

BOM of 3kW Totem-pole PFC_Mother board				
Qty	Ref-Des	Part Number	Description	Manufacture
2	L3-4	744 804 2001	Inductor, CM Choke	Würth
1	L2	PI160694V1/MC-35-51	Power Inductor,400uH	POCO/Magtec
1	U2	ACPL-C790	GENERIC 8 PIN DUAL INLINE PACKAGE (DIP) .300 SPACING	Avago
1	B1	BLM21AG471SN1D	Bead, Ferrite, 100mA, 0805	Murata Electronics
2	C27,C99	General	Capacitor, Ceramic, 50V, 0.1uF, 0603, X7R, 20%	Std
1	C3	General	Capacitor, Ceramic, 50V, 0.22uF, 0603, X7R, 20%	Std
2	C56-57	General	Capacitor, Ceramic, 50V, 100pF, 0603, X7R, 20%	Std
2	C54,C94	General	Capacitor, Ceramic, 50V, 1nF, 0603, X7R, 20%	Std
19	C28-29,C21-22,C25-26,C30-32,C36,C47,C51-53,C95,C49,C62,C97, C106	General	Capacitor, Ceramic, 50V, 1uF, 0603, X7R, 20%	Std
4	C5,C24,C50,C112	General	Capacitor, Ceramic, 50V, 2.2uF, 0603, X7R, 20%	Std
1	C48	General	Capacitor, Ceramic, 50V, 22nF, 0603, X7R, 20%	Std
4	C9,C11-13	General	Capacitor, Ceramic, 630V, 0.1uF, 1210, X5R, 20%	Std
6	C6-7,C14-16,C20	ECKNVS102MB	Capacitor, Ceramic Disc, 250WV, 1000pF, Y5U	Vishay
4	C17-19,C23	EKMR451VSN471MR45S	Capacitor, 450V,105C 20%	United Chemi-Con
1	C4	UVR1E470MDD1TD	Capacitor, Electrolytic,47uF, 25 VDC	Samxon
1	L1	CM9-6-3,220uH, Minimum current 1A	Inductor, CM Choke Filter	
1	J7	CONN_AC_HP-TYPE,703W-00/54	Connector, AC Board mount, 9mm	Qualtek
2	D17,D21	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	Panjit
1	D5	BAV99	DIODE SW DUAL 75V 350MW SOT23	Panjit
2	D3-4	General	Resistor, Chip, 0 ohm	Std
2	F1	0315025.HXP	Fuseholder, 1/4" fuses, board mount	Littelfuse Inc
1	D1	GBO25-12N01	RECT BRIDGE 1PH 1200V SIP	HY
1	U34	H1209S	Power Module	MORNSUN(金升阳)
2	U6,U10	H1205	Power Module	MORNSUN(金升阳)
1	J10	3620-2-32-15-00-00-08-0	Multi-Purpose Terminal Pin	Mill-Max
1	J1	PEC20SBAN	Header, Male 20-pin, 100mil spacing,	Sullins Connector Solutions
2	J2,J9	PEC03DBAN	Header, Male 2x3-pin, 100mil spacing	Sullins Connector Solutions
3	J3-4,J11	70543-0001	Header, Shrouded 2-pin, 100mil spacing	Molex
2	HS1-2	FL37-009	TO247 Heatsinker 40mm Height	Shenzhen Fengling Radiator Manufacturer (风铃)
4	MH3-6	HOLE_4.0		
1	U5	IXDN604SIA	IC, 4A Dual Output Driver	IXYS
2	J6,J8	NA	Soldering Hole	
1	U9	LM293AD,LM293AD	IC, Dual Differential Comparators, 2-36 Vin	TI
2	U4,U8	LM7805C	5 VOLT, VOLTAGE REGULATOR	TI
1	U3	LP2985A-3.3DBV	IC, 150 mA LOW-NOISE LDO REGULATOR WITH SHUTDOWN, VV	TI
4	C1-2,C10,C63	890324026027CS	Capacitor, X2 Cap 275Vac luF	Würth Electronics Inc.
1	S2	855AP-1A-C	Relay 30A	Songchuan
1	R5	General	Resistor, Chip, 0 ohm, 0603, 1/10-W, 1%	Std
3	R24,R27,R150	General	Resistor, Chip, 10 ohm, 0603, 1/10-W, 1%	Std
5	R1-2 R10 R23 R25	General	Resistor, Chip, 10k ohm, 0603, 1/10-W, 1%	Std
1	R21	General	Resistor, Chip, 110k ohm, 0603, 1/10-W, 1%	Std
5	R22,R63-64,R67-68	General	Resistor, Chip, 1k ohm, 0603, 1/10-W, 1%	Std
1	R18	General	Resistor, Chip, 220 ohm, 0603,1/10-W, 1%	Std
2	R65-66	General	Resistor, Chip, 8.2k ohm, 0603, 1/10-W, 1%	Std
1	R4	General	Resistor, Metal Film, 1M ohm, 1206, 1/4 watt, 1%	Std
2	R26,R39	General	Resistor, Chip, 10 ohm, 0603, 1/8W, 1%	Std
2	R32,R38	General	Resistor, Chip, 10k ohm, 0603, 1/8W, 1%	Std
1	R34	General	Resistor, Chip, 0 ohm, 0805, 1/8W, 1%	Std
2	R124,R173	General	Resistor, Chip, 10 ohm, 0805, 1/8W, 1%	Std
2	R114,R129	General	Resistor, Chip, 2.2 ohm, 0805, 1/8W, 1%	Std
1	R127	General	Resistor, Chip, 470 ohm, 0805, 1/8W, 1%	Std
1	R125	General	Resistor, Chip, 620 ohm, 0805, 1/8W, 1%	Std
2	R191,R197	General	Resistor, Metal Film, 330k ohm, 1206, 1/4 watt, 1%	Std
1	R190	General	Resistor, Metal Film, 340k ohm, 1206, 1/4 watt, 1%	Std
6	R11-15,R17	General	Resistor, Metal Film, 360k ohm, 1206, 1/4 watt, 1%	Std
3	R8-9,R20	General	Resistor, Metal Film, 510k ohm, 1206, 1/4 watt, 1%	Std
1	R3	General	Resistor, Metal Film, 1M ohm, 1206, 1/4 watt, 5%	Std
2	R16,R19	General	Resistor, Chip, 2M ohm, 2512, 1W, 1%	Std
1	U30	SI8261BAC	Opto Isolate Driver	Avago
2	RT1-2	NTC 5D-20	Thermistor, NTC, 5 ohms, 7A	
1	U1	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	TI
1	U7	TLC272CD	IC, Dual Op Amp, Single Supply 5V	TI
2	Q5-6	IXFH80N65X2	Transistor, Nch Insulated Gate Mosfet, 80A, 650V	IXYS
1	Q10	TR-SI2301DS,SI2309DS	MOSFET, P-ch, -60V, -1.25A, 550 milliohms	NXP