

Comment	Description	Designator	Footprint	LibRef	Quantity
40mm	Polarized Capacitor (Radial)	C1, C2, C3, C121, C122, C123	450V_40mm_10mm	Cap Pol1	6
100nF	CAP CER 10000PF 250V X7T 0805	C4, C110, C111, C113, C114, C115	SMD-0805C	GC321AD72E103KX01D	6
100nF, 630V	WCAP-FTBE THT Film Capacitors, 100nF, 630VDC	C5, C6	L18_W6_H12_P15	890303425004CS	2
Cap_0805	Capacitor	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C24, C25, C26, C27, C28, C29, C30, C31, C39, C40, C41, C42, C43, C44, C45, C46, C67, C68, C73, C81, C82, C83, C84, C86, C87, C88, C103, C117	SMD-0805C	Cap	43
EEF1P1E220AR	Aluminum Electrolytic Capacitor, 22 uF, +/- 20%, 25 V, 2-Pin SMD (Size Code C), -55 to 105 degC, RoHS, Tape and Reel	C22, C89	PNSC-FP-V-C_V	CMP-2000-06213-1	2
Cap_1206	Capacitor	C23, C32, C33, C35, C37, C38, C47, C48, C50, C52, C53, C70, C72, C74, C75, C76, C77, C79, C80, C85, C90, C91, C92, C104	SMD-1206C	Cap	24
33uF, 25V	WCAP-ASLL SMT Aluminum Electrolytic Capacitors, D6.3mm x L5.5mm, 33uF, +/- 20%, 25VDC	C34, C36, C49, C51, C112, C118	WCAP-ASLL_6.3x5.5	865060443003	6
VY1472M61Y5UC63V0	Capacitor	C54, C55, C56, C64, C65, C66, C105, C106, C119, C120	VY1472M61Y5UC63V0	VY1472M61Y5UC63V0	10
1uF, 275V	WCAP-FTX2 THT Film Capacitors, 1uF, 275VAC	C57, C58, C59, C60, C61, C62, C63	L26_W11_H20_P22.5_CS	890324026027CS	7
47uF, 25V	WCAP-ASLL SMT Aluminum Electrolytic Capacitors, D6.3mm x L5.5mm, 47uF, +/- 20%, 25VDC	C69, C71, C78	WCAP-ASLL_6.3x5.5	865060443004	3
F	CAP CER 0.33UF 50V X7R 0805	C93, C97	SMD-0805C	GCM219R71H334KA55D	2
0.10μF	CAP CER 0.1UF 50V X7R 0805	C94, C98, C107, C108	SMD-0805C	GCD21BR71H104KA01L	4

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10μF	CAP CER 10UF 25V X5R 1206	C95, C99	SMD-1206C	GRT31CR61E106ME01L	2
47uF, 25V	WCAP-ASLU Aluminium Electrolytic Capacitors, D6.3mm x L7.7mm, 47uF, +/- 20%, 25VDC	C96, C100	WCAP-ASLU_6.3x7.7	865090445006	2
2.2μF	CAP CER 2.2UF 50V X7R 1206	C101	SMD-1206C	GCJ31CR71H225KA12L	1
22uF, 35V	WCAP-ASLU Aluminium Electrolytic Capacitors, D6.3mm x L5.5mm, 22uF, +/- 20%, 35VDC	C102	WCAP-ASLU_6.3x5.5	865090543005	1
10uF	CAP CER 10000PF 250V X7T 0805	C109, C116	SMD-0805C	GC321AD72E103KX01D	2
Diode 10TQ035	Schottky Rectifier	D1, D2, D5	INF-PG-TO247-2-MOD	Diode 10TQ035	3
BAS16W	Silicon Switching Diode, SOT323, Reel, Green	D3, D4, D6, D7	SODFL250X110-2N	BAS16_SOD	4
BAS16W	Silicon Switching Diode, SOT323, Reel, Green	D8, D9, D10, D11, D20, D23, D29, D35	SOT95P278X110-3N	BAS16	8
SS14	Schottky Rectifier, 1.1 W, -65 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	D12, D13, D14, D15, D17, D18, D30, D31, D32	DIOM4226X22N	SS14	9
Bridge1	Full Wave Diode Bridge	D16, D19	PB4010	Bridge1	2
BAT54	Silicon Switching Diode, SOT323, Reel, Green	D21, D22, D24, D25, D26, D27, D28, D36, D37, D38	SOT95P278X110-3N	BAT54	10
Surge_arrestor		D39	A81-A600X	Surge_arrestor	1
Header 3	Header, 3-Pin	J1	Barrier_Strip_3	Header 3	1
Socket	Earth	J2	Spade_PCB_Terminal_Single	Socket	1
Socket	Socket	J3, J4, J5, J6	Mounting_hole_3mm	Socket	4
Relay	SPDT Relay	K1	Relay_T9GS5L14-5	Relay	1
Relay	SPDT Relay	K2	Relay_OMRON_5V	Relay	1
Transformer_Inductor		L1, L2	PFC_Toroid_MPP	Transformer_Inductor	2
5.6uH	SMD-Shielded Power Inductor WE-PD, L = 4.70 μH	L3	WE-PD-L	CMP-0227-00698-1	1
150080GS75000	SMD mono-color Chip LED, WL-SMCW, Green	LED1, LED2, LED3, LED4, LED6	0805_A	150080GS75000	5

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150120VS75000	SMD mono-color Chip LED, WL-SMCW, Bright Green	LED5, LED7, LED8	1206_A	150120VS75000	3
Header 6X2H	Header, 6-Pin, Dual row, Right Angle	P1, P2, P3, P4	Stackable-20mm	Header 6X2H	4
61202021621	Male Box Header WR-BHD, THT, Vertical, pitch 2.54 mm, 20 pins	P5	61202021621	61202021621	1
Header 2	Header, 2-Pin	P6, P9	Spade_PCB_Terminal	Header 2	2
MHDR1X3	Header, 3-Pin	P7	MHDR1X3	MHDR1X3	1
MHDR1X2	Header, 2-Pin	P8	61900211121	MHDR1X2	1
NTC Connector	WR-WTB THT Male Vertical Locking Header, pitch 2.54mm, 2p	P10	61900211121	61900211121	1
Header 2	Header, 2-Pin	P11	Barrier_Strip_2	Header 2	1
SPW47N60C3	N-Channel Power MOSFET	Q1, Q2, Q3, Q4	INF-PG-TO247-3-44	NMOS-2	4
ZXMN10A07FTA	N-Channel Enhancement Mode MOSFET, 100 V, -55 to 150 degC, 3-Pin SOT23, RoHS, Tape and Reel	Q5, Q13, Q14	DIOD-SOT23-3_D_V	CMP-2000-07433-1	3
BSS84P	P-Channel SIPMOS Small-Signal-Transistor, -60 V VDS, -0.17 A ID, -55 to 150 degC, PG-SOT23, Reel, Green	Q6	SOT95P278X110-3N	CMP-1099-00028-1	1
FMMT718TA	PNP Silicon Low Saturation Transistor, 20 V, -55 to 150 degC, 3-Pin SOT23, RoHS, Tape and Reel	Q7, Q15	SOT95P278X110-3N	CMP-2000-06277-1	2
MMBT2222A-7-F	NPN Small Signal Transistor, 40 V, -55 to 150 degC, 3-Pin SOT23, RoHS, Tape and Reel	Q10, Q12	DIOD-SOT23-3_V	CMP-1693-00003-3	2
4.7	RES SMD 4.7 OHM 1% 1/3W 0805	R1, R2, R3, R4, R10, R11, R12, R13	SMD-0805-RES	ERJ-6BQF4R7V	8
10k	RES SMD 10K OHM 1% 1/8W 0805	R5, R6, R14, R15	SMD-0805-RES	ERJ-6ENF1002V	4
0.05Ohm	WRIS-KSKE Thick Film Resistors, size 1206, 0.05Ohm, +/-1%, 0.5W	R7, R8, R9, R180, R181, R198, R199	WRIS-KSKE_1206_H=0.6mm	560050332001	7

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Res_0805	Resistor	R16, R17, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R35, R36, R37, R38, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R111, R112, R113, R114, R115, R116, R117, R124, R126, R127, R128, R129, R130, R131, R132, R134, R135, R136, R138, R139, R140, R141, R142, R143, R144, R147, R148, R149, R150, R151, R152, R153, R161, R189	WRIS- KSKE_0805_H=0.6mm	Res1	141
Res_1206	Resistor	R18, R34, R39, R66, R67, R68, R93, R94, R95, R109, R110, R118, R119, R120, R121, R122, R123, R156, R157, R158, R159, R160, R210, R213, R215, R216, R217, R220, R241, R243, R245, R256, R257	WRIS- KSKE_1206_H=0.6mm	Res1	33
Res_2512	Resistor	R96, R97, R98, R99, R100, R101, R102, R103, R105, R106, R179, R214	WRIS- KSKE_2512_H=0.6mm	Res3	12
Res Varistor	Varistor (Voltage-Sensitive Resistor)	R104, R107, R108	MOV-14D391K	Res Varistor	3

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3314J-1-502E	4 mm Square Trimpot(R) Trimming Potentiometer, 5 KOhm, +/- 20%, 0.25 W, -55 to 125 degC, 3- Pin SMD, RoHS, Tape and Reel	R125, R175	BOUR-3314J-1_V	CMP-2000-05590-1	2
10k	WRIS-KSKE Thick Film Resistors, size 0805, 0.1Ohm, +/-1%, 0.33W	R133, R145, R146, R154, R197	WRIS- KSKE_0805_H=0.6mm	560050320001	5
0.5Ohm	WRIS-KSKE Thick Film Resistors, size 2512, 0.5Ohm, +/-1%, 1W	R137, R155	WRIS- KSKE_2512_H=0.6mm	560050363011	2
F	RES SMD 6.8 OHM 1% 1/3W 0805	R162, R163, R165, R166, R168, R169, R170, R171	SMD-0805-RES	ERJ-6BQF6R8V	8
PP	RES SMD 6.8 OHM 1% 1/3W 0805	R164, R167	SMD-0805-RES	ERJ-6BQF6R8V	2
3.3Ohm	WRIS-KSKE Thick Film Resistors, size 1206, 3.3Ohm, +/-1%, 0.5W	R172, R173, R174, R177, R178, R240, R242	WRIS- KSKE_1206_H=0.6mm	560050332011	7
10hm	WRIS-KSKE Thick Film Resistors, size 0805, 10hm, +/-1%, 0.33W	R182, R183, R184, R185, R186, R187, R188, R191, R193, R200, R201, R202, R203, R205, R207, R208, R209, R228, R230, R231, R232	WRIS- KSKE_0805_H=0.6mm	560050320011	21
Res Thermal	Thermistor	RT1, RT2	NTC-5D-7	Res Thermal	2
Common Mode Choke	Transformer (Equivalent Circuit Model)	T1, T2, T3	Choke_40mm	Trans Eq	3
UCC28070APW	Two-Phase Interleaved CCM PFC Controller with Extended Frequency Range (10 kHz to 300 kHz), 21 V, 20 mA Startup Current, -40 to 125 degC, 20-pin TSSOP (PW), Green (RoHS & no Sb/Br)	U1	TSOP65P640X120_HS- 21N	CMP-0333-00336-2	1
UCC27524A-Q1		U2, U13	SOIC127P570X175_HS- 9N	UCC27524A	2

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MCP602-I/SN	2.7V to 6.0V Single Supply CMOS Operational Amplifier, 8-Pin SOIC, Industrial Temperature	U3, U4, U6, U7, U24	SOIC127P570X175_HS-9N - No Thermal	MCP602_2	5
ACS758	Current Sensor 50A 1 Channel Hall Effect, Open Loop Unidirectional 5-CB Formed Leads, PFF	U5, U8	XDCR_ACS758	ACS758	2
TPS54302DDCR	Imported	U9	SOT95P278X110-6N	TPS54302DDCR	1
TPS60403DBVT	-1.8 to -5.25 V, Inverting Charge Pump Regulator, 60 mA, 1.8 to 5.25 V Input with 2-Cell Alkaline / Nixx Input, -40 to 85 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	U10	DBV0005A_M	CMP-0391-00003-2	1
LM339DR2G	Single Supply Quad Comparators, 0 to 70 degC, 14-Pin SOIC, Pb-Free, Tape and Reel	U11	SOIC127P600X265-14N	LM339	1
TL431ACDBZR	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	U12	DBZ0003A_M	CMP-0366-01028-2	1
LM317AEMP/NO PB	3-Terminal Adjustable Regulator, 4-pin SOT-223, Pb-Free	U14	DCY0004A_L	CMP-0062-01710-3	1
FOD817ASD	Phototransistor Optocoupler, 4 us Rise, 3 us Fall, 5000 Vrms, -55 to 110 degC, 4-Pin MDIP, RoHS, Tape and Reel	U15, U16, U18, U19, U20, U21, U22	FAIR-MDIP-4_V	CMP-2000-06279-1	7
LM393DT	Low-Power, Dual-Voltage Comparator, 2 to 36 V, 0 to 70 degC, 8-Pin SOIC (SO), RoHS, Tape and Reel	U17	SOIC127P570X175_HS-9N - No Thermal	CMP-2000-06550-1	1
AMC1211-Q1		U23	SOIC127P570X175_HS-9N	AMC1211-Q1	1
LD1117	Voltage Regulator	VR1	SOT230P700X180-4N	LD117-Adj	1
LD1117-3.3	Voltage Regulator	VR2	SOT230P700X180-4N	LD117-3.3	1

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696103201002	WR-FSH Fuse Holder Blocks Fuse Holder Blocks Clip Cover for PCB - THR Version	XF1, XF2	696103201002	CMP-1502-00239-1	2