

## PMP31092 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3, C4, C6, C27	6	10uF	C3225X5R1H106K250AB	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1210	1210
C5	1	2.2uF	GRM21BR71C225KA12L	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	805
C7	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	805
C8	1	0.22uF	GRM21AR72A224KAC5L	MuRata	CAP, CERM, 0.22 uF, 100 V, +/- 10%, X7R, 0805	805
C9	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
C10, C11	2	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	603
C12, C15, C22, C25, C26, C37	6	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	603
C13	1	2700pF	C1808C272KGRACTU	Kemet	CAP, CERM, 2700 pF, 2000 V, +/- 10%, X7R, 1808	1808
C14	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	603
C16	1	100pF	GRM31A5C2J101JW01D	MuRata	CAP, CERM, 100 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C17, C39	2	47uF	EEH3C1K470P	Panasonic	CAP, Polymer Hybrid, 47 uF, 80 V, +/- 20%, 36 mohm, 10x10 SMD	10x10
C18, C19, C20	3	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C21	1	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	805
C23	1	0.1uF	GRM31CR72E104KW03L	MuRata	CAP, CERM, 0.1 uF, 250 V, +/- 10%, X7R, 1206	1206
C24	1	0.056uF	GRM188R71C563KA01D	MuRata	CAP, CERM, 0.056 uF, 16 V, +/- 10%, X7R, 0603	603
C29	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C30	1	100pF	C1608C0G1H101J080AE	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C31, C33, C100	3	0.01uF	C0603C103J1RACTU	Kemet	CAP, CERM, 0.01 uF, 100 V, +/- 5%, X7R, 0603	603
C34, C36	2	1000pF	GRM1885C1E102JA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 5%, C0G/NP0, 0603	603
C38	1	DNP	DNP	MuRata	DNP	603
D1	1	MBRS3200T3G	MBRS3200T3G	ON Semiconductor	Diode, Schottky, 200 V, 3 A, SMB	SMB
D2	1	B130LAW-7-F	B130LAW-7-F	Diodes Inc.	Diode, Schottky, 30 V, 1 A, SOD-123	SOD-123
D3, D7, D14	3	CMP5H-3CE	CMP5H-3CE	Central Semiconductor	Diode, Schottky, 40 V, 0.2 A, SOT-23	SOT-23
D4, D15, D18, D19	4	MBR10200UPS	MBR10200UPS	MCC	Diode, Schottky, 200 V, 10 A, TO-277B	TO-277
D6	1	13V	MMSZ5243B-7-F	Diodes Inc.	Diode, Zener, 13 V, 500 mW, SOD-123	SOD-123
D8, D12	2	DFLS1100-7	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
D9	1	CMP5H-3AE	CMP5H-3AE	Central Semiconductor	Diode, Schottky, 40 V, 0.2 A, SOT-23	SOT-23
D11	1	11V	MMSZ5241B-7-F	Diodes Inc.	Diode, Zener, 11 V, 500 mW, SOD-123	SOD-123
D16	1	DNP	DNP	Diodes Inc.	DNP	SOD-323
D100, D101	2	BAS20HT1G	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
L2	1	2.2mH	LPS5030-225MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 2.2 mH, 0.08 A, 11 ohm, SMD	LPS5030
L4	1	47uH	SER2211-473MED	Coilcraft	Inductor, Shielded E Core, Ferrite, 47 uH, 4.4 A, 0.0107 ohm, SMD	SER2211
P1, P3, P5, P6, P8	5		3104-2-00-34-00-00-08-0	Mill-Max	PCB Pin, Swage Mount, TH	3104-2
P2	1		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Minature
P4, P7	2		3231-2-00-34-00-00-08-0	Mill-Max	PCB Pin, Swage Mount, TH	3231-2
Q1	1	FZT493TA	FZT493TA	Diodes Incorporated	Transistor, NPN, 100 V, 1 A, SOT-223	SOT-223
Q3	1	FCX690BTA	FCX690BTA	Diodes Inc.	Transistor, NPN, 45 V, 1 A, SOT-89	SOT-89
Q6, Q7, Q8, Q9	4	BSC065N06LS5ATMA1	BSC065N06LS5ATMA1	Infineon	MOSFET N-CHANNEL 60V 64A 8TDSO8	SuperSO8
Q12, Q13	2	DMN5L06DMK-7	DMN5L06DMK-7	Diodes Inc.	MOSFET, 2-CH, N-CH, 50 V, 0.305 A, AEC-Q101, SOT-26	SOT-26
R3	1	100k	ERJ-6GEYJ104V	Panasonic	RES, 100 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R4	1	5.1k	ERJ-6GEYJ512V	Panasonic	RES, 5.1 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R6	1	49.9k	ERJ-6ENF4992V	Panasonic	RES, 49.9 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R7	1	1.91k	CRCW06031K91FKEA	Vishay-Dale	RES, 1.91 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R8	1	20	ERJ-6GEYJ200V	Panasonic	RES, 20, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R9	1	2.05k	RC0603FR-072K05L	Yageo	RES, 2.05 k, 1%, 0.1 W, 0603	603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R11	1	100	CRCW2010100RJNEF	Vishay-Dale	RES, 100, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R13	1	1.69k	CRCW06031K69FKEA	Vishay-Dale	RES, 1.69 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R14	1	24k	CRCW060324K0JNEA	Vishay-Dale	RES, 24 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R15	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R16	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R17	1	10k	CRCW251210K0JNEG	Vishay-Dale	RES, 10 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R18	1	3.24	RC0805FR-073R24L	Yageo America	RES, 3.24, 1%, 0.125 W, 0805	805
R19	1	49.9	ERJ-3EKF49R9V	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R22	1	680k	RC0603FR-07680KL	Yageo	RES, 680 k, 1%, 0.1 W, 0603	603
R23	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R24	1	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R27	1	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.25 W, AEC-Q200 Grade 0, 0603	603
R28, R100	2	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	603
R29	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R30	1	1.82k	CRCW06031K82FKEA	Vishay-Dale	RES, 1.82 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R33	1	22.1k	RC0603FR-0722K1L	Yageo	RES, 22.1 k, 1%, 0.1 W, 0603	603
R34, R35, R36	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R37	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
T1	1	ZB1292-BL	ZB1292-BL	Coilcraft	High Frequency Planar Transformer	ZB1292-BL
T2	1	PA1005.100NL	PA1005.100NL	Pulse Engineering	SMT Current Sense Transformer	P82xx
U1	1	LM5045MHX/NOPB	LM5045MHX/NOPB	Texas Instruments	Full-Bridge PWM Controller with Integrated MOSFET Drivers, 28-pin TSSOP-EP, 2500 Reel	PWP0028A
U3	1	TCMT1107	TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
U4	1	LM8261M5X/NOPB	LM8261M5X/NOPB	Texas Instruments	RRIO, High Output Current & Unlimited Cap Load Op Amp, DBV0005A (SOT-23-5)	DBV0005A
U5	1	LM4041B12IDBZT	LM4041B12IDBZT	Texas Instruments	Precision Micropower Shunt Voltage Reference, 0.2% accuracy, 1.2 V, 15 ppm / degC, 12 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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