

Qty	Reference	Value	Description	Size	Part Number	MFR	Area
3	D9 D18 D21	1SS355	Diode, Switching, 90V, 225 mA Ifm, High speed	SOD-323	1SS355	Rohm	15500
2	C10 C30	0.1uF	Capacitor, Ceramic, 25V, X7R	603	Std	Std	5650
1	C28	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	603	Std	Std	5650
1	C15	100pF	Capacitor, Ceramic, 50V, NPO	603	Std	Std	5650
3	C33-34 C36	10nF	Capacitor, Ceramic, 50V, X7R	603	Std	Std	5650
1	C13	18pF	Capacitor, Ceramic, 50V, NPO	603	Std	Std	5650
2	C9 C14	1nF	Capacitor, Ceramic, 50V, X7R	603	Std	Std	5650
2	C21 C24	1uF	Capacitor, Ceramic, 25V, X5R	603	Std	Std	5650
1	C11	2.2uF	Capacitor, Ceramic, 10V, X5R, ±10%	603	Std	Std	5650
1	C12	220nF	Capacitor, Ceramic, 25V, X7R, ±10%	603	Std	Std	5650
1	C26	22nF	Capacitor, Ceramic, 50V, X7R	603	Std	Std	5650
1	C27	3300pF	Capacitor, Ceramic, 50V, COG, 10%	603	Std	Std	5650
1	C100	8200pF	Capacitor, Ceramic, 50V, X7R	603	Std	Std	5650
1	C29	dnp	Capacitor, Ceramic, 50V, X7R, 10%	603	Std	Std	5650
1	C32	dnp	Capacitor, Ceramic, 50V, X7R	603	Std	Std	5650
1	C35	10uF	Capacitor, Ceramic, 16V, X5R	805	Std	Std	10560
1	C25	10nF	Capacitor, Polypropilene, 1KV, 10%	1210	FKP1O121004F00	WIMA	28000
4	C16-17 C22-23	2.2uF	Capacitor, Ceramic, 2.2-uF, 100V, X7R, ±10%	1210	Std	Std	83.600
1	C18	0.1uF	Capacitor, Ceramic, 630V, X7R, 20%	1812	C4532X7R2J104M	TDK	43.360
2	C3 C6	1000pF	Capacitor, Ceramic Disc, 1-nF, 250V, Y1/X1	0.394 X 0.315 inch Max.	ECK-ANA102MB	Panasonic	128
1	C4	0.22 uF	Capacitor, Film, 275VAC, 20%	0.689 x 0.217	R46KI322050M2M	KEMET (Arcotronics)	97500
1	C7	0.68uF	Capacitor, Polypropilene, 520V, 10%	0.690 x 0.374 inch	R71VI3680AA30K	KEMET (Arcotronics)	315700
1	C2	100uF	Capacitor, Aluminum Electrolytic, 25-V, ±20%	6.3mm x 11.5mm	EKZE250ESS101MF11D	Nippon Chemi-Con	44100
1	C1	100uF	Capacitor, Aluminum Electrolytic, 50-V, ±20%	8mm *11.5mm	EKZE500ESS101MHB5D	Nippon Chemi-Con	77872
1	C5	100uF	Capacitor, Alum Electrolytic 450 V, ±20%	18.00 mm Dia	EKXJ451ESS101MMP1S	Nippon Chemi-Con	277.59 mm
2	CL1-2	NA	Current Loop, Wire, 20 ga., stranded, 3.0in.	0.060 x 0.400 inch	NA	Std	0.039 inch
5	D28 D30-32 D36	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
2	D100-101	BAS40-04	Diode, Dual series Schottky, 40-V	SOT23	BAS70-04LT1	On Semi	14105
1	D29	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105
1	D5	GBJ606	Diode, Bridge Rectifier, 6A, 600V	1.190 x 0.190 inch	GBJ606	Std	25452
1	D6	BYG10J	Diode, 1.5A, 600-V	SMA	BYG10J	Std	29520
1	D7	BYG10J	Diode, 1.5A, 600-V	SMA	BYG10J		29520
1	D4	ES3J	Diode, Rectifier, Trr 20 ns, Vrrm 600V, 3A	DO-214AB	ES3J	Fairchild	95000
2	D33-34	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild	19380
1	D8	MBR0530	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530L	Vishay	19380
8	D10-13 D19-20 D22-23	MBRS1100	Diode, Schottky, 1A, 100V	SMB	MBRS1100T3	ON Semi	95000
2	D16 D27	56V	Diode, Zener, 10mA	SOD-123	MMSZ5263BT1G	ON Semi	195000
1	D14	HV_WARNING	Diode, LED, Red, 2.1-V, 20-mA, 6-mcd	603	LTST-C190CKT	Lite On	9451
2	D15 D25	MURA160T3	Diode, Rectifier Ultrafast, 1-A, 600-V	SMA	MURA160T3	ON Semi	29520
1	D1	BYS11-90	Diode, Schottky, 1A, 90-V	SMA	BYS11-90-E3/TR	Std	29520
1	D3	18V	Diode, Zener, 18-V, 1W	SMA	SMAZ18-13	Std	37520
1	D35	BZX84C12	Diode, Zener, 12V, 20-mA, 225-mW, 5%	SOT23	BZX84C12LT1G	Onsemi	13419
1	F1	2.5A/250V	Fuse, TR5 Series, 2.5A, 250V	0.335	3701250041	Wickmann	104,635
1	J4	PTC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins	
1	L1	470uH	Inductor, SMT, Isat 1.64-A, 786-milliohm	0.484 x 0.484 inch	MSS1278T-474KL	Coilcraft	269,336
1	T1	650uH	Inductor, Transition Mode PFC	28.9 X 30.2 mm	TXS002-060410	ITACOIL	1056.00 mm
1	L2	2x10 mH	Inductor, Common Mode Choke, 1.98A, 250V	26.50 sq mm	SCLE25103	ITACOIL	780.64 mm

1	JP2	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
1	U5	TLC272AI	IC, Dual Operational Amplifiers	SO8	TLC272AI	TI	52578
2	U2 U4	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay	47740
1	R42	500k	Potentiometer, 3/8 Cermet, SingleTurn, Flat	0.250 sq inch	3362P-504	Bourns	0,0676
1	R11	10	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R9	10.5k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R43	100k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
4	R22 R27 R32 R37	10k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R13	11.8k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R23	17.4k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R25	2.8k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R12	21.5k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
3	R20-21 R29	4.75	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R30	47.5k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R24	475	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R5	6.65k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
1	R44	6.81k	Resistor, Chip, 1/16W, 1%	603	Std	Std	5,650
2	R8 R10	1.1M	Resistor, Chip, 1/4-W, 1%	1206	Std	Std	15390
2	R1-2	100k	Resistor, Chip, 100-kOhms, 1/4-W, 1%	1206	Std	Std	15390
2	R18 R26	470k	Resistor, Chip, 470-kOhms, 1/4-W, 1%	1206	Std	Std	15390
2	R6-7	511k	Resistor, Chip, 511-kOhms, 1/4-W, 1%	1206	Std	Std	15390
1	R4	0.4	Resistor, Chip, 0.40-Ohms, 1-W, 1%	2512	Std	Std	35100
1	R41	0	Resistor, Chip, 1/16-W, 1%	603	Std	Std	9100
2	R19 R31	10k	Resistor, Chip, 1/16-W, 1%	603	Std	Vishay	9100
1	R33	12.1k	Resistor, Chip, 1/16W, 1%	603	Std	Std	9100
2	R36 R40	220K	Resistor, Chip, 1/16-W, 1%	603	Std	Std	9100
1	R14	332	Resistor, Chip, 1/16W, 1%	603	Std	Std	9100
1	R100	357	Resistor, Chip, 1/16W, 1%	603	Std	Std	9100
1	R35	dnp	Resistor, Chip, 1/16-W, 1%	603	Std	Std	9100
2	R15-16	100k	Resistor, Chip, 100-kOhms, 1/4-W, 1%	1206	Std	Std	20,000
2	J2-3	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
1	RT1	2.5 Ohms	Thermistor, NTC, 2.5 Ohms, 6.5-A	0.590 x 0.276	B57237S0259M000	Epcos	192,200
1	U6	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI	16384
1	U7	TLC555D	IC, Timer, Low-Power CMOS	SO8	TLC555D	TI	75900
1	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
4	TP1 TP4-6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	10
1	Q5	PZT2222A	Trans, GP NPN Amplifier, 40Vceo, 1A	SOT-223	PZT2222A	Fairchild	81000
3	Q1 Q3-4	SPD08N50	MOSFET, N-ch, 560-V, 7.6-A, 600-milliOhms	DPAK	Std	Std	107500
1	U3	TPS92020	IC, Resonant Switching LED Driver Controller	SO-8	TPS92020	TI	75900
1	U1	UCC28810D	IC, LED Lighting Power Controller	SO8	UCC28810D	TI	75900
2	T2 T4	TXS001-080410	Transformer, Resonant	26.3 X 26.4 mm	TXS001-080410	ITACOIL	841.00 mm
1	T3	GT03	Xfmr, Gate Drive Transformer 1in-2out	0.421 x 0.630 inch	GT03-111-110-A	ICE	498,800
1	T100	PE63587	XFMR, Current Sense	0.700 x 0.900 inch	PE63587	Pulse	800000

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