Description	Designator	Number	Quantity	Comment
Wire-To-Board Terminal Block, 2,				
150 V, 10 A, 30 Awg, 16 Awg, 1.4	- 84 +, - 85 +, - CD			
Mm N-channel 60 V.			3	282834-2
0.014 Ohm typ., 35 A StrinFFT II Power				
Mm N-channel 60 V, 0.014 Ohm typ., 35 A StripFET II Power MOSFET in a TO- 220 package	4_BLEED, 5_BLEED	STPSSNF06L	2	(MOSFET)
	4_BYPASS,			
N-Channel Logic Level MOSFET, 30 V, 30 A, 3-Pin SOT78, Tube	4_CUTOFF, 4_CUTOFF, 5_BYPASS, 5_CUTOFF	l		
SOT78, Tube	S_CUTOFF		5	NXP-NMOS-GDS-
Conn Harbrood	1	l		
Conn Unshrouded Header HDR 2 POS 2 Samm Solder ST	1	l		
2.54mm Solder ST Thru-Hole Automotive Box	5V_EN, VIN_EN, VIN_EN2	825433-2	3	825433-2
		ARDITINO NANO	3	
Arduino Nano 3.0	Arduino Nano	3.0	1	Arduino ARDUINI NANO 3.0
Electrolytic capacitor Radial				
Electrolytic capacitor Radial lead 2 mm 10 µF 50 V 20 % (Ø) 5				
Ceramic Capacitor,	C1, C2	ECE-A1HKA100		Cap Pol2
0.1uf, 50v, X7r, 10%, 0603, Full				
Reel Schottky Power Rectifier, 2-Pin Powermite, Pb- Free, Tape and	L3		1	0.1uF
Rectifier, 2-Pin Powermite, Pb-				
	D1	MBRM140T3G		MBRM140
Header Connector, PCB				
	1	l		1
Mount, RECEPI, 15 Contacts, PIN, 0.1 Pitch, PC TAIL Terminal	11, 12, 13, 14	<u></u>	4	15 Pin Female
Semi-shielded Power Inductor, 10 uH, +/- 20%, 1 A, -40 to 125 degC, 3 x 3 x 1.5 mm SMD, RoHS and Halogen Free, Tape and Reel KEYSTONE 5002 Series:	1	l		
A, -40 to 125 degC, 3 x 3 x 1.5	1	l		
mm SMD, RoHS and Halogen Free.	1	l		
Tape and Reel KEYSTONE 5002	L1	SRN3015-100M	1	SRN3015-100M
Series:- Nodemcu V2 Lua	LIGHT SENSE	5002	1	BYPASS
Based ESP8266 Dev	NodeMCU	113990105	1	Seeed Studio 113990105
CONN HEADER R/A 2POS 2.54MM				
Pot	PHOTORES PHOTORES ADJ	3296Y-1-203LF	1	0022053021 20k
Trans MOSFET N- CH 60V 0.31A				
Automotive 3-Pin	Q1, Q5	l	2	BLEED_EN
RES SMD 49.9KOHM 0.1% 1/10W 0603				
1/10W 0603	R1, R6, R34, R39	ERA-3AEB4992V	4	50k
	R2, R3, R4, R5, R7, R8 R9 R11 R12	l		
	R14, R15, R16, R24, R25, R24	l		
	R27, R28, R29, R30, R32, R35	l		
	R2, R3, R4, R5, R7, R8, R9, R11, R12, R14, R15, R16, R24, R25, R26, R27, R28, R29, R30, R32, R35, R36, R37, R38, R40, R41, R42, R44 R45, R47,	l		
	R44, R45, R47, R48 R49 DE7	l		
RES SMD 100K OHM 0.1% 1/SW	R44, R45, R47, R48, R49, R57, R58, R59, R60, R61, R62, R63,	l		
	R65, R78, R81, R82		43	100k
In a Pack of S, TE Connectivity 3.3? SW Wire Wound Resistor ±5% ±300ppm/C	1	l		1
ow Wire Wound Resistor ±5%	1	l		
±300ppm/°C SQMW53R3J Chip Resistor, 1	R10, R43	SQMW53R3J	2	3.3
Chip Resistor, 1 MOhm, +/- 1%,				
Chip Resistor, 1 MOhm, +/- 1%, 100 mW, -55 to 155 degC, 0603 (1608 Metric).	1	l		1
	1	l		
Reel	R13, R46	RC0603FR-071ML	2	1M
	R17, R18, R21, R22, R50, R51, R54, R55, R73, R75, R84, R85,	l		1
	N54, R55, R73, R75, R84, R85,	l		
Res, Auto, Thick Film, 100K, 5%, 0603	R86, R89, R90, R91, R92, R93, R94, R95, R96, R97	l		1000
0603 RES SMD 90.9K OHM 0.1% 1/SW	n.a.a., 1023, 1036, 1097		22	I VOR
	R19, R52		2	90.9k
Kes Thick Film 0603 95.3K Ohm				
0603 Res Thick Film 0603 95.3K Ohm 1% 0.1W(1/10W) ±100ppm/C Pad SMD T/R	1	l		1
	R20, R53	RC0603FR-0795K3L	2	95.3k
Res Cermet Trimmer 10K Ohm	1	l		1
100K 1 /7W				
25(Elec)Turn 2mm (9.6 X 5 X 11.3mm) Pin Thru-Hole Bulk	R23, R56	l	2	10k
Res Thick Film 0603 33K Ohm 1% 0.1W(1/10W)				
0.1W(1/10W) ±100ppm/C Molded SMD				
Automotive	1			1
Punched T/R Res Thick Film	R31, R33, R64, R66	ERJ-3EKF3302V	4	33k
Res Thick Film 0603 1.05M Ohm 1% 0.1W(1/10W) ±100ppm/C Pad SMD Automotive	1			1
±100ppm/C Pad SMD Automotive	1	CRCW06031M05FK		
1/8	R67	EA	1	1.05M
Res Thin Film 0603 10K Ohm 0.1%	1	l		
1/10W ±2Sppm/°C Molded SMD SMD Punched Carrier				
Punched Carrier T/R	R68, R71, R76, R79	ERA-3AEB103V	4	10k
Par Thin Eller 0502				
1M Ohm 0.1%	1	l		
1M Ohm 0.1% 1/16W ±2Sppm/°C Molded SMD SMD Paper T/R	R69, R72, R77, R80	CPF0603B1M0E1		1M
Paper I/K Res Thick Film 0603 56K Ohm 1%		TOWARDE	1	
0.1W(1/10W)	1			1
0.1W(1/10W) ±100ppm/C Pad SMD T/R	R70	RC0603FR-0756KL	1	56k
Res Ww Current				
Res Ww Current Sense Sr3 0.01 1% E66 E3 Axl Th Rohs	1			1
Res Thirk Film	R74	SR3R0100FE66	1	10m Ohm
	1	l		
0.25W(1/4W) ±200ppm/C Pad SMD Automotive	1			1
	R83	ESR03EZPJ102	1	1k
Res Thick Film 0603 22K Ohm 1%	1			1
0.1W(1/10W) ±100ppm/C Pad SMD T/R	R87. R88	RC0603FR-0722KL		220
ONN HEADER		KCUBUSHR-0722KL	2	eek
CONN HEADER R/A 2POS 2.54MM CONN HEADER	T4		- 1	14
R/A 2POS 2.54MM 8-SOIC Dual Op-	TS U1, U2, U3, U4,		1	TS TS
Amo	U1, U2, U3, U4, U5, U6, U8, U9			LM358DR
22// Outo - * * * *	1	l		
Amp 32V Output; 1.8A Switch; Non- synchronous				
synchronous				
32V Output; 1.8A Switch; Non- synchronous Boost Regulator in SOT235 SOT- 23T/R Multiplexer IC Ope	U7	MCP1663T-E/OT CD4051BM96	1	MCP1663T CD4051BM96













