



Component	Description	Designator	Footprint	Library	Quantity
IC1	1.5A/0.1A 1A 1.25V@1A (TA) ±125°C@Tj Fixed 3.3V ±3.0V Positive 20V SOT-89 Linear Voltage Regulators (LDO) RCHS		AMS1_ AMS2	SOT89-150P350X150 3N	2
10D561K	1020V 42.3J 180µF@150V 400V 350W 504V -414V E-264 Plug-in Variators RCHS	B1		10D561K 10D561K	1
UJ09-BY-10MH	10mH@1kHz 1.2Q 2 500mA 50V Plug-in Common Mode Filter RCHS	B2		UJ09BY10MH UJ09-BY-10MH	1
3296X-1-103	±10% 10kQ Plug-in Variable Resistors/Potentiometers RCHS	B3		3296X122JLF 3296X-1-103	1
CP1102N-A02-02P204H	USB Interface IC USB to UART Bridge - CP104	B4		CP100P400K4000B0-03N-D CP1102N-A02-02P204H	1
ESP32-WROOM-32D	WiFi Module (802.11) SMD Module, ESP32 30W, 32MBits SPI flash, UART mode, PCB antenna	B5		ESP32-WROOM32D ESP32-WROOM-32D	1
0.1uF	0.1uF ±10% 40°C - +10°C X2 275VAC Radial Leaded P-15mm Suppression Capacitors RCHS	C1		MPX-104K275VAC-C-D2 MPX-104K275VAC-C-D2	1
220uF	40°C - +85°C 2000hrs@85°C 220uF 10mm 14V 8mm 215mA@120kHz 4.20% SMD 0804 10mm Aluminum Electrolytic Capacitors - SMD RCHS	C2		CAPAEER30X1050N UBR1C221MML105	1
22uF	Chip Multilayer Ceramic Capacitors for General Purpose 50V, 22uF, 50V, 15%, 20%, 16V	C3, C10		FP-050M15-VL-2-L-15-IPC-A CMP-0603S-050V15-1	2
10uF	6.3V 10uF XSR ±20% 0402 Multilayer Ceramic Capacitors MLC - SMD/SMT RCHS	C4, C11		CAPC1005X70N CL05A100M020NUNC	2
4.7uF	XSR 25V 4.7uF ±10% 0805 Multilayer Ceramic Capacitors MLC - SMD/SMT RCHS	C5		FP-CL21-IPC_A CMP-13271-00264-1	1
100nF	±78 100nF 16V 4.10% 0402 Multilayer Ceramic Capacitors MLC - SMD/SMT RCHS	C6, C7, C8, C9		CAPC1050X5X23M-D111 CMP-2000-05439-1	4
ESD0505-0CT10	Transient Voltage Suppression for ESD Protection	D1, D2, D3		ESD0505CT10 ESD0505-0CT10	3
0A125-02-0-5A 0004	0.5A 125V 0.02mm PC TEST POINT MINUTURE YELLOW	J1, J2, J3, J4, J5		CAPC0.12502N 0A125-02-0-5A	5
10118192-0001LF	Single Port 5 Contact Horizontal Right Angle Shielded Micro B USB 2.0 Connector	J6		AMPHENOL-1011819-2-0001LF 10118192-0001LF	1
AC Current supply pin Header 2	Header, 2-Pin	H1		HDRHX2 Header 2	1
uv lamp connect pin Header 2	Header, 2-Pin	H2		HDRHX2 Header 2	1
Header 3	Header, 3-Pin	H3		HDRHX3 Header 3	1
SI7021 Sensor Header	Header, 4-Pin	H4		HDRHX4 Header 4	1
SGP30 Sensor Header	Header, 4-Pin	H5		HDRHX4 Header 4	1
HT68-CHQ0 sensor Header	Sensor Modules RCHS	H6		HDRHX4 Header 4	1
HT3 sensor Header	Header, 4-Pin	H7		HDRHX4 Header 4	1
HC131 sensor Header	Header, 4-Pin	H8		HDRHX4 Header 4	1
5V FAN Header 2 Header 20 Header 19	Header, 2-Pin Header 20-Pin Header 19-Pin	H9, H10, H11		HDRHX2 HDRHX20 HDRHX19	3
PM55003	PM55003 Sensor Module RCHS	PM55003		PM55003 PM2.5 Sensor PM55003 PM2.5 Sensor	1
25C1384-1A	TD-92-3 Bipolar Transistors - BJT RCHS	Q1		25C1384-1A 25C1384-1A	1
538050-G	100mA 25V 300mW 200@100mA,TV 1.5A 1000Hz 500mV@800mA,B0H A NPN ±150°C@Tj T01-23 Bipolar Transistors - BJT RCHS	Q2, Q3		SOT95FP400X115-3N 538050-G	2
DR	865 SMD 0 OHM 0.800P 1/16W 0402	R1, R2, R6, R7, R8, R20, R21, R22		FP-R0402-0-L-4-IPC-A CMP-2002-07342-2	8
3.3kQ	100mW Thick Film Resistors 75V ±100ppm/°C ±1%, 50°C - +150°C 3.3kQ 0603 Chip Resistor - Surface Mount RCHS	R3		RESC1608X5X23ML10T15 CMP-1012-00567-2	1
10kQ	62.5mW 50V ±100ppm/°C ±1%, 50°C - +150°C 10kQ 0402 Chip Resistor - Surface Mount RCHS	R4, R5, R12, R13, R14, R19		RESC1005X40X25L6-D110 CMP-2002-07353-1	6
22.1kQ	62.5 SMD 0 OHM 75V 1/16W 0402	R9		FP-R0402-0-L-4-IPC-B CMP-2002-07515-2	1
47.5kQ	62.5mW Thick Film Resistors 50V ±100ppm/°C ±1%, 50°C - +150°C 2kQ 0402 Chip Resistor - Surface Mount RCHS	R10		RESC1005X40X25ML-D110 CMP-1011-00700-2	1
3kQ	62.5mW Thick Film Resistors 50V ±100ppm/°C ±1%, 50°C - +150°C 2kQ 0402 Chip Resistor - Surface Mount RCHS	R11		FP-RC_0402-MFG CMP-2002-07580-2	1
100Q	100Q 62.5mW 50V ±1%, 50°C - +150°C ±100ppm/°C 0402 Chip Resistor - Surface Mount RCHS	R15, R16, R17, R18		RESC1005X40X25ML-D110 CMP-2002-07344-1	4
SK-3240SL-1-A	Surface Mount 50mA SMDT 3.2mm 1.2V 9.1mm 12V 3.15mm 50mA 10000 SMD/Splcing Rectangular column - 40°C - +80°C Black SMD Slide Switches RCHS	S1		SK3240SL1A SK-3240SL-1-A	1
TL1105AF1600	6mm 1.6mm Round Button 50mA Straight 6mm SPST 12V Plug-in 6x6mm Tactile Switches RCHS	S2, S3		TL1105AF1600 TL1105AF1600	2
Display	Header, 4-Pin	SD1306		HDRHX4 Header 4	1
HLK-10M05	5V 2A PFM,AC-280VAC 1 120V -350V Isolated Regulated 10W AC-DC 50% Plug-in Power Modules RCHS	H1		FP-HLK-10M05-MFG CMP-218581-000001-1	1