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**PMP20054 REV A Bill of Materials**

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2, C14, C15, C16, C17, C19	7	47uF	GRM32ER61A476KE20L	MuRata	CAP, CERM, 47 µF, 10 V, +/- 10%, X5R, 1210	1210
2	C6, C8	2	1500pF	C0603C152K5RACTU	Kemet	CAP, CERM, 1500 pF, 50 V, +/- 10%, X7R, 0603	0603
3	C9, C11, C12, C29, C30, C31, C42, C43	8	100uF	GRM32ER60J107ME20L	MuRata	CAP, CERM, 100 µF, 6.3 V, +/- 20%, X5R, 1210	1210
4	C13	1	1u	Std	Std	Capacitor, Ceramic	0603
5	C20	1	820pF	GRM1555C1H821JA01D	MuRata	CAP, CERM, 820 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
6	C21, C22	2	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 20%, X7R, 0402	0402
7	C23, C24	2	0.033uF	GRM155R71E333KA88D	MuRata	CAP, CERM, 0.033 µF, 25 V, +/- 10%, X7R, 0402	0402
8	C25	1	0.047u	Std	Std	Capacitor, Ceramic	0402
9	C33	1	4.7u	Std	Std	Capacitor, Ceramic	0805
10	C36	1	1000pF	885012205061	Wurth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
11	J1	1	ED120/2DS			Terminal Block, 2-pin, 15-A, 5.1mm	
12	J2	1	ED120/4DS			Terminal Block, 4-pin, 15-A, 5.1mm	
13	L1, L2	2	470nH	PA4343.471NLT	Pulse Engineering	Inductor, Shielded, 470 nH, 41 A, 0.0012 ohm, AEC-Q200 Grade 1, SMD	14x12.8mm
14	P1, P3, P5, P8	4	PEC02SAA N			Header, Male 2-pin, 100mil spacing,	
15	Q1, Q2	2		CSD86360Q5D	Texas Instruments	Synchronous Buck NexFET Power Block, DQY0008A	DQY0008A
16	R3, R4	2	2.2	ERJ-6GEYJ2R2V	Panasonic	RES, 2.2, 5%, 0.125 W, 0805	0805
17	R5	1	10			Resistor, Chip, 1/16W, 1%	
18	R7, R29	2	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
19	R8	1	24.3k	CRCW040224K3FKED	Vishay-Dale	RES, 24.3 k, 1%, 0.063 W, 0402	0402
20	R11, R12	2	2.2	Std	Std	Resistor, Chip, 1/16W, 1%	0402
21	R14, R15	2	10k	Std	Std	Resistor, Chip, 1/16W, 1%	0402
22	R18, R28	2	49.9	Std	Std	Resistor, Chip, 1/16W, 1%	0402
23	R20	1	0	Std	Std	Resistor, Chip, 1/16W, 1%	0402
24	R22	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, 0402	0402
25	R24	1	7.5k	CRCW04027K50JNED	Vishay-Dale	RES, 7.5 k, 5%, 0.063 W, 0402	0402
26	R26	1	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5 k, 1%, 0.063 W, 0402	0402
27	R30	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
28	R34	1	510	Std	Std	Resistor, Chip, 1/16W, 1%	0402
29	R36	1	OPEN	Std	Std	Resistor, Chip, 1/16W, 1%	0402
30	TP1, TP2	2	5005			Test Point, Red, Thru Hole Compact Style	
31	TP3	1	5006	5006	Keystone	Test Point, Black, Thru Hole Compact Style	0.125 x 0.125 inch
32	TP6	1	5005	5005	Keystone	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch
33	U1	1	TPS40322R HB	TPS40322RHB	Ti	IC, Dual Synchronous Buck Controller	QFN-32
34	C3, C4	0	47u			SURFACE MOUNT TANT. CAPACITOR	
35	C5, C7	0		Std	Std	Capacitor, Ceramic	0402
36	C18	0	22u	GRM32ER61C226ME20B	muRata	Capacitor, Ceramic, 22u, 16V, X5R, 1210	1210
37	C28	0	100p	Std	Std	Capacitor, Ceramic	0402
38	C32	0	270u			Capacitor, OSCON, wW, zzmillionhm, 20%	
39	C35	0	0.1u			Capacitor, Ceramic	
40	C38, C39, C40, C41	0	470u			SURFACE MOUNT TANT. CAPACITOR	
41	HMAP1	0	129-0701- 302			CONNECTOR, SHEILDLED, TEST JACK	
42	R1, R2, R17, R25, R27	0		Std	Std	Resistor, Chip, 1/16W, 1%	0402
43	R6	0	OPEN	Std	Std	Resistor, Chip, 1/16W, 1%	0402
44	R33	0	49.9			Resistor, Chip, 1/16W, 1%	
45	R38	0	10k			Resistor, Chip, 1/16W, 1%	

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