



Comment	Description	Designator	Footprint	LibRef	Quantity
10uF16V	Cap Tant Solid SMD 3216-18 3	C1, C3, C5, C7,	CAP10uF16VDC	CapacitorP	
0.1uF	Ohm 125ŰC T/R CAP SMD	C17 C2, C4, C6, C8, C9, C13, C14, C15, C16, C18, C19, C20, C23, C24, C25, C26, C27,	CAP1206	Capacitor	
		C28, C29, C30, C31			
0.1nF	CAP SMD	C10	CAP1206 CAP1206	Capacitor	
22pF	Schottky Diode	C11, C12, C21, C22 D1, D3, D7, D8,		Capacitor	
SS34	(SMA)	D9, D10, D12	SS36	Schottky Diode	
SMAJ5.0A	Schottky Diode (SMA)	D2	SS36	Schottky Diode	
Red Green	LED LED	D4, D6 D5	LED1206 LED1206	LED LED	
IR	5MM IR	D11	IR-5mm	IR .	
TB6612FNG	TRANSMITTER Motor Driver Power MOSFET Parallel	DM1	TB6612FNG	TB6612FNG	
Fuses	24-SSOP Polymeric PTC	F1. F2	FUSE1206	Fuse	
2Cnts-S	Resettable Fuse 2Cnts-S	.11	2CNTS-PH-2mm	2Cnts-S	
PJ-002A	2.0 x 6.5 mm, 2.5 A, Horizontal, Through Hole, Dc Power Jack Connector	J2	DC Power Jack	DC Power Jack	
USB_Type_B	USB-B (USB TYPE- B) USB 2.0 Receptacle Connector 4 Position Through Hole, Right Angle	J3	USB_Type_B	USB_Type_B	
RJ11	Jack Modular Right Angle Through Hole RJ12 6 Pos 6 Cnts Gold Molex Incorporated 95501- 2661	J4, J5, J6, J7	RJ11-6P6C	RJ11-6P6C	
2Cnts-S 6Cnts-S	2Cnts-S	J8, J9 J10, J11	2Cnts-S-Right 6Cnts-S	2Cnts-S 6Cnts-S	
6Cnts-S 3Cnts-S	6Cnts-S 3Cnts-S	J10, J11 J12	6Cnts-S 3Cnts-S	6Cnts-S 3Cnts-S	
TSOP34838	Remote Receiver Sensor 38.0kHz 45m Through Hole	J13	TSOP34856	TSOP34856	
1Cnts-S 4Cnts-S	1Cnts-S 4Cnts-S	J14, J15, J16, J17 J18	Hole3 4Cnts-S	1Cnts-S 4Cnts-S	
6Cnts	6Cnts SMT Inductor with	J19	6Cnts-D-SMD	6Cnts SMT	
4.7uH	Inductance 6.8uH Tol.+/-20%	L1, L2	Inductor1515	Inductor	
Photocell	Photocell Analog Output 2-Pin 12 mm, 5 V, 85 dB,	LS1	Photocell	Photocell	
Buzzer	Through Hole, Sealed, Magnetic Audio Transducer Buzzer	LS2	TMB12A05	TMB12A05	
P-Ch	P-Channel 20 V 3.7A (Ta) 1.3W /SOT-23 Bipolar (BJT)	Q1, Q2	IRLML6402TRPBF	IRLML6402TRPBF	
NPN	Transistor NPN 40V 600mA 300MHz 250mW Surface Mount SOT23: TO- 236AB	Q3, Q4, Q6, Q7	PMBT2222A	PMBT2222A	
SS8550	Bipotar (BJT) Transistor PNP 25 V 1.5 A 100MHz 300 mW Surface Mount SOT-23	Q5	SS8550	SS8550	
0.4R	RES 0.27 OHM 1% 1/10W	R1	RES1206	Resistor	
2.2K	RES 0.27 OHM 1%	R2, R3	RES1206	Resistor	
	1/10W RES 0.27 OHM 1%	R4		Resistor	
1.2K	1/10W RES 0.27 OHM 1%		RES1206		
220K	1/10W	R5	RES1206	Resistor	
100K	RES 0.27 OHM 1% 1/10W	R6, R20	RES1206	Resistor	
30K	RES 0.27 OHM 1%	R7	RES1206	Resistor	
10K	1/10W RES 0.27 OHM 1% 1/10W	R8, R9, R10, R11, R12, R16, R17, R22, R23, R26	RES1206	Resistor	
1K	RES 0.27 OHM 1%	R13, R14, R18,	RES1206	Resistor	İ
OR .	1/10W RES 0.27 OHM 1%	R25, R28 R15	RES1206	Resistor	
	1/10W RES 0.27 OHM 1%				-
20K	1/10W RES 0.27 OHM 1%	R19	RES1206	Resistor	
100R	1/10W	R21	RES1206	Resistor	
51R	RES 0.27 OHM 1% 1/10W	R24	RES1206	Resistor	
47K	RES 0.27 OHM 1% 1/10W Switch,Slide,Sealed,	R27	RES1206	Resistor	
SPDT	SPDT,ON-NONE- ON	S1	SPDT	SS12D10G3	
SW1	Tactile,SPST Switch,Pushbutton,	S2		Pushbutton	
SW2	Tactile,SPST	S3	Pushbutton_Tactile	Pushbutton	
MT3608	High Efficiency 1.2MHz2A Step Up Converter	U1	MT3608	MT3608	
TP4056	Complete single cell Li-lon battery with a constant current / constant voltage linear charger	U2	TP4056	TP4056	
CH340G	USB Interface	U3	Ch340G	CH340G	
ATMEGA328P-AU	Integrated Circuit AVR ATmega Microcontroller IC 8- Bit 20MHz 32KB (16K x 16) FLASH 32-TQFP (7x7)	U4	ATMEGA328P-AU	ATMEGA328P-AU	
WS2812B	Intelligent control LED integrated light source	U5, U6	WS2812B-5050	WS2812B	
12M	40MHz 10pF ±10ppm SMD-4P Crystals 40MHz 10pF	Y1	crystal-2520	crystal-4P	