

Bill of Materials

Bill of Materials For Project [ESP32_EGG_INCUBATION.PrjPcb] (No PCB Document Selected)

Source Data From: ESP32_EGG_INCUBATION.PrjPcb
 Project: ESP32_EGG_INCUBATION.PrjPcb
 Variant: None



Creation 11/8/2022 8:54:43 AM
 Print Date 08-Nov-22 9:53:57 AM

#	Footprint	Comment	LibRef	Designator	Description	Quantity	Price	Total
1	CAP-SMD-0805	104	Cap-Non-SMD	C1, C7, C8, C15, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C28, C29, C30	Non-polar capacitor	17	0	0.000
2	CAP-SMD-0805	103	Cap-Non-SMD	C2, C3, C4, C5, C14	Non-polar capacitor	5	0	0.000
3	CAP-SMD-0805	102	Cap-Non-SMD	C6	Non-polar capacitor	1	0	0.000
4	CAP-SMD-2512	226	Cap-Pol-SMD	C9, C10, C11, C12	Non-polar capacitor	4	0	0.000
5	CAP-SMD-0805	105	Cap-Non-SMD	C13	Non-polar capacitor	1	0	0.000
6	CAP-SMD-0805	106	Cap-Non-SMD	C23, C27, C31	Non-polar capacitor	3	0	0.000
7	DIO-SMD-106	1N4001	1N4001	D1, D2, D3, D7, D8	1.0A RECTIFIER	5	0.006	0.030
8	SOD-323	BAT60	BAT60	D4	DIODE SCHOTTKY 10V 3A SOD323-2	1	0.008	0.008
9	DIO-SMD-106	6V	ZENER	D5	DIODE-ZNR 5.1V 5% PD=1W IR=10uA	1	0.007	0.007
10	DIO-SMD-106	9V	ZENER	D6	DIODE-ZNR 5.1V 5% PD=1W IR=10uA	1	0.007	0.007
11	LED0603-IPC	12V	LED 0603 Red	D9	LED RED CLEAR 0603 SMD	1	0.003	0.003
12	LED0603-IPC	5V	LED 0603 Yellow	D10	LED YELLOW CLEAR 0603 SMD	1	0.003	0.003
13	LED0603-IPC	3.3V	LED 0603 Green	D11	LED GREEN CLEAR 0603 SMD	1	0.003	0.003
14	BUZZER	PKM5	BUZZER	E1	ALARM-AUDIBLE PIEZO ALARM PIN TYPE	1	0.1	0.100
15	Fuse-SMD 2920	2A	Fuse SMD	F1		1	0	0.000
16	TO263	LM2596	LM2596	IC1	Power IC	1	0	0.000
17	KF2/5.08	FAN-VENT	JP2	J1, J2, J3, J4		4	0	0.000
18	IDC10	PROGRAM	IDE_5X2	J5	Male Box Header WR-BHD, THT, Vertical, pl	1	0.07	0.070
19	KF3/5.08T	DHT22	JP3	J6		1	3.5	3.500
20	KF2/5.08	JUMPER	JP2	J7		1	0	0.000
21	5026_INDUCTOR	482R2SC	INDUCTOR_FE	L1, L2	2.2uH Shielded Wirewound Inductor 8.2A 10	2	0.11	0.220
22	ESP32-S-Footprint	ESP32-S	ESP32-S	M1	Tensilica Xtensa LX6 microprocessor @ 160	1	2.3	2.300
23	LCD_176X220_MC	ST7775R	LCD_176x220	M2		1	0	0.000
24	TO228P970X238-3	AO3416	AO3416	Q1	N-Channel 16A (Tc) 79W (Tc) Surface Moun	1	0.009	0.009
25	SOT23(123)	SS8050	NPN	Q2	Transistor, NPN, RF, 50mA, 12V	1	0	0.000
26	TO252AA	BT137	SCR	Q3, Q5	THYRISTOR-TRIAC TO-220AB VRRM=600	2	0.06	0.120
27	SOT23(123)	SS8050	NPN	Q4, Q6, Q7, Q9	Transistor, NPN, RF, 50mA, 12V	4	0	0.000
28	TO252AA	BT137	SCR	Q8	THYRISTOR-TRIAC TO-220AB VRRM=600	1	0.06	0.060
29	RES-SMD-0805	RES-2512-4.7R	RES	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R15, R16, R17, R18, R20, R21, R44, R14, R19	Chip Resistor, 0805, 1%, 1/8 W	24	0.005	0.120
30	RES-SMD-0805	RES	RES	R14, R19	Chip Resistor, 0805, 1%, 1/8 W	2	0.005	0.010
31	RES-SMD-0805	R0805	RES	R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43	Chip Resistor, 0805, 1%, 1/8 W	22	0.005	0.110
32	TL3342F260QG	RESET	SWITCH TACTIL	S1	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
33	TL3342F260QG	BOOT	SWITCH TACTIL	S2	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
34	TL3342F260QG	TEMP+	SWITCH TACTIL	S3	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
35	TL3342F260QG	RH+	SWITCH TACTIL	S4	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
36	TL3342F260QG	TURN+	SWITCH TACTIL	S5	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
37	TL3342F260QG	TEMP-	SWITCH TACTIL	S6	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
38	TL3342F260QG	RH-	SWITCH TACTIL	S7	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
39	TL3342F260QG	TURN-	SWITCH TACTIL	S8	SWITCH TACTILE SPST-NO 0.05A 12V	1	0.25	0.250
40	SOIC-8S	LM358	LM358	U1, U5	7mV 250nA 7uV/C 1MHz 0.6V/uS 0.8mA 3-3	2	0	0.000
41	DIP6	MOC3020Z	MOC3020Z	U2, U3	OPTO-ISOLATOR LED-PTRIAC IF=50mA-m	2	0.1	0.200
42	TO252AA	LM317	LM317	U4	1A Bipolar Linear Regulator	1	0.08	0.080
43	SOIC-16S	74595	74595	U6, U7	CD74HC595 8-Bit Shift Registers With 3-Sta	2	0.05	0.100
						128		9.060

Approved	Notes