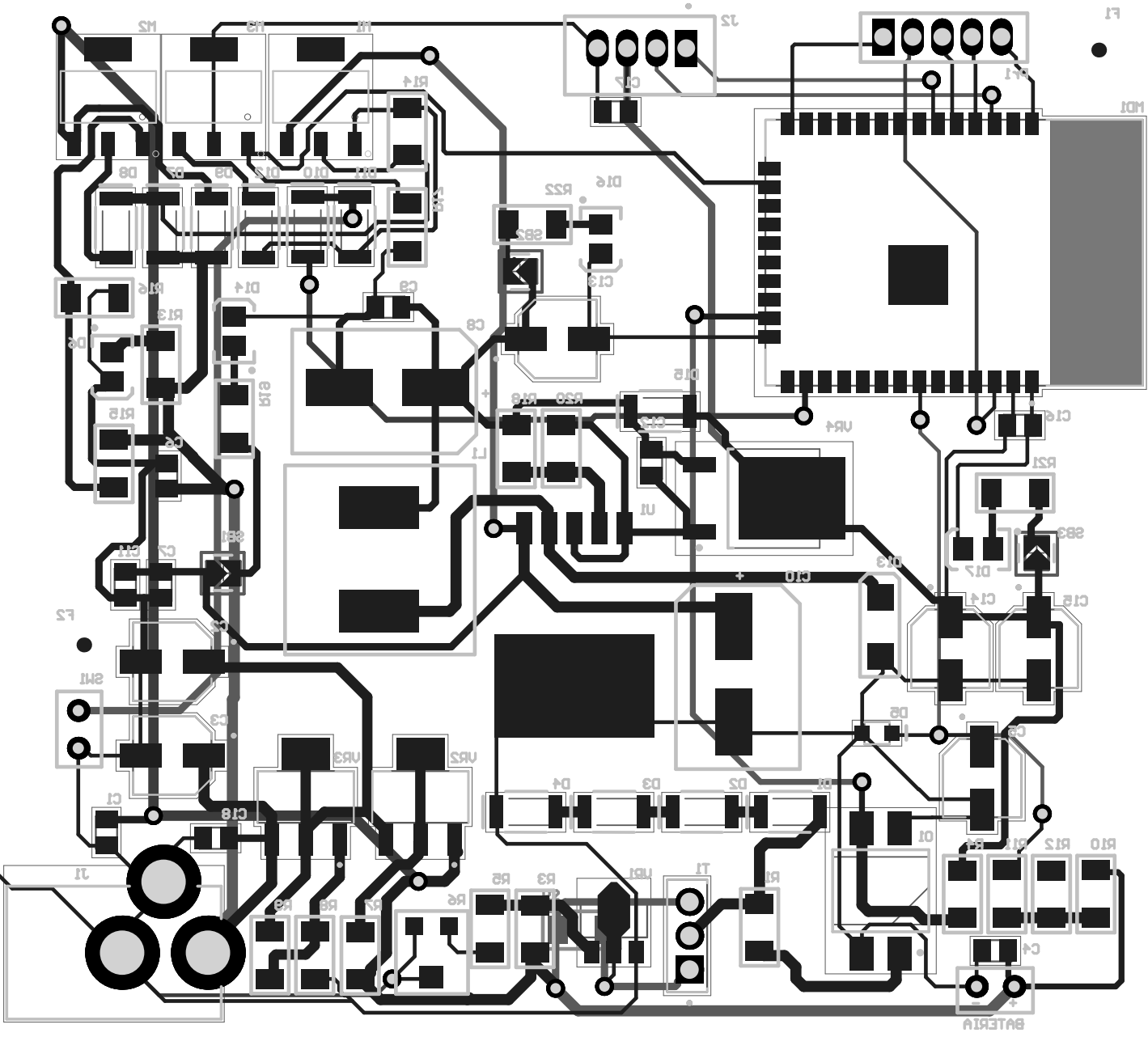
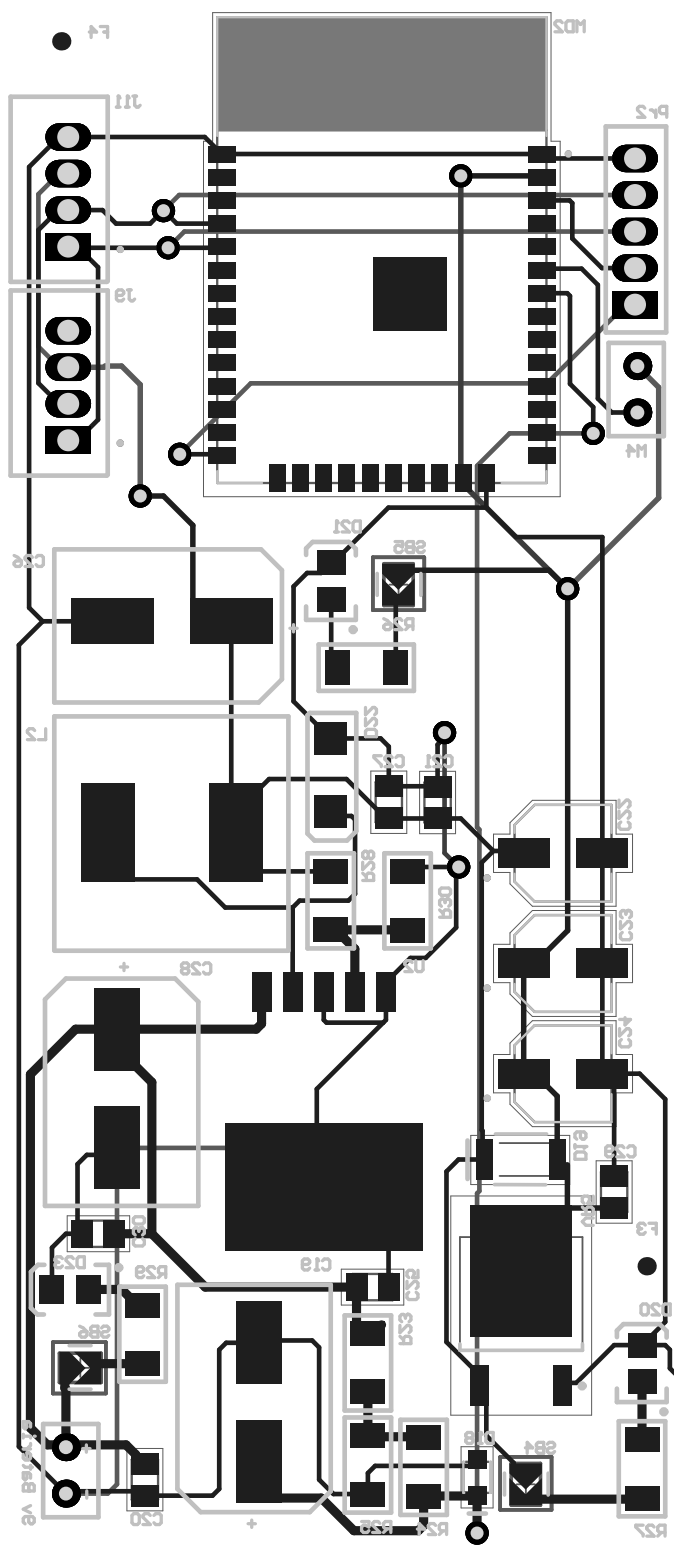
# CIRCUITO ESP32 WROOM Y CONEXIÓN DE SENSORES DEL DISPOSITIVO



Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\ESP32_2.SchDoc	Drawn By:



Title		
Size	Number	Revision
A4		
Date:	3/30/2025	Sheet of
File:	C:\Users\...\2_Placa_sensores.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
Bateria		9vBateria, BATERIA	BATERIA	Bateria	2
Cap_0.1uF	CC0805 0.1uF 50v	C1, C4, C6, C7, C9, C11, C12, C16, C17, C18, C20, C21, C25, C27, C29, C30	CAP0806	Cap_0.1uF	16
CIN	[NoValue], Polarized Capacitor (Radial)	C2, C3, C5, C13, C14, C15, C22, C23, C24	Cap 16v 100uF	Cap Pol 100uF-16v, Cap Pol1	9
Cap Pol 470uF-16v		C8, C10, C26, C28	Capacitor Alum	Cap Pol 470uF-16v	4
Cap Pol 100uF-16v		C19	Capacitor Alum	Cap Pol 100uF-16v	1
Diode 1N4007		D1, D2, D3, D4, D7, D8, D9, D10, D11, D12, D15, D19	Diode 1N4007	Diode 1N5400	12
Zener 3.6v	Rectifier Diode 3.6v SOD-323 T/R	D6, D18	Zener 3.6v SOD-323	Zener 3.6v	2
LED2	Typical INFRARED GaAs LED	D6, D14, D16, D17, D20, D21, D23	Led0805 Verde	LED0	7
Diode SS34		D13, D22	SS34	Diode SS34	2
fiducial		F1, F2, F3, F4	fiducial	fiducial	4
		J1	JACKDC	JACKDC	1
Pantalla OLED		J2	MODULE_DIM-OLED096-636 - duplicate	Pantalla OLED	1
Presencia humana LD2410		J9	MODULE_DIM-OLED096-636 - duplicate	Presencia humana LD2410	1
RFID RDM630		J11	MODULE_DIM-OLED096-636 - duplicate	RFID RDM630	1
47uH	Inductor with Inductance: 4.7uH Tol. +/-20%, Package: 2424 (6060)	L1, L2	Inductor	Inductor	2
FDT434		M1, M2, M3	FDT434-p	FDT434	3
Sensor Magnetico		M4	I/O	Sensor Magnetico	1
ESP32-WROOM-32E (4MB)	RXTXRXMOD WIFI TRACE ANT SMD	MD1, MD2	XCVR_ESP32-WROOM-32E_4MB_HIGH_TEMP)	WROOM-ESP32	2
PC817		O1	Octo PC817	Optocouplers	1
programacion_ESP		Pr1, Pr2	Progra	programacion_ESP	2
R330	Resistor 330 Ω	R1, R19, R29	RES1206	R330	3
R1K	Resistor 1k Ω	R2, R13, R14, R15, R17, R22, R27	RES1206	R1K	7
R20K	Resistor 20k Ω	R3, R5	RES1206	R20K	2
R10K	Resistor 10k Ω	R4, R10, R16, R23	RES1206	R10K	4
RPot	Potentiometer	R6	Potenciometro smd	RPot	1
R2	Resistor 2 Ω	R7	RES1206	R2	1
R4.7K	Resistor 4.7k Ω	R8, R18, R28	RES1206	R4.7K	3
R517	Resistor 517 Ω	R9	RES1206	R517	1
R100K	Resistor 100k Ω	R11, R12, R24, R25	RES1206	R100K	4
R1.5K	Resistor 1.5k Ω	R20, R30	RES1206	R1.5K	2
Res1	Resistor	R21, R26	RES1206	Res1	2
SolderBridge		SB1, SB2, SB3, SB4, SB5, SB6	SOLDER BRIDGE	SolderBridge	6
SW-SPDT	SPDT Subminiature Toggle Switch, Right Angle Mounting, Vertical Actuation	SW1	I/O	SW-SPDT	1
BD140		T1	BD140	BD140	1
LM2596S	SIMPLE SWITCHER & reg. 4.5V to 40V, 3A Low Component Count Step-Down Regulator 5-DDPAKT0-263	U1, U2	LM2596S	LM2596S	2
TL431		VR1	TL431	TL431	1
Im317		VR2, VR3	LM317	Im317	2
LM1117DT-3.3	800mA Low-Dropout Linear Regulator, 3-pin TO-252	VR4, VR5	LM1117	LM1117DT-3.3	2