



Comment	Description	Designator	Footprint	LibRef	Quantity
	0.1µF ±10% 25V Ceramic Capacitor	C1, C2, C3, C4, C5,		GRM155R71E104KE14	
0.1uF(25V)	X7R 0402 (1005	C14, C15, C18, C19	CAPACITOR_0402	J	
	Metric)				
4.7uF(16V)	4.7µF ±20% 16V Ceramic Capacitor				
	X5R 0402 (1005	C6, C7, C8, C9	CAPACITOR_0402	0402YD475MAT2A	
	Metric)				
	10μF ±20% 10V				
10uF(10V)	Ceramic Capacitor X5R 0402 (1005	C10, C12	CAPACITOR_0402	CL05A106MP8NUB8	
	Metric)				
	2.2 μF ±10% 25V				
2.2uF(25V)	Ceramic Capacitor	C11, C13	CAPACITOR_0402	GRT155R61E225KE13D	
	X5R 0402 (1005 Metric)				
	Green 570nm LED				
LED GREEN	Indication - Discrete	D1, D2	0603_LED	XZVG53W-8	
	2.1V 0603 (1608	51,52	0000_EED	7.E. V G.S. S. V	
	Metric) Diode Array 1 Pair				
BAV70LT1G	Common Cathode				
	Standard 200mA (DC)	D3	SOT-23_3LEAD -	BAV70LT1G	
	Surface Mount TO- 236-3, SC-59, SOT-23-		BAV70		
	3				
1x2 Test Pad		J1	dual test pad 1.27	1x2Test Pad	
1x4HDR	Connector Header				
	Through Hole 4 position 0.100"	J2, J5	P2.541X4HDR	PEC04SAAN	
	(2.54mm)				
	USB - micro B USB 2.0				
MicroUSB	Receptacle Connector 5 Position	J3	Micro USB	629105150521	
	Connector 5 Position Surface Mount, Right	10	IMECLO D2R	0241051305ZT	
	Angle; Through Hole				
BAT	Connector Header				
	Surface Mount, Right Angle 2 position	J4	SM02B-SRSS- TB(LF)(SN)	SM02B-SRSS- TB(LF)(SN)	
	0.039" (1.00mm)		()()	()()	
Mounting Hole	2mm Mounting Hole	MH1, MH2, MH3	2mm mounting Hole	2mm mounting hole	
	P-Channel 460mA				
FDV304P	(Ta) 350mW (Ta) Surface Mount SOT-	Q1	SOT-23_3LEAD	FDV304P	
	23				
	Jumper 0.063W,				
	1/16W Chip Resistor 0402 (1005 Metric)				
OR	Anti-Sulfur,	R1, R11, R12, R13, R14	RESISTOR 0402	CR0402AJ/-000GAS	
	Automotive AEC-	,,			
	Q200, Moisture				
	Resistant Thick Film ±5% 0.1W, 1/10W				
	Chip Resistor 0402				
12K	(1005 Metric)	R2, R3, R4, R5	RESISTOR_0402	ERJ-2GEJ123X	
	Automotive AEC-				
	Q200 Thick Film ±5% 0.1W, 1/10W				
	Chip Resistor 0603				
330R	(1608 Metric)	R6. R9	RESISTOR_0402	CRGCQ0603J330R	
	Automotive AEC- Q200. Moisture				
	Resistant Thick Film				
	2.2 kOhms ±5% 0.1W,				
2.2K	1/10W Chip Resistor	D7 D0	DESISTOR 0402	EDI OCCIONA	
	0402 (1005 Metric) Automotive AEC-	R7, R8	RESISTOR_0402	ERJ-2GEJ222X	
	Q200 Thick Film				
	3.3 ±1% 0.1W, 1/10W				
	Chip Resistor 0402 (1005 Metric)			I	
3.3K(1%)	Automotive AEC-	R10	RESISTOR_0402	RK73H1ETTP3301F	
	Q200, Moisture			I	
	Resistant Thick Film 150 kOhms ±5% 0.1W.			—	
	1/10W Chip Resistor			I	
150K	0402 (1005 Metric)	R15	RESISTOR_0402	ERJ-2GEJ154X	
	Automotive AEC-			I	
	Q200 Thick Film 100 kOhms ±5% 0.1W.			-	
100K	1/10W Chip Resistor			I	
	0402 (1005 Metric)	R16, R19, R20	RESISTOR_0402	ERJ-2GEJ104X	
	Automotive AEC-			I	
	Q200 Thick Film 47 kOhms ±5% 0.1W,				
	1/10W Chip Resistor			l	
		1	RESISTOR_0402	ERJ-U02J473X	
47K	0402 (1005 Metric)	R17			l
47K	Anti-Sulfur,	R17			
47K		R17			
47K	Anti-Sulfur, Automotive AEC- O200 Thick Film 10 kOhms ±5% 0.1W,	R17			
47K	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor	R17			
47K 10K(0402 in)	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric)	R17 R18, R21, R22, R23	RESISTOR_0402	ERJ-U02J103X	
	Anti-Sulfur, Automotive AEC- 0200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC-			ERJ-U02J103X	
	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film			ERJ-U02J103X	
	Anti-Sulfur, Automotive AEC- 0200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- 0200 Thick Film Tactile Switch SPST-		RESISTOR_0402	ERJ-U02J103X	
10K(0402 in)	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film Tactile Switch SPST- NO Side Actuated		RESISTOR_0402	ERJ-U02J103X	
	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor odo2 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film Tactile Switch SPST- NO Side Actuated Through Hole, Right	R18, R21, R22, R23	RESISTOR_0402		
10K(0402 in)	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film Tactile Switch SPST- NO Side Actuated Through Hole, Right Angle	R18, R21, R22, R23	RESISTOR_0402		
10K(0402 in) Switch ESP8266 12E	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 k0hms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film Tactile Switch SPST- NO Side Actuated Through Hole, Right Angle Charger IC Lithium	R18, R21, R22, R23 SW1	RESISTOR_0402 right angle through hole switch ESP8266 12F	1301.9502 ESP8266 12E	
10K(0402 in) Switch ESP8266 12E	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 kOhms ±5% 0.11W, 17/0W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film Tactile Switch SPST- NO Side Actuated Through Hole, Right Angle Charger IC Lithium lon/Polymer 8-DFN	R18, R21, R22, R23	RESISTOR_0402 right angle through hole switch	1301.9502	
10K(0402 in) Switch ESP8266 12E MCP73831	Anti-Sulfur, Automotive AEC- Q200 Thick Film 10 k0hms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film Tactile Switch SPST- NO Side Actuated Through Hole, Right Angle Charger IC Lithium	R18, R21, R22, R23 SW1	RESISTOR_0402 right angle through hole switch ESP8266 12F 8VFDFN	1301.9502 ESP8266 12E MCP73831T-2DCI/MC	
10K(0402 in) Switch ESP8266 12E	Anti-suffur, Automotive AEC- 2200 Thick Film 10 KDhms: 95% 0.1W, 1/100V Chip Resistor 0402 (1005 Aberis) Anti-suffur, Automotive AEC- 2200 Thick Film Tacilie Switch SPST- WO Side Actuated Through Hole, Right Angle Charger IC Lithium ton/Polymer 8-DFN (2-3) LDO Voltage	R18, R21, R22, R23 SW1 U2 U3	RESISTOR_0402 right angle through hole switch ESP8266 12F	1301.9502 ESP8266 12E	