

Quantity	Comment	Description	Designator
4	0.01uF	SMD_CHIP_CAP_CER_0603_TO_1206	C1, C3, C5, C7
4	0.22uF	SMD_CHIP_CAP_CER_0603_TO_1206	C2, C4, C6, C38
13	0.1uF	SMD_CHIP_CAP_CER_0603_TO_1206	C8, C9, C10, C17, C19, C20, C21, C24, C25, C27, C28, C29, C30
1	68nF	820p 1KV Y5P	C11
1	68nF	SMD_CHIP_CAP_CER_0603_TO_1206	C12
1	390nF	820p 1KV Y5P	C13
1	180nF	820p 1KV Y5P	C14
1	390nF	SMD_CHIP_CAP_CER_0603_TO_1206	C15
1	180nF	SMD_CHIP_CAP_CER_0603_TO_1206	C16
2	0.1uF	SMD_CHIP_CAP_CER_1206	C18, C26
2	0.0603A150FXACW1BC		C22, C23
1	470uF/10V Tant.	T495X477K010ATE100	C31
1	10u	35V	C33
1	1u	35V	C34
2	470uF 25V	25V	C35, C36
1	0.022uF	SMD_CHIP_CAP_CER_0603_TO_1206	C36
1	470uF/25V	25V	C37
1	B550C-13-F	Schottky Barrier Rectifier_x000D_50 V, 5 A, -55 to 150 degC, 2-Pin SMD, RoHS, Tape and Reel	D1
2	1N5819	40V 1A	D3, D4
1	DS3231 16-SOIC	SOIC, 16-Leads, Body 10.5x7.5mm (max), Pitch 1.27mm, IPC Medium Density	DS1
1	RTD2-Wire-Select		H1
2	H-1x2		H2, H14
8	H-1x3		H3, H4, H5, H7, H8, H9, H10, H15
2	H-1x6		H6, H12
2	H-1x4		H11, H13
2	MKDS 1.5 2-5.08	PCB terminal block, nominal current: 17.5 A, nom. voltage: 400 V, pitch: 5.08 mm	H16, H17
1	LMV321RLY	Integrated Circuit	I1
1	D Connector 9	Receptacle Assembly, 9 Position, Right Angle	J1
2	BLM31PG601SN1L	Chip Ferrite Bead Inductor	L1, L2
1	FB 1206 600 ohms 100MKZ 600R 1.5A	Chip Ferrite Bead Inductor	L3
1	33uH 3.2A 1280	Shielded SMD Power Inductor, 33 uH, +/- 20%, -40 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	L4
1	1ed	5mm	LD1
3	MH Pin - 5 SPad - 3.3drill	MH Pin - 5 SPad - 3.3drill	MH1, MH2, MH3
3	ILdesmont 2Pins	Header, 2-Pin	P1, P4, P7
1	Esapin16mm	Header, 2-Pin	P2
1	ZMPT101B MODULE	Header, 4-Pin	P3
1	RTD PT100	Header, 4-Pin	P5
1	RTD Output	Header, 2-Pin	P6
1	Header 6	Header, 6-Pin	P8
1	CR2032 Holder	CR2032 Holder	PB1
2	2N3904	NPN General Purpose Amplifier	Q1, Q2
4	220 ohm	SMD_CHIP_RESISTOR_0603_TO_1206	R1, R3, R4, R5
2	10K	SMD_CHIP_RESISTOR_0603_TO_1206	R2, R27
1	1K	SMD_CHIP_RESISTOR_1206	R6
2	220 ohm	SMD_CHIP_RESISTOR_1206	R7, R33
4	25K	SMD_CHIP_RESISTOR_0603_TO_1206	R8, R10, R12, R13
1	25K	SMD_CHIP_RESISTOR_1206	R9
1	2.5K	SMD_CHIP_RESISTOR_0603_TO_1206	R11
9	1K	SMD_CHIP_RESISTOR_0603_TO_1206	R14, R22, R24, R28, R29, R31, R32, R36, R37
2	100K	SMD_CHIP_RESISTOR_0603_TO_1206	R15, R16
1	17.4K	SMD_CHIP_RESISTOR_0603_TO_1206	R17
1	107K	SMD_CHIP_RESISTOR_0603_TO_1206	R18
1	49.9K	SMD_CHIP_RESISTOR_0603_TO_1206	R19
1	3.09K	SMD_CHIP_RESISTOR_0603_TO_1206	R20
1	20K	SMD_CHIP_RESISTOR_1206	R21
1	100 Ohm	SMD_CHIP_RESISTOR_0603_TO_1206	R23
2	2.2K	SMD_CHIP_RESISTOR_0603_TO_1206	R25, R26
1	2K	SMD_CHIP_RESISTOR_0603_TO_1206	R30
2	1 Ohm	0.25W 5% 250V	R34, R35
2	RAS	AC-120V 15A DC-14V 20A 20V 15A 0.36W	RA1, RA2
1	RPI GPIO Connector	GPIO Header for Raspberry Pi A+/B+/Pi Z/	RP1
1	ADS1115IDGST	16-Bit ADC with Integrated Multiplexer, PGA, Comparator, Oscillator, and Reference, -40 to 125 degC, 10-pin SOP (DGSI0), Green (RoHS & no Sb/Br)	U1
1	LMV324IDR	Quad Low-Voltage Rail-to-Rail Output Operational Amplifier, 2.7 to 5.5 V, -40 to 125 degC, 14-Pin SOIC (D), Green (RoHS & no Sb/Br), Tape and Reel	U2
1	LM385Z-2.5/NOPB	Micropower Voltage Reference Diode, 3-pin TO-92, Pb-Free	U3
1	ATmega328P-PU	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 28-pin PDIP, Industrial Grade (-40°C to 85°C)	U4
1	MAX3232CSE+T	Low-Power, True RS-232 Transceivers Using Four 0.1 uF External Capacitor, up to 1 Mbps, 3.0 to 5.5 V, 0 to 70 degC, 16-Pin SOIC (S16+1), RoHS, Tape and Reel	U5
1	7805		U6
1	LM2596S-5.0/NOPB	SIMPLE SWITCHER® Power Converter 150 kHz 3A Step-Down Voltage Regulator, 5-pin TO-263, Pb-Free	U7
1	CRYSTAL_PTH_16MHz	CRYSTAL_PTH_16MHz	Y1