

Variant: 001  
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## PMP23454 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PMP23454	Any	Printed Circuit Board	
2	C1, C21	2	1uF	GRT155R6YA105KE13D	MuRata	CAP, CERM, 1 $\mu$ F, 35 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0402	0402
3	C2, C22	2	2.2uF	GRT155R61E225KE13D	MuRata	CAP, CERM, 2.2 $\mu$ F, 25 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0402	0402
4	C3, C13	2	0.022uF	ECW-F6223HL	Panasonic	CAP, Film, 0.022 $\mu$ F, 630 V, +/- 3%, TH	12.5x6.2mm
5	C4, C5, C10, C11, C12	5	820uF	100ZLJ820M18X40	Rubycon	CAP, AL, 820 $\mu$ F, 100 V, +/- 20%, TH	Dia 18mm
6	C6	1	22uF	GMK325BJ226MM-P	Taiyo Yuden	CAP, CERM, 22 $\mu$ F, 35 V, +/- 20%, X5R, 1210	1210
7	C7, C8, C14, C15, C16, C61, C62, C70, C71	9	4.7uF	C3216X7R1V475K085AC	TDK	CAP, CERM, 4.7 $\mu$ F, 35 V, +/- 10%, X7R, 1206	1206
8	C9	1	150pF	GRM31A5C2J151JW01D	MuRata	CAP, CERM, 150 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
9	C17	1	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
10	C18	1	560pF	CC1206KRX7R9BB561	Yageo America	CAP, CERM, 560 pF, 50 V, +/- 10%, X7R, 1206	1206
11	C19	1			Würth Elektronik	WCAP-ATLI Aluminum Electrolytic Capacitor, Radial, THT, D8 x H16mm, 82 $\mu$ F, 63V	
12	C20	1	1000pF	CD45-E2GA102M-NKA	TDK	CAP, CERM, 1000 pF, V, +/- 20%, E, D7xT6mm	D7xT6mm
13	C23, C24	2	22uF	GRM32ER61E226KE15L	MuRata	CAP, CERM, 22 $\mu$ F, 25 V, +/- 10%, X5R, 1210	1210
14	C25	1	47pF	GRM1555C1E470JA01D	MuRata	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
15	C27, C72	2	0.1uF	C0603C104J3RAC	Kemet	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 5%, X7R, 0603	0603
16	C28	1	0.1uF	GRM31C5C1E104JA01L	MuRata	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 5%, C0G/NP0, 1206	1206
17	C29	1	0.033uF	CGA2B3X7R1H333K050BB	TDK	CAP, CERM, 0.033 $\mu$ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
18	C30	1	120pF	GRM1555C1H121FA01D	MuRata	CAP, CERM, 120 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
19	C31	1	6800pF	C0603C682K5RACTU	Kemet	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
20	C32	1	0.012uF	GRM155R71H123KA12D	MuRata	CAP, CERM, 0.012 $\mu$ F, 50 V, +/- 10%, X7R, 0402	0402
21	C33	1	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
22	C34, C35	2	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X5R, 0402	0402
23	C36	1	4.7uF	C3216X7R1E475K085AB	TDK	CAP, CERM, 4.7 $\mu$ F, 25 V, +/- 10%, X7R, 1206	1206
24	C37, C39	2	220pF	C0603X221K5RACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
25	C38	1	0.1uF	C0603X104K3RACTU	Kemet	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
26	C40	1	22uF	TMK316BBJ226ML-T	Taiyo Yuden	CAP, CERM, 22 $\mu$ F, 25 V, +/- 20%, X5R, 1206_190	1206_190
27	C41, C46	2	1000pF	VY2102M29Y5UG63V7	Vishay-Bccomponents	CAP, CERM, 1000 pF, 300 V, +/- 20%, Y5U, Radial Disc 7.5mm, Is=7.5	Radial Disc 7.5mm, Is=7.5
28	C42	1	470uF	MAL215990103E3D	Vishay-Bccomponents	CAP, AL, 470 $\mu$ F, 450 V, +/- 20%, 0.3 ohm, TH	D35xL40mm
29	C43	1	0.47uF	ECQ-U2A474ML	Panasonic	CAP, Film, 0.47 $\mu$ F, 275 V, +/- 20%, TH	Radial 25x8.5x18.5
30	C44	1	100nF	F861BB104K310A	KEMET	0.1 $\mu$ F Film Capacitor 310V 630V Polypropylene (PP), Metallized Radial	RADIAL
31	C45	1	0.22uF	890324025027CS	Würth Elektronik	CAP, Film, 0.22 $\mu$ F, 275 V, +/- 10%, TH	18x6x11.5mm
32	C47	1	0.22uF	B32922C3224K	TDK	CAP, Film, 0.22 $\mu$ F, 630 V, +/- 10%, TH	B32922_12.5mm
33	C48, C49, C51, C58	4	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
34	C50	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
35	C52	1	0.47uF	C0603C474K8RACTU	Kemet	CAP, CERM, 0.47 $\mu$ F, 10 V, +/- 10%, X7R, 0603	0603
36	C53	1	4.7uF	GRM319R61E475KA12D	MuRata	CAP, CERM, 4.7 $\mu$ F, 25 V, +/- 10%, X5R, 1206	1206
37	C54	1	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 $\mu$ F, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
38	C55	1	680pF	06031C681KAT2A	AVX	CAP, CERM, 680 pF, 100 V, +/- 10%, X7R, 0603	0603
39	C57	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
40	C59	1	820pF	06035A821JAT2A	AVX	CAP, CERM, 820 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
41	C60	1	10uF	C1206C106J3RACAUTO	Kemet	CAP, CERM, 10 $\mu$ F, 25 V, +/- 5%, X7R, AEC-Q200 Grade 1, 1206	1206
42	C66	1	100pF	CL10B101KB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0603	0603

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43	C73	1	0.047uF	C1005X5R1H473K050BB	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X5R, 0402	0402
44	C74	1	0.22uF	06033D224KAT2A	AVX	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X5R, 0603	0603
45	C76	1	22pF	GRM1555C1H220FA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
46	C77, C78	2	470pF	GRM155R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	0402
47	C200, C201	2	0.033uF	ECW-H8333HA	Panasonic	CAP, Film, 0.012 uF, 800 V, +/- 3%, TH	Cap, 15.4x11.7x5.8mm
48	C202	1		8.60241E+11	Würth Elektronik	WCAP-AT1H Aluminum Electrolytic Capacitor, Radial, THT, D10 x H20mm, 220µF, 35V	
49	D1, D3	2	30V	PMEG3010EGWJ	Nexperia	Diode, Schottky, 30 V, 1 A, AEC-Q101, SOD-123	SOD-123
50	D2	1	100V	SS1H10-E3/61T	Vishay-Semiconductor	Diode, Schottky, 100 V, 1 A, SMA	SMA
51	D4	1	30V	BAT54WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
52	D5	1	600V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
53	D6	1	30V	BAT54A-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
54	D7	1	S3J-E3/57T	S3J-E3/57T	Vishay-Semiconductor	Diode, Switching, 600 V, 3 A, SMC	SMC
55	D8	1	600V	C3D08060A	Cree	Diode, Schottky, 600 V, 8 A, TH	TO-220-2
56	D9	1	GBU1006	GBU1006	Diodes Inc.	Diode, Switching-Bridge, 600 V, 10 A, TH	GBU
57	D10, D11	2	600V	S1J	ON Semiconductor	DIODE GEN PURP 600V 1A SMA	SMA
58	D12, D14	2	100V	BAS316,115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
59	D13	1	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
60	D17, D18, D20	3	60V	SD101AWS-7-F	Diodes Inc.	Diode, Schottky, 60 V, 0.015 A, SOD-323	SOD-323
61	D19	1	15V	MMSZ5245BS-7-F	Diodes Inc.	Diode, Zener, 15 V, 200 mW, SOD-323	SOD-323
62	D21, D22	2	4.7V	MM3Z4V7B	ON Semiconductor	Diode, Zener, 4.7 V, 200 mW, SOD-323	SOD-323
63	D200	1	3V	MMSZ5225BS-7-F	Diodes Inc.	Diode, Zener, 3 V, 200 mW, SOD-323	SOD-323
64	F1	1	8A	0216008.MXESPP	Littelfuse	Fuse, 8 A, 250VAC/VDC, TH	Fuse, 20x5.2mm
65	H1, H3	2		513102B02500G	Aavid	Extruded heat sink with radial fins	Heat Sink TO-220 Aluminum
66	H2	1		CR101-50VE	Ohmite	ALUMINUM HEATSINK 50MM BLK ANODI	PTH_HEATSINK
67	J1	1		NPPN032AFCN-RC	Sullins Connector Solutions	6 Position Header Connector 0.079" (2.00mm) Through Hole Gold	HDR6
68	J2	1		1-1123724-3	TE Connectivity	CONN HEADER VERT 5POS 3.96MM	19.7x10.7 x8.5 mm
69	J3	1		ED120/4DS	On-Shore Technology	Terminal Block, 5.08 mm, 4x1, Brass, TH	4x1 5.08 mm Terminal Block
70	J4	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
71	L1	1		RLTI-1328	Renco Electronics	INDUCTOR WITH KOOL MU MAX CORE	PTH_INDUCTOR
72	L2	1	1mH	744824101	Würth Elektronik	Coupled inductor, 1 mH, 10 A, 0.007 ohm, TH	18.5x33x27.5 mm
73	L3	1		TSD-3920A	Premier Magnetics	Transformer	PTH_30MM5_18MM5
74	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
75	MP1, MP2, MP3, MP4	4		4880SG	Aavid Thermalloy	Mounting Kit For TO-220 Heat Sinks	
76	Q1, Q2, Q3, Q9, Q10, Q11	6		ISC030N10NM6	Texas Instruments		DNK0008A
77	Q4, Q7	2		IIP60R125CFD7XKSA1	Infineon Technologies	N-Channel 600 V 18A (Tc) 92W (Tc) Through Hole PG-TO220-3	TO220
78	Q5, Q8	2	30 V	BC858C-7-F	Diodes Inc.	Transistor, PNP, 30 V, 0.1 A, SOT-23	SOT-23
79	Q6	1	40V	CSD18510Q5B	Texas Instruments	MOSFET, N-CH, 40 V, 42 A, DNK0008A (VSON-CLIP-8)	DNK0008A
80	Q12, Q18, Q20	3	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
81	Q13	1	600V	IIP60R099C7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 22 A, TO-220AB	TO-220AB
82	Q14, Q17	2	-60V	SI2309CDS-T1-E3	Vishay-Siliconix	MOSFET, P-CH, -60 V, -1.6 A, SOT-23	SOT-23
83	Q15	1	600V	STB13N60M2	STMicroelectronics	MOSFET, N-CH, 600 V, 11 A, DDPAK	DDPAK
84	Q16	1	40 V	MMBT4401-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
85	Q21	1	40 V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
86	Q23	1	60 V	MMBT2907A	Fairchild Semiconductor	Transistor, PNP, 60 V, 0.8 A, SOT-23	SOT-23
87	R1, R14	2	2.00k	ERJ-2RKF2001X	Panasonic	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402

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88	R2, R15, R29, R36, R38, R49, R107	7	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
89	R3, R8	2	22.1	RC0603FR-0722R1L	Yageo	RES, 22.1, 1%, 0.1 W, 0603	0603
90	R4, R9, R54, R73, R79, R81, R85, R200	8	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
91	R5, R6, R7	3	7.5	RC1206FR-077R5L	Yageo America	RES, 7.50, 1%, 0.25 W, 1206	1206
92	R10, R12, R13	3	0.005	CSNL2010FT5L00	Stackpole Electronics Inc	RES, 0.005, 1%, 1.5 W, 2010	2010
93	R11	1	75	RC1206FR-0775RL	Yageo America	RES, 75.0, 1%, 0.25 W, 1206	1206
94	R16, R17	2	4.75	CRCW04024R75FKED	Vishay-Dale	RES, 4.75, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
95	R18, R19, R24	3	1.65k	RC1206FR-071K65L	Yageo America	RES, 1.65 k, 1%, 0.25 W, 1206	1206
96	R20, R21, R30	3	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
97	R23	1	2.2	RC1206FR-072R2L	Yageo America	RES, 2.20, 1%, 0.25 W, 1206	1206
98	R25	1	9.09k	CRCW04029K09FKED	Vishay-Dale	RES, 9.09 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
99	R26, R32, R37	3		KTR18EZPF3304	Rohm Semiconductor	3.3 MOhms $\pm$ 1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Automotive AEC-Q200, High Voltage Thick Film	1206
100	R27, R28, R90	3	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
101	R31, R55, R89	3	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
102	R33	1	2.05k	RC0603FR-072K05L	Yageo	RES, 2.05 k, 1%, 0.1 W, 0603	0603
103	R34, R57	2	1.00Meg	MCT06030C1004FP500	Vishay/Beyschlag	RES, 1.00 M, 1%, 0.125 W, 0603	0603
104	R35	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
105	R39, R58, R68	3	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
106	R40, R87, R95	3	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
107	R41	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
108	R42, R43	2	10.0k	RK73H1ETTP1002F	KOA Speer	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
109	R44	1	20.5k	CRCW040220K5FKED	Vishay-Dale	RES, 20.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
110	R45	1	82.5k	RC0603FR-0782K5L	Yageo	RES, 82.5 k, 1%, 0.1 W, 0603	0603
111	R46	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
112	R47	1	13.0k	CRCW040213K0FKED	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
113	R48	1	470k	B57371V2474J060	TDK	NTC Thermistor 470k 0603 (1608 Metric)	0603
114	R50	1	5.36k	CRCW04025K36FKED	Vishay-Dale	RES, 5.36 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
115	R51	1	11.0k	RC0603FR-0711KL	Yageo	RES, 11.0 k, 1%, 0.1 W, 0603	0603
116	R52	1	365k	RC0603FR-07365KL	Yageo	RES, 365 k, 1%, 0.1 W, 0603	0603
117	R53	1	221k	RC0603FR-07221KL	Yageo	RES, 221 k, 1%, 0.1 W, 0603	0603
118	R56	1	10.0k	ERJ-3EKF1002V	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0603	0603
119	R59	1	0.025	CSRN2512FK25L0	Stackpole Electronics Inc	RES, 0.025, 1%, 2 W, 2512	2512
120	R60	1	221	CRCW0603221RFKEA	Vishay-Dale	RES, 221, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
121	R61	1	75.0k	RC0603FR-0775KL	Yageo	RES, 75.0 k, 1%, 0.1 W, 0603	0603
122	R62, R63, R65	3	1.00Meg	RC1206FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.25 W, 1206	1206
123	R64	1	10	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
124	R66	1	390k	RC0603FR-07390KL	Yageo	RES, 390 k, 1%, 0.1 W, 0603	0603
125	R69	1	49.9k	RC0603FR-0749K9L	Yageo	RES, 49.9 k, 1%, 0.1 W, 0603	0603
126	R70	1	14.7k	RC0603FR-0714K7L	Yageo	RES, 14.7 k, 1%, 0.1 W, 0603	0603
127	R71	1	16.2k	RC0603FR-0716K2L	Yageo	RES, 16.2 k, 1%, 0.1 W, 0603	0603
128	R72	1	39.2k	RC0603FR-0739K2L	Yageo	RES, 39.2 k, 1%, 0.1 W, 0603	0603
129	R74, R75, R76	3	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
130	R92, R93, R98	3	49.9k	MCR01MZPF4992	Rohm	RES, 49.9 k, 1%, 0.063 W, 0402	0402
131	R96	1	100k	RC1005F104CS	Samsung Electro-Mechanics	RES, 100 k, 1%, 0.063 W, 0402	0402
132	R99	1	1.00Meg	RC0402FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.063 W, 0402	0402
133	R100	1	2.74k	CRCW04022K74FKED	Vishay-Dale	RES, 2.74 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
134	R108	1	4.99k	ERJ-2RKF4991X	Panasonic	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
135	R201	1	1.00k	ERJ-3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0603	0603
136	RT1	1	10	B57236S0100M000	TDK	Thermistor NTC, 10 ohm, 20%, Disc_11.5mmx6mm	Disc_11.5mmx6mm
137	RV1	1	300V	B72207S2301K101	TDK	Varistor, 300V, 1.75kA, 7MM Radial, TH	Varistor, TH, 7MM

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138	T1	1		PAT7328NL	Pulse	XFMR,LLC, 420W, PQ32, TH	PTH8
139	TP1, TP2, TP3, TP11, TP12	5		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
140	TP4, TP10, Vin1	3		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
141	TP5, TP9	2		5013	Keystone Electronics	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
142	TP6, TP7, TP8	3		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
143	U1, U3	2		UCC24612-2DBVT	Texas Instruments	High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5)	DBV0005A
144	U2	1		LM317DCYR	Texas Instruments	3/4 Pin 1.5A Adjustable Positive Voltage Regulator, DCY0004A (SOT-223-4)	DCY0004A
145	U4	1		UCC256604DDBR	Texas Instruments	750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency	SOIC14
146	U5	1		LM324BIPWR	Texas Instruments	Quad, 36-V, 1.2-MHz 3-mV offset voltage operational amplifier	TSSOP14
147	U6, U9	2		VO618A-3	Vishay-Semiconductor	Optocoupler, 5.3 kV, 100-200% CTR, SMT	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
148	U7	1		UCC28180DR	Texas Instruments	8-PIN CONTINUOUS CONDUCTION MODE (CCM) PFC CONTROLLER, D0008A (SOIC-8)	D0008A
149	U10	1		TPS7B8133QDRVRQ1	Texas Instruments	Automotive 150-mA high-voltage ultra-low-IQ low-dropout (LDO) linear regulator, DRV0006A (WSON-6)	DRV0006A
150	U12	1		TL331IDBVR	Texas Instruments	SINGLE DIFFERENTIAL COMPARATOR, DBV0005A (SOT-23-5)	DBV0005A
151	C26	0	4700pF	GRM155R71H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0402	0402
152	C56	0	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
153	C63, C67	0	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
154	C64, C68	0	470pF	8.85012E+11	Würth Elektronik	CAP, CERM, 470 pF, 10 V,+/- 5%, C0G/NP0, 0603	0603
155	C65	0	3300pF	GRM188R72A332KA01D	MuRata	CAP, CERM, 3300 pF, 100 V, +/- 10%, X7R, 0603	0603
156	C69	0	220pF	06035A221FAT2A	AVX	CAP, CERM, 220 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
157	C75	0	100pF	CL10B101KB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 100 pF, 50 V,+/- 10%, X7R, 0603	0603
158	C79	0	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
159	C80	0	0.022uF	GCM155R71H223KA55D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, C0G/NP0, 0402	0402
160	D15	0	5.1V	BZT52C5V1S-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
161	D16	0	15V	MMSZ5245BS-7-F	Diodes Inc.	Diode, Zener, 15 V, 200 mW, SOD-323	SOD-323
162	Q19	0	40V	CSD18510Q5B	Texas Instruments	MOSFET, N-CH, 40 V, 42 A, DNK0008A (VSON-CLIP-8)	DNK0008A
163	Q22, Q24	0	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
164	Q25	0	60 V	MMBT2907A	Fairchild Semiconductor	Transistor, PNP, 60 V, 0.8 A, SOT-23	SOT-23
165	Q26	0	40 V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
166	R22	0	1.21k	CRCW04021K21FKED	Vishay-Dale	RES, 1.21 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
167	R67	0	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
168	R77	0	1.00Meg	RC0603FR-071ML	Yageo	RES, 1.00 M, 1%, 0.1 W, 0603	0603
169	R78	0	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
170	R80	0	1	RC0603FR-071RL	Yageo	RES, 1.00, 1%, 0.1 W, 0603	0603
171	R82	0	82	RC0603FR-0782RL	Yageo	RES, 82.0, 1%, 0.1 W, 0603	0603
172	R83	0	732	RC0603FR-07732RL	Yageo	RES, 732, 1%, 0.1 W, 0603	0603
173	R84	0	681k	RC0603FR-07681KL	Yageo	RES, 681 k, 1%, 0.1 W, 0603	0603
174	R86	0	5.11k	RC0603FR-075K11L	Yageo	RES, 5.11 k, 1%, 0.1 W, 0603	0603
175	R88, R102	0	2.00k	ERJ-2RKF2001X	Panasonic	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
176	R91, R94, R97	0	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
177	R101	0	1.00Meg	MCT06030C1004FP500	Vishay/Beyschlag	RES, 1.00 M, 1%, 0.125 W, 0603	0603
178	R103	0	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
179	R104, R106	0	41.2k	CRCW040241K2FKED	Vishay-Dale	RES, 41.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
180	R105	0	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
181	TP14	0		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
182	U8	0		TPS25983xyNRGE	Texas Instruments	TPS25983	VQFN24
183	U11	0		VO618A-3	Vishay-Semiconductor	Optocoupler, 5.3 kV, 100-200% CTR, SMT	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm