

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	CAP CER 0.1uF 25V K78 0805	C1, C2, C3, C4, C5, C6, C11, C12	SHD-0805C	008050100K0000000000	9
PCB1100PCL1G5	CAP ALUMINUM POLY 100uF 20% ESR SMD	C8	0APAE110100X20H	PCB1100PCL1G5	1
0.10uF	CAP CER 0.10uF 10V K78 0805, CAP CER 0.10uF 10V K78 0805	C7, C9, C25, C31, C33, C37, C38, C46, C51	SHD-0805C	09PC0807C100K00010 020008070100K00010	9
0V0E33M0V0G5	Aluminum Organic Polymer Capacitor 25V 220uF	C13	0APAE110100X110H	0HP-001-00000-1	1
10uF	CAP CER 10uF 10V K78 0805	C14, C21, C22, C23, C37, C38, C39, C40, C31, C33, C34, C35, C36, C37, C41, C42, C43, C47, C48, C49	SHD-0805C	09PC0807C100K00010	21
10000uF	CAP CER 10000uF 50V WV 1206	C15, C38, C39	SHD-1206C	09PC0807C100K00010	3
0.1uF	CAP CER 0.1uF 10V K78 0805	C36, C37	SHD-0805C	020008070100K00010	2
160VPG47H	PANASONIC ELECTRONIC COMPONENTS 160VPG47H Electrolytic Capacitor, 160V, 47uF, 5% RPS Series, SMD Can - SMD, 50°C	C24, C30, C32, C34, C38, C44, C50	0APAE110100X20H	160VPG47H	7
0.1uF	CAP CER 0.1uF 25V K78 1206	C26, C32, C34, C36, C40, C42, C45	SHD-1206C	020008070100K00010	7
0V0E33M0V0G5	TVS DIODE 15V 24-4W DO-214AA	D1, D2	000M443002N	0V0E33M0V0G5	2
0V0E33M0V0G5	TVS DIODE 15V 24-4W DO-214AA	D3	000M443002N	0V0E33M0V0G5	1
SECS4-E3/8AT	Resistor Chip, Schweby, 1/8 Watt, 1 Pin, 40W V5000, Silver, DO- 214AA	D5, D6, D7, D8, D9, D10, D11, D12	SECS4-E3/8AT	SECS4-E3/8AT	8
3568	FUSE HOLDER MINI AUTO PC	F1, F2	Fuse Holder 30A 500V 1 Circuit Blade Through Hole	3568	2
N-MOS Enhancement Mode	MOSET N-CH 60V 200MA SOT23-3	QET1	50T95P400110-3N	N-MOS Enhancement Mode	1
0V0E33M0V0G5	2nd Chip Power Metal Component Low 20% 2-Pin SMD T/R	L1	00M443002N	0V0E33M0V0G5	1
0V0E33M0V0G5	Fixed Inductor SMD 20% Low Profile	L2	00V0862040N	0V0E33M0V0G5	1
74066150	FIXED IND 150uH 1.2A 50 MOHMS SMD	L3	00V010010030N	74066150	1
74471115	SMD-0402 Power Inductor WE-HLS-1 - 15.0 uH	L4, L5, L6, L7	WE-POL	0HP-022-00006-1	7
LED RED-0603	Red 635nm LED Indicator - Standard 2V 0603 (1608 Metric)	LED1, LED2, LED3, LED4	LED-0603-RED	LED-RED-0603	4
43045-0400	Main connector dual row 8P 3 mm Pin Row No. 43045-0400 0400, 0400	P1, P2, P3, P7, P10, P12, P13	43045-0400	43045-0400	7
43045-0200	CONN HEADER 8-PIN 2POS	P4, P6, P8, P9, P11, P14, P16, P23, P24, P25, P7	43045-0200	43045-0200	11
43045-0800	CONN HEADER 8-PIN 8POS 2MM	P5, P14	43045-0800	43045-0800	2
Header 2	Header, 2-Pin	P17, P18, P19, P20, P21, P22	Pin Header 1x2 TH Pitch 2.54mm	Header 2	4
0.0	RES SMD 0.0 OHM JUMPER 1.00W 0805	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35	SHD-0805-RES	00U-60EY000V	26
10k	RES SMD 10K OHM 1% 1.00W 0805, RES SMD 10K OHM 1% 1.00W 0805, RES SMD 10K OHM 1% 1.00W 0805	R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35	SHD-0805-RES	00U-60EY000V, 00U- 60EY000V, 00U- 60EY000V	10
30k	RES SMD 30K OHM 1% 1.00W 0805	R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35	SHD-0805-RES	00U-60EY000V	4
0.18	RES SMD 0.18 OHM 1% 1.00W 1206	R15	SHD-1206-RES	00U-60EY000V	1
1005	RES SMD 100 OHM 5% 1.00W 1206	R16, R19, R23	SHD-1206-RES	00U-60EY000V	3
499	RES SMD 499 OHM 1% 1.00W 1206	R17, R24	SHD-1206-RES	00U-60EY000V	2
1.8k	RES SMD 1.8K OHM 1% 1.00W 0805	R30	SHD-0805-RES	00U-60EY000V	1
1k	RES SMD 1K OHM 1% 1.00W 0805	R31	SHD-0805-RES	00U-60EY000V	1
62	RES SMD 62 OHM 1% 1.00W 0805	R32	SHD-0805-RES	00U-60EY000V	1
150	RES SMD 150 OHM 1% 1.00W 0805	R30	SHD-0805-RES	00U-60EY000V	1
3.16k	RES SMD 3.16K OHM 1% 1.00W 0805	R32	SHD-0805-RES	00U-60EY000V	1
470k	RES SMD 470K OHM 1% 1.00W 0805	R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55	SHD-0805-RES	00U-60EY000V	7
352180UT	Res Thick Film 2512 1 Ohm 5% 3W ±200ppm C 0-Pad SMD	R56, R57, R58, R59, R60, R61	SHD-2512	352180UT	6
352180UT	RES SMD 1 OHM 5% 3W 2512	R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66	352180UT	352180UT	10
NCV110H472000A	NTC THERMISTOR 4.7K OHM 5% 0805	TH1	SHD-0805-RES	NCV110H472000A	1
TP	SMD TEST POINT	TP1, TP2, TP3, TP4	Test Point	TP	4
AD51218PWR	ADC, Delta Sigma, 24 Bit, 1 Func, 4 Channel, Serial Access, PDSO28	U1	TSOP40P9400120-10N	AD51218PWR	1
HMAX232DEW	IC DRIVERS MULTI-CHANNEL RS-485	U2	SOIC16P10000125-10N	HMAX232DEW	1
TC46416PWR	Resistor 60 Pin, 16- Bit, 50 uV, CMOS, PDSO24	U3	TSOP40P9400120-24N	TC46416PWR	1
RASPBERRY PI 4 MODEL B	SINGLE BOARD COMPUTER	U4	Raspberry Pi Model B+	RASPBERRY PI 4 MODEL B	1
ES21216C2-GR43-TR	LED Driver Buck 1-Ch From 1.5V to 1.5A 1-Pin SOP EP T/R	U5, U7, U8, U9, U10	ES21216C2-GR43-TR	ES21216C2-GR43-TR	7
TP5400D00A0P	Switching Regulator, Voltage-mode, 5A, 1000kHz Switching Freq Max, PDSO8	U6	TP5400D00A0Q1	TP5400D00A0P	1
0V0E33M0V0G5	IC CURRENT MONITOR 1% SOT23-6	U11, U12, U13	TP-0000000A-PC-8	0HP-0704-00041-3	3