

Comment	Description	Designator	Footprint	LibRef	Quantity	Mfr. Part #	Manufacturer	LCSC Part #	Value
IC1	7250V(A) A12578(TT) Fixed 3.3V - 3.3V Positive 1.2W 89 Linear Voltage Regulators LDO ROHS	A1, A2	SOT89-150P350X150.3N	IC7	2	AMS1117-3.3	YONGYUTAI	C2904742	
	920W 42.3V 180F@144Hz 440V 350W 504V -616V 2.3A Plug-In Variators ROHS	B1	10D561K	10D561K	1	10D561K	Hongchi Elec	C113236	
UIU9.BY-10MH	10mH@144Hz 1.20 2 500mA 32V Plug-In Common Mode Filters ROHS	B2	UIU9Y10MH	UIU9.BY-10MH	1	UIU9.BY-10MH	FH (Guangdong Fenghua Advanced Tech)	C75192	
3296X-1-103	±10% 10kΩ Plug-In Variable Resistors/Potentiometers ROHS	B3	3296X122JLF	3296X-1-103	1	3296X-1-103	BOCHEN(Chengdu Guangheng Tech)	C118955	
ESP32-C3-WROOM-02-N4	WiFi Module (802.11) (Engineering Samples) SMD module, ESP32-C3, 4MB SPI Flash, PCB antenna, -40 C ~+85 C	B4	ESP32C3WROOM02N4	ESP32-C3-WROOM-02-N4	1	ESP32-C3-WROOM-02-N4	Espressif Systems	C2934560	
0.1uF	0.1uF ±10% -40T ~ +110T X2 275VAC Radial Leaded P=15mm Suppression Capacitors ROHS	C1	MPX-104K275VAC-C-D2	MPX-104K275VAC-C-D2	1	MPX-104K275VAC-C-D2	CORETONG	C3249976	0.1uF
220uF	40T ~ +85T 2000hrs@85T 220uF 10mm 16V 8mm 275uAh@120Hz ±20% SMD 0804 10mm Aluminum Electrolytic Capacitors - SMD ROHS	C2	CAPAE80X01050N	UUR1C221MNL1G5	1	UUR1C221MNL1G5	Nichicon	C445237	220uF
22uF	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 22uF, X5R, 15%, 20%, 10V	C3, C5	FP-GRM219-0-2-0_15-IPC_A	OMP-06035-056251-1	2	GRM219R61C226ME15L	Murata Electronics	C162295	22uF
10uF	6.3V 10uF X5R ±20% 0402 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C4, C6, C7	CL05A106M05NUNC	CL05A106M05NUNC	1	CL05A106M05NUNC	Samsung Electro-Mechanics	C15525	10uF
100nF	X7R 100nF 16V ±10% 0402 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C8	CAPC1050X5X2JMR05T13	OMP-2000-05439-1	1	CL05B104K05NUNC	Samsung Electro-Mechanics	C15525	100nF
1uF	X5R 10V 1uF ±10% 0402 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C9	FP-CL511-IPC_C	OMP-13271-001936-1	1	CL05A105KP5NUNC	Samsung Electro-Mechanics	C14445	1uF
12pF	50V 12pF C0G ±5% 0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT ROHS	C10, C11	CAPC1408X0K30LL10T20	OMP-2000-06098-1	1	CL10C120JB0NUNC	Samsung Electro-Mechanics	C38523	12pF
Display	Header, 4-Pin	D1	HDR1X4	Header 4	1				
56125-M2-0.5A	SMD Fuses ROHS	F1	CAPCA125X25N	56125-M2-0.5A	1	56125-M2-0.5A	SART(Nanjing Sait Tech)	CB45172	
5004	PC TEST POINT MINATURE YELLOW	F1, J2, J3, J4, J5	FP-5004-MFG	OMP-2000-05575-2	1	5004	Keystone	C2906762	
10118192-0001LF	Single Port 5 Contact Horizontal Right Angle Shielded Micro B USB 2.0 Connector	J6	AMPHENOL_10118192-0001LF	10118192-0001LF	1	10118192-0001LF	Amphenol ICC	C132564	
AC supply	13.5A 400V Green Straight pin 5.08mm 1 2 Plug-In,P=5.08mm Screw terminal ROHS	P1	PHOE-1729128-2_V	OMP-2000-05815-1	1	1729128	Phoenix Contact	C91153	
uv lamp	13.5A 400V Green Straight pin 5.08mm 1 2 Plug-In,P=5.08mm Screw terminal ROHS	P2	PHOE-1729128-2_V	OMP-2000-05815-1	1	1729128	Phoenix Contact	C91153	
Header 3	Header, 3-Pin	P3	HDR1X3	Header 3	1				
Hum/Tem sensor	SG7021 Header, 4-Pin	P4	HDR1X4	Header 4	1				
CH200C sensor	SG7021 Header, 4-Pin - Sensor Modules ROHS	P5	HDR1X4	Header 4	1				
CH20 sensor	SG7021 Header, 4-Pin - Sensor Modules ROHS	P6	HDR1X4	Header 4	1	ZE08-CH20	Zhengzhou Winsen Elec Tech	C141344	
CO sensor	MG17 Header, 4-Pin	P7	HDR1X4	Header 4	1				
O3 sensor	MG131 Header, 4-Pin	P8	HDR1X4	Header 4	1				
PMS5003	PMS5003 Sensor Modules ROHS	P9	HDR1X6	Header 6	1	PMS5003	Beijing Plantower	C91431	
5V FAN	Header, 2-Pin	P10	HDR1X2	Header 2	1				
Header 9	Header, 9-Pin	P11, P12	HDR1X9	Header 9	2				
2SD313	NPN Transistor, TO-220	Q1	TO304P498X1010X20.89-3P	2SD313	1	2SD313	Jiangsu Changsheng Electronics Technology Co., Ltd	C3031919	
0R	RES SMD 0 Ohm JUMPER 1/16W 0402	R1, R2, R4, R5, R6, R7, R10, R12, R13, R14, R16, R17	FP-RC0402-0_4-IPC_A	OMP-2002-07342-2	12	RC0402FR-070R	Yageo	C106231	0R
470Ω	100mW Thick Film Resistors 75V ±100ppm/7 ±1% -55T ~ +15T 470Ω 0402 Chip Resistor - Surface Mount ROHS	R3	RES1608X5X25L10T15	OMP-1659-00035-2	1	RC0603FR-07470RL	YAGEO	C114649	470Ω
10kΩ	50W 10kΩ Thick Film Resistors 62.5mW ±1% -55T ~ +15T ±100ppm/7 0402 Chip Resistor - Surface Mount ROHS	R8, R9, R11	RES1005X40X25L05T10	OMP-2002-07353-1	1	RC0402FR-0710KL	YAGEO	C60490	10kΩ
Switch	Surface Mount 50mA DPDT 3.2mm 12V 0.1mm 12V 2.55mm 50mA 10000 SMD/SMT Rectangular columnar -40T ~ +85T Black SMD Slide Switches ROHS	S1	SK3245SL1A	SK-3245S-L1-A	1	SK-3245S-L1-A	XWB Connectivity	C405951	
TL1105AF160Q	6mm 1.4mm Round Button 50mA Straight 6mm SPST 12V Plug-In,6x6mm Tactile Switches ROHS	S2, S3, S4	TL1105AF160Q	TL1105AF160Q	3	TL1105AF160Q	E-Switch	C273465	
HLK-10M05	5V 2A 90VAC ~265VAC 1.20W ~350V Isolated Regulated 10W AC-DC 80% Plug-In Power Modules ROHS	U1	FP-HLK-10M05-MFG-1	OMP-218581-000001-1	1	HLK-10M05	H8-LINK	C403745	
32.768kHz	40T ~ +85T 32.768kHz 12.5pF 10kΩ ±20ppm SMD3215-2P Crystals ROHS	V1	FP-AB507-MFG	OMP-0447-00001-4	1	AB507-32.768KHZ-T	Abracom LLC	C130253	32.768kHz