

## PMP40261 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C3	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 $\mu$ F, 50 V,+/- 10%, X7R, 0603	0603
C11, C12, C13, C14, C41	5	0.47uF	R46KI347050P0K	Kemet	CAP, Film, 0.47 $\mu$ F, X2 275 VAC, +/- 10%, TH	18x8.5mm
C15, C16	2	1000pF	DE1E3KX102MA5BA01	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 20%, E, Disc, 8x12mm	Disc, 8x12mm
C17, C18	2	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Radial D8x5mm	Radial D8x5mm
C27, C28, C29, C30	4	150uF	450BXW150MEFC18X45	Rubycon	CAP, AL, 150 uF, 450 V, +/- 20%, TH	D18xL45mm
C31	1	0.022uF	ECWF6223JL	Panasonic	CAP, Film, 0.022 $\mu$ F, 630 V,+/- 5%, TH	12.5x6.2mm
C32	1	47uF	EEU-FC1V470	Panasonic	CAP, AL, 47 $\mu$ F, 35 V, +/- 20%, AEC-Q200 Grade 2, TH	D6.3xL11.2mm
C40, C43, C165, C181	4	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 $\mu$ F, 50 V,+/- 10%, X7R, 0805	0805
C42, C44, C146, C159, C164, C178, C179, C180	8	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 $\mu$ F, 50 V,+/- 10%, X7R, 0603	0603
C151	1	470pF	06031C471KAT2A	AVX	CAP, CERM, 470 pF, 100 V,+/- 10%, X7R, 0603	0603
C152	1	0.15uF	C1608X7R1E154K080AA	TDK	CAP, CERM, 0.15 $\mu$ F, 25 V,+/- 10%, X7R, 0603	0603
C153	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 $\mu$ F, 50 V,+/- 10%, X7R, 0603	0603
C154, C155	2	3300pF	06031C332JAT2A	AVX	CAP, CERM, 3300 pF, 100 V,+/- 5%, X7R, 0603	0603
C156, C157	2	470pF	06031C471JAT2A	AVX	CAP, CERM, 470 pF, 100 V,+/- 5%, X7R, 0603	0603
C158	1	100pF	0603ZC101KAT2A	AVX	CAP, CERM, 100 pF, 10 V,+/- 10%, X7R, 0603	0603
C160, C162	2	330pF	C0603C331K5RACTU	Kemet	CAP, CERM, 330 pF, 50 V,+/- 10%, X7R, 0603	0603
C161, C163	2	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0603	0603
D1, D2	2	1000V	GBJ2510-F	Diodes Inc.	Diode, Switching-Bridge, 1000 V, 25 A, TH	Diode Bridge, TH
D3, D4	2	650V	SCS220AMC	Rohm	Diode, Schottky, 650 V, 20 A, TH	TO-220-2
D10, D11, D12, D13	4	600V	US1J-13-F	Diodes Inc.	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D14, D15	2	200V	RF071M2S	Rohm	Diode, Ultrafast, 200 V, 1 A, SOD-123	SOD-123
D16, D82	2	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.3 A, SOD-123	SOD-123
D21, D26	2	16V	BZT52B16-HE3-08	Vishay-Semiconductor	Diode, Zener, 16 V, 410 mW, AEC-Q101, SOD-123	SOD-123
D50	1	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
D51	1	30V	BAT54-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D65	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.3A, SOD-123	SOD-123
F1	1		HDP500 12A250V	Shenzhen Deer Electronics Co	Fuse, 12 A, 250 VAC, TH	21x5.6mm
H2	1		2345-PMP40261	Suzhou Baojieer	Heat Sink, 201x110x15mm	Heat Sink, 201x110x15mm
J1	1		1-1318301-2	TE Connectivity	Polarized Header, 7.92 mm, 2x1, Tin, TH	TH Header
J2	1		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block
J3	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
K1	1		G2RL-14-E DC12	Omron Electronic Components	Relay, SPDT (1 Form C), 16 A, 12 V, TH	28.8x12.5mm
L1, L2, L3, L4	4	130uH	CY0239-AL	Coilcraft	Inductor, Toroid, 130 $\mu$ H, 0.018 ohm, TH	54x54mm
L5, L6	2	2.5mH	750343684	Würth Elektronik	Coupled inductor, 2.5mH, TH	36x36mm
L7	1	4mH	7448041104	Würth Elektronik	Coupled inductor, 4mH, ohm, TH	36x36mm

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L9, L10, L11, L12, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31	20	75 ohm	28L0138-10R-10	Laird-Signal Integrity Products	Ferrite Bead, 75 ohm @ 100 MHz, 5 A, D3.51xL4.45mm	D3.51xL4.45mm
L40	1	220uH	CY0203-BL	Coilcraft	Inductor, Toroid, 220 µH, 0.018 ohm, TH	37.5x37.5mm
Q1, Q3	2	600V	IPW60R060C7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 35 A, TO-247	TO-247
Q5	1	60V	2N7002K-T1-E3	Vishay-Siliconix	MOSFET, N-CH, 60 V, 0.3 A, SOT-23	SOT-23
Q6	1	-30V	AO3401A	AOS	MOSFET, P-CH, -30 V, -4 A, SOT-23	SOT-23
Q7	1	40 V	MMBT4401-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
Q10, Q12	2	50 V	PBSS4250X,115	Nexperia	Transistor, NPN, 50 V, 2 A, SOT-89	SOT-89
Q11, Q13	2	50 V	PBSS5250X,115	Nexperia	Transistor, PNP, 50 V, 2 A, SOT-89	SOT-89
R1, R2, R3, R4, R5, R6, R32, R33, R350, R351, R381, R382	12	1.00Meg	CRCW12061M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R10, R13	2	4.70	RC1206FR-074R7L	Yageo America	RES, 4.70, 1%, 0.25 W, 1206	1206
R11, R16	2	68	CRCW120668R0JNEA	Vishay-Dale	RES, 68, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R15, R25, R47, R388	4	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, 0805	0805
R21, R54	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R30, R31, R334, R335, R379, R380	6	3.3Meg	RC1206FR-073M3L	Vishay-Dale	RES, 3.3 M, 1%, 0.25 W, 1206	1206
R41, R45, R316	3	10.0	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
R51	1	5.10k	RC0603FR-075K1L	Yageo America	RES, 5.10 k, 1%, 0.1 W, 0603	0603
R52, R53, R55	3	12.0k	RC0603FR-0712KL	Yageo America	RES, 12.0 k, 1%, 0.1 W, 0603	0603
R92, R93, R94, R95	4	0	5108	Keystone	RES, 0, 1%, 0.5 W, 1206	1206
R315	1	2.20	RC1206FR-072R2L	Yageo America	RES, 2.20, 1%, 0.25 W, 1206	1206
R323, R327	2	1.50k	CRCW12061K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.25 W, 1206	1206
R324, R328	2	3.30k	RC0603FR-073K3L	Yageo America	RES, 3.30 k, 1%, 0.1 W, 0603	0603
R325, R329	2	43.0	RC1206FR-0743RL	Yageo America	RES, 43.0, 1%, 0.25 W, 1206	1206
R326, R330	2	1.0k	CRCW08051K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.125 W, 0805	0805
R331	1	47.0k	CRCW060347K0FKEA	Vishay-Dale	RES, 47.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R332, R337	2	4.7k	KTR10EZPF4701	Vishay-Dale	RES, 4.7 k, 1%, 0.125 W, 0805	0805
R333, R338	2	62k	KTR10EZPF6202	Panasonic	RES, 62 k, 1%, 0.125 W, 0805	0805
R339	1	24.0k	RC0603FR-0724KL	Yageo America	RES, 24.0 k, 1%, 0.1 W, 0603	0603
R340	1	91.0k	RC0603FR-0791KL	Yageo America	RES, 91.0 k, 1%, 0.1 W, 0603	0603
R341	1	13.0k	CRCW060313K0FKEA	Vishay-Dale	RES, 13.0 k, 1%, 0.1 W, 0603	0603
R342	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R343, R344	2	3.90k	CRCW06033K90FKEA	Vishay-Dale	RES, 3.90 k, 1%, 0.1 W, 0603	0603
R345	1	4.7	CRCW08054R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.125 W, 0805	0805
R346	1	62.0k	RC0603FR-0762KL	Yageo America	RES, 62.0 k, 1%, 0.1 W, 0603	0603
R347	1	22.0k	ERJ-3EKF2202V	Panasonic	RES, 22.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R348	1	56.0k	RG1608P-563-B-T5	Susumu Co Ltd	RES, 56.0 k, 0.1%, 0.1 W, 0603	0603
R349	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R377, R385, R386, R387	4	3.3k	ERJ-6GEYJ332V	Panasonic	RES, 3.3 k, 5%, 0.125 W, 0805	0805
R378	1	12k	CRCW080512K0JNEA	Vishay-Dale	RES, 12 k, 5%, 0.125 W, 0805	0805

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R383	1	360k	CRCW0805360KJNEA	Vishay-Dale	RES, 360 k, 5%, 0.125 W, 0805	0805
R384	1	51.0k	RC1206FR-0751KL	Yageo America	RES, 51.0 k, 1%, 0.25 W, 1206	1206
RT1, RT2	2	5	SCK205R0MSBY502	TKS	Thermistor NTC, 5 ohm, 20%, D20xT6mm	D20xT6mm
RT3	1	10k ohm	NCP18XH103J03RB	MuRata	Thermistor NTC, 10k ohm, 5%, 0603	0603
T1, T2	2	80mH	CS4200V-01L	Coilcraft	Transformer , Current sense, 80 mH, TH	Transformer, 770x780x570 mil
U1	1		UCC28070PWR	Texas Instruments	Two-Phase Interleaved CCM PFC Controller, PW0020A (TSSOP-20)	PW0020A
U4	1		TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U5	1		LM293AD	Texas Instruments	Dual Comparator, D0008A	D0008A
C22	0	220pF	DE1B3KX221KN4AP01F	MuRata	CAP, CERM, 220 pF, X1 250 VAC/Y1 300 VAC, +/- 10%, B, 8x7mm	8x7mm
C80, C81, C82, C83, C84, C85	0	100pF	CK45-R3AD101KAGRA	TDK	CAP, CERM, 100 pF, 1000 V,+/- 10%, R, AEC-Q200 Grade 1, 6x5mm	6x5mm
D20, D23, D25, D27	0	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.3A, SOD-123	SOD-123
D24, D28	0	16V	BZT52B16-HE3-08	Vishay-Semiconductor	Diode, Zener, 16 V, 410 mW, AEC-Q101, SOD-123	SOD-123
L8	0	0	750343684	Würth Elektronik	Shorted	36x36mm
L15	0	75 ohm	28L0138-10R-10	Laird-Signal Integrity Products	Ferrite Bead, 75 ohm @ 100 MHz, 5 A, D3.51xL4.45mm	D3.51xL4.45mm
Q2, Q4	0	600V	IPW60R060C7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 35 A, TO-247	TO-247
R14, R43, R46, R49	0	68	CRCW120668R0JNEA	Vishay-Dale	RES, 68, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R42, R48	0	33.0	RC1206FR-0733RL	Yageo America	RES, 33.0, 1%, 0.25 W, 1206	1206
R44, R50	0	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, 0805	0805
R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91	0	39.0	ERJ-8ENF39R0V	Panasonic	RES, 39.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R96, R97	0	0	5108	Keystone	RES, 0, 1%, 0.5 W, 1206	1206
RV1	0		B72214S0421K101	TDK	SIOV Metal Oxide Varistor 420V, 4.5kA, TH	15.5x6.1mm

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