

## PMP15035 REV E1 Bill of Materials

Designator	Quantity	VALUE	PartNumber	Manufacturer	Description	PackageReference
A to B	1	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603
B to A	1	Green	150060VS75000	Würth Elektronik	LED, Green, SMD	LED_0603
C1, C9, C25, C42, C44, C47, C55, C74, C76, C120	10	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C2, C11	2	330pF	C0603C331J5GACTU	Kemet	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C3, C10	2	10pF	0603ZC100KAT2A	AVX	CAP, CERM, 10 pF, 10 V, +/- 10%, X7R, 0603	0603
C4, C13	2	0.018uF	GRM188R71H183KA01D	MuRata	CAP, CERM, 0.018 uF, 50 V, +/- 10%, X7R, 0603	0603
C5, C12	2	3900pF	GRM188R71H392KA01D	MuRata	CAP, CERM, 3900 pF, 50 V, +/- 10%, X7R, 0603	0603
C6, C15	2	0.047uF	08055C473KAT2A	AVX	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0805	0805
C7, C14	2	0.01uF	885012207092	Würth Elektronik	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0805	0805
C8, C30, C31, C32, C36, C61, C62, C63, C66	9	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C16, C17, C37, C38, C68, C69	6	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 µF, 100 V, +/- 10%, X7S, 0805	0805
C18, C19	2	10uF	GRT31CR61H106KE01L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 1, 1206	1206
C20, C21	2	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C22, C45, C75	3	2.2uF	C2012X7R1C225K125AB	TDK	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	0805
C23	1	47uF	C3216X5R1C476M160AB	TDK	CAP, CERM, 47 uF, 16 V, +/- 15%, X5R, 1206	1206
C24	1	1800pF	GCJ216R71E182KA01D	MuRata	CAP, CERM, 1800 pF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C26	1	360pF	GRM1885C1H361JA01D	MuRata	CAP, CERM, 360 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C27, C28, C46, C77	4	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C29	1	0.068uF	CGA3E2X7R1H683K080AA	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C33, C58, C64, C88	4	470pF	885012206081	Würth Elektronik	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
C34, C54, C65, C85	4	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	0603
C35, C49, C50, C59, C67, C79, C80, C89	8	0.01uF	06031C103KAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X7R, 0603	0603
C39, C51, C70, C82	4	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 µF, 16 V, +/- 10%, X7R, 0603	0603
C40, C41, C52, C53, C56, C57, C60, C71, C72, C83, C84, C86, C87	13	100pF	C0603C101J5GACTU	Kemet	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C43, C48, C73, C78	4	0.22uF	C1608X7R1H224K080AB	TDK	CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, 0603	0603
C92, C93, C110, C111	4	100pF	08051A101KAT2A	AVX	CAP, CERM, 100 pF, 100 V, +/- 10%, C0G/NP0, 0805	0805

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C94, C95, C96, C97, C102, C103, C104, C105, C112, C114, C115, C127	12	180uF	PCR1H181MCL1GS	Nichicon	CAP, Aluminum Polymer, 180 uF, 50 V, +/- 20%, 0.019 ohm, SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm SMD	SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm
C98, C99, C100, C101, C106, C107, C108, C109, C116, C117, C118, C119, C121, C122, C123, C126	16	4.7uF	C5750X7R2A475M230KA	TDK	CAP, CERM, 4.7 uF, 100 V, +/- 20%, X7R, 2220	2220
D1, D2, D5, D6, D10, D11, D16, D17	8	75V	CMDD4448	Central Semiconductor	Diode, Ultrafast, 75 V, 0.25 A, SOD-323	SOD-323
D7	1	100V	1N4148W-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.15 A, SOD-123	SOD-123
D8, D9	2	60V	SS16T3G	ON Semiconductor	Diode, Schottky, 60 V, 1 A, SMA	SMA
D12, D13, D18, D19	4	60V	PMEG6010CEH,115	NXP Semiconductor	Diode, Schottky, 60 V, 1 A, SOD-123F	SOD-123F
D14	1	75V	1N4148X-TP	Micro Commercial Component	Diode, Switching, 75 V, 0.3 A, SOD-523	SOD-523
D15	1	5.1V	BZT52C5V1S-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
D21, D22, D23, D24, D25, D26, D27, D28	8	60V	FSV360FP	Fairchild Semiconductor	Diode, Schottky, 60 V, 3 A, AEC-Q101, SOD-123HE	SOD-123HE
J1	1		804-10-021-10-002000	Mill-Max	Header, 2.54 mm, 7x3, Gold, Vertical, TH	Header, 2.54 mm, 7x3, TH
J2, J3, J4, J5	4		108-0740-001	Emerson Network Power	Standard Banana Jack, Uninsulated, 15A	Banana Jack
L1	1	150uH	MSS1048-154KLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 150 uH, 1.16 A, 0.37 ohm, SMD	MSS1048
L8, L9, L10, L11	4		ERU33	Used in BOM report		eg: 0603, used in PnP report
PGND, PGND, V12 A, V12 B	4		CXS70-14-C	Panduit	Terminal 70A Lug	LUG, 32.3x14.5x11.7
Q1, Q2, Q3, Q4, Q5, Q6	6	60V	2N7002E-T1-E3	Vishay-Siliconix	MOSFET, N-CH, 60 V, 0.24 A, SOT-23	SOT-23
Q7, Q8	2	60V	BSR606NH6327XTSA1	Infineon Technologies	MOSFET, N-CH, 60 V, 2.3 A, AEC-Q101, SOT-23	SOT-23
Q9	1	100V	BSS123W-7-F	Diodes Inc.	MOSFET, N-CH, 100 V, 0.17 A, SOT-323	SOT-323
Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25	16		NVMFS5C628NLT1G	Used in BOM report	MOSFET N-CH 60V SO8FL	eg: 0603, used in PnP report
R1, R17	2	17.8k	RC0603FR-0717K8L	Yageo America	RES, 17.8 k, 1%, 0.1 W, 0603	0603
R2, R16	2	37.4k	CRCW060337K4FKEA	Vishay-Dale	RES, 37.4 k, 1%, 0.1 W, 0603	0603
R3, R19	2	2.20k	RC0603FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.1 W, 0603	0603
R4, R18	2	7.50k	RC0603FR-077K5L	Yageo America	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R5, R21	2	9.09k	RC0603FR-079K09L	Yageo America	RES, 9.09 k, 1%, 0.1 W, 0603	0603
R6, R20	2	59.0k	RC0603FR-0759KL	Yageo America	RES, 59.0 k, 1%, 0.1 W, 0603	0603
R7, R22	2	499	RC0603FR-07499RL	Yageo America	RES, 499, 1%, 0.1 W, 0603	0603
R8, R9, R23, R24	4	200k	RC0603FR-07200KL	Yageo America	RES, 200 k, 1%, 0.1 W, 0603	0603
R10, R25, R54, R79	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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R11, R12, R27, R28	4	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
R13, R14, R15, R40, R42, R66, R68	7	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R30	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R31	1	29.4k	CRCW060329K4FKEA	Vishay-Dale	RES, 29.4 k, 1%, 0.1 W, 0603	0603
R32	1	1.07k	RC0603FR-071K07L	Yageo America	RES, 1.07 k, 1%, 0.1 W, 0603	0603
R33	1	18.2k	CRCW060318K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.1 W, 0603	0603
R34	1	0.22	RL1632R-R220-F	Susumu Co Ltd	RES, 0.22, 1%, 0.5 W, 1206	1206
R35	1	18.2k	RC0603FR-0718K2L	Yageo America	RES, 18.2 k, 1%, 0.1 W, 0603	0603
R36	1	732	CRCW0603732RFKEA	Vishay-Dale	RES, 732, 1%, 0.1 W, 0603	0603
R37	1	5.23k	CRCW06035K23FKEA	Vishay-Dale	RES, 5.23 k, 1%, 0.1 W, 0603	0603
R38	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R39, R45, R65, R71	4	95.3k	CRCW060395K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.1 W, 0603	0603
R41, R43, R67, R69	4	2.40k	RC0603FR-072K4L	Yageo America	RES, 2.40 k, 1%, 0.1 W, 0603	0603
R44, R62, R70, R86	4	1.50k	RC0603FR-071K5L	Yageo America	RES, 1.50 k, 1%, 0.1 W, 0603	0603
R46, R47, R72, R73	4	2.94k	RC0603FR-072K94L	Yageo America	RES, 2.94 k, 1%, 0.1 W, 0603	0603
R48, R49, R63, R74, R75	5	20.0k	RC0603FR-0720KL	Yageo America	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R50	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R51	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R52, R76	2	9.76k	RC0603FR-079K76L	Yageo America	RES, 9.76 k, 1%, 0.1 W, 0603	0603
R53, R58, R77, R83	4	2.00	RC0805FR-072RL	Yageo America	RES, 2.00, 1%, 0.125 W, 0805	0805
R55, R80	2	40.2k	RC0603FR-0740K2L	Yageo America	RES, 40.2 k, 1%, 0.1 W, 0603	0603
R56, R81	2	24.9	CRCW080524R9FKEA	Vishay-Dale	RES, 24.9, 1%, 0.125 W, 0805	0805
R57, R82	2	73.2k	RC0603FR-0773K2L	Yageo America	RES, 73.2 k, 1%, 0.1 W, 0603	0603
R59, R64	2	10.5k	RC0603FR-0710K5L	Yageo America	RES, 10.5 k, 1%, 0.1 W, 0603	0603
R60, R84	2	91.0k	RC0603FR-0791KL	Yageo America	RES, 91.0 k, 1%, 0.1 W, 0603	0603
R61, R85	2	30.9k	RC0603FR-0730K9L	Yageo America	RES, 30.9 k, 1%, 0.1 W, 0603	0603
R87, R99, R111, R123	4	0.001	CSS2725FT1L00	Stackpole Electronics Inc	RES, 0.001, 1%, 4 W, RES_2725	RES_2725
R88, R90, R91, R97, R100, R104, R105, R109	8	49.9k	CRCW080549K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.125 W, 0805	0805
R89, R101, R113, R125	4	10.0	CRCW121810R0FKEK	Vishay-Dale	RES, 10.0, 1%, 1 W, 1218	1218
R92, R93, R102, R103, R116, R117, R126, R127	8	1.00	RC0603FR-071RL	Yageo America	RES, 1.00, 1%, 0.1 W, 0603	0603
R94, R95, R96, R98, R106, R107, R108, R110, R118, R119, R120, R122, R130, R131, R132, R134	16	1.00	CRCW08051R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.125 W, 0805	0805

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R112, R114, R115, R121, R124, R128, R129, R133	8	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
U1, U4	2		LM6142AIM/NOPB	Texas Instruments	Dual High Speed/Low Power 17 MHz Rail-to-Rail I/O Operational Amplifier, 8-pin Narrow SOIC, Pb-Free	D0008A
U2	1		SN74LV00ADR	Texas Instruments	Quadruple 2-Input Positive-NAND Gates, D0014A, LARGE T&R	D0014A
U3	1		LM4040AIM3X-2.0	Texas Instruments	Precision Micropower Shunt Voltage Reference, 3-pin SOT-23	MF03A
U5	1		TPS70950DBVR	Texas Instruments	150-mA, 30-V, 1-uA IQ Voltage Regulators with Enable, DBV0005A	DBV0005A
U6	1		LM5118MH/NOPB	Texas Instruments	Wide Voltage Range Buck-Boost Controller, 20-pin TSSOP-EP, Pb-Free	MXA20A
U7, U8, U14, U15	4		LMV431BIMF/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	DBZ0003A
U9, U16	2		LM5170QPHPRQ1	Texas Instruments	IC, Controller, Bi-Directional	PQFP-G48
U10, U11, U12, U13, U17, U18	6		LM26LVCISD-145/NOPB	Texas Instruments	1.6V Factory Preset Temperature Switch and Temperature Sensor, 6-pin LLP, Pb-Free	SDB06A

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