



Unnecessary LEDs

These LEDs will not be visible from the outside, so you don't really need to populate them. I just added them because I wanted to :P

Title		
Size	Number	Revision
A4		
Date:	4.14.2021	Sheet of
File:	F:\OneDrive\...\ESP Board.SchDoc	Drawn By:

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	10nF		C1, C12	2	Samsung	CL21B103KBANNNC	Volume Production	Digi-Key	1276-1015-1-ND	0,1	0,2
	100nF		C2, C4, C8, C9, C11, C13	6	Samsung	CL21B104KACNNNC	Volume Production	Digi-Key	1276-1099-1-ND	0,041	0,41
	330uF		C3	1	KEMET	ESH337M035AH1AA	Volume Production	Digi-Key	399-6581-ND	0,41	0,41
	1nF		C5, C10	2	Samsung	CL21B102KBANNNC	Volume Production	Digi-Key	1276-1020-1-ND	0,1	0,2
	10uF		C6, C7	2	Samsung	CL21A106KAYNNNG	Volume Production	Digi-Key	1276-6454-1-ND	0,21	0,42
	Diode	Cmon its a diode what more do I need to say?	D1, D2, D7	3	Diodes	B130-13-F	Volume Production	Digi-Key	B130-FDICT-ND	0,36	1,08
	Power		D3	1	Osram Opto	LGR971-KN-1	Volume Production	Digi-Key	475-1410-1-ND	0,26	0,26
	NOP		D4, D5, D6	3	Wurth Electronics	150060GS75000	Volume Production	Digi-Key	732-4971-1-ND	0,14	0,42
	ADR03	Precision voltage reference 0.1%	IC1	1	Analog Devices	ADR02ARZ	Volume Production	Digi-Key	ADR02ARZ-ND	3,03	3,03
	MCP3301	13 bit differential ADC	IC2	1	Microchip	MCP3301-BI/SN	Volume Production	Digi-Key	MCP3301-BI/SN-ND	2,92	2,92
	VIn 20V max		J1	1	CUI	PJ-082BH	Volume Production	Digi-Key	CP-082BHCT-ND	1,71	1,71
	47uH		L1	1	Murata	LQH43PN470M26L	Volume Production	Digi-Key	490-12050-1-ND	0,4	0,4
	ESP32 dev Board	Dev board of the esp32	MCU1	1							
	Front end	Header, 4-Pin, Dual row	P1	1							
	Motor	Header, 2-Pin	P2	1	Kitronik	2546	Unknown	Digi-Key	1927-1023-ND	1,58	1,58
	Mosfet N		Q1	1	Toshiba	T2N7002AK,LM	Volume Production	Digi-Key	T2N7002AKLMCT-ND	0,16	0,16
	2.2k		R1	1	Yageo	RC0805JR-072K2L	Volume Production	Digi-Key	311-2.2KARCT-ND	0,1	0,1
	4.7k		R2	1	Yageo	RT0805FRE074K7L	Not Recommended for New Design	Digi-Key	YAG3364CT-ND	0,1	0,1
	220		R3, R4, R5, R6	4	Yageo	RC0805FR-07220RL	Volume Production	Digi-Key	311-220CRCT-ND	0,1	0,4
	100		R7	1	Yageo	RC0805FR-07100RL	Volume Production	Digi-Key	311-100CRCT-ND	0,1	0,1
	1k		R8	1	Yageo	RC0805FR-071KP	Volume Production	Digi-Key	YAG1321DKR-ND	0,1	0,1
	1.2k		R9	1	Yageo	RC0805JR-071K2L	Volume Production	Digi-Key	311-1.2KARDKR-ND	0,1	0,1
	300		R10	1	Yageo	RC0805JR-07300RL	Volume Production	Digi-Key	311-300ARCT-ND	0,1	0,1
	AP1509	Fixed voltage buck regulator	REG1	1	Diodes	AP1509-50SG-13	Volume Production	Digi-Key	AP1509-50SGDICT-ND	1,39	1,39



