

PMP30046 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C19	2	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C2	1	4.7uF	GRM188R61E475KE11D	MuRata	CAP, CERM, 4.7 μ F, 25 V, +/- 10%, X5R, 0603	0603
C3	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C4	1	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 μ F, 25 V, +/- 20%, X5R, 0805	0805
C5, C10, C17	3	0.47uF	GRM155R61A474KE15D	MuRata	CAP, CERM, 0.47 μ F, 10 V, +/- 10%, X5R, 0402	0402
C6	1	22uF	C1608X5R0J226M080AC	TDK	CAP, CERM, 22 μ F, 6.3 V, +/- 20%, X5R, 0603	0603
C7	1	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C8	1	4700pF	C1005X7R1E472K	TDK	CAP, CERM, 4700 pF, 25 V, +/- 10%, X7R, 0402	0402
C9	1	4.7uF	C2012X5R1H475K125AB	TDK	CAP, CERM, 4.7 μ F, 50 V, +/- 10%, X5R, 0805	0805
C11	1	10uF	GRM21BR6YA106KE43L	MuRata	CAP, CERM, 10 μ F, 35 V, +/- 10%, X5R, 0805	0805
C12, C15, C18	3	4.7uF	0603ZD475KAT2A	AVX	CAP, CERM, 4.7 μ F, 10 V, +/- 10%, X5R, 0603	0603
C13	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402	0402
C14	1	150uF	6TPE150MAPB	Panasonic	CAP, Tantalum Polymer, 150 μ F, 6.3 V, +/- 20%, 0.025 ohm, 3.5x1.9x2.8mm SMD	3.5x1.9x2.8mm
C16	1	0.22uF	C1005X5R1A224K050BC	TDK	CAP, CERM, 0.22 μ F, 10 V, +/- 10%, X5R, 0402	0402
C20, C21	2	1000uF	EEU-FR1V102B	Panasonic	CAP, AL, 1000 μ F, 35 V, +/- 20%, 0.018 ohm, TH	D12.5xL20mm
C22, C23, C24, C25, C26, C27	6	470uF	6TPE470MAZU	Panasonic	CAP, Tantalum Polymer, 470 μ F, 6.3 V, +/- 20%, 0.035 ohm, 7343-20 SMD	7343-20
C101	1	100pF	GCM1885C2A101JA16D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C102	1	0.01uF	C1005X7R1C103K050BA	TDK	CAP, CERM, 0.01 μ F, 16 V, +/- 10%, X7R, 0402	0402
D1, D3	2	40V	DFLS240-7	Diodes Inc.	Diode, Schottky, 40 V, 2 A, AEC-Q101, PowerDI123	PowerDI123
D2	1	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
D101	1	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
D102	1	30V	RB080L-30TE25	Rohm	Diode, Schottky, 30 V, 5 A, SMA	SMA
J1	1		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
J2, J4, J6, J8, J9, J11	6		800-10-002-10-001000	Mill-Max	Header, 100mil, 2x1, TH	Header, 2x1, 100mil, TH
J3, J5, J7, J10	4		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
L1	1	1.5uH	0420CDMCCDS-1R5MC	Sumida	Inductor, Shielded, Metal Composite, 1.5 μ H, 4.9 A, 0.046 ohm, SMD	4.4x4.2mm
L2, L3	2	4.7uH	0420CDMCCDS-4R7MC	Sumida	Inductor, Shielded, Metal Composite, 4.7 μ H, 2.5 A, 0.105 ohm, SMD	4.4x4.2mm
Q1	1	100V	CSD19537Q3	Texas Instruments	MOSFET, N-CH, 100 V, 50 A, DQG0008A	DQG0008A
R1, R5, R20, R102	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
R2	1	75k	CRCW040275K0JNED	Vishay-Dale	RES, 75 k, 5%, 0.063 W, 0402	0402
R3	1	150k	CRCW0402150KJNED	Vishay-Dale	RES, 150 k, 5%, 0.063 W, 0402	0402
R4, R29, R35, R36	4	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R6	1	110k	CRCW0402110KFKED	Vishay-Dale	RES, 110 k, 1%, 0.063 W, 0402	0402
R7	1	11.3k	CRCW040211K3FKED	Vishay-Dale	RES, 11.3 k, 1%, 0.063 W, 0402	0402
R8	1	4.87k	CRCW04024K87FKED	Vishay-Dale	RES, 4.87 k, 1%, 0.063 W, 0402	0402
R9, R12, R16, R21, R24, R31	6	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R10, R23, R26	3	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
R11, R22	2	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
R13	1	392k	CRCW0402392KFKED	Vishay-Dale	RES, 392 k, 1%, 0.063 W, 0402	0402
R14	1	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, 0402	0402

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R15	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, 0402	0402
R17	1	18k	CRCW040218K0JNED	Vishay-Dale	RES, 18 k, 5%, 0.063 W, 0402	0402
R18	1	31.6k	CRCW040231K6FKED	Vishay-Dale	RES, 31.6 k, 1%, 0.063 W, 0402	0402
R19	1	0.33	MCR25JZHFLR330	Rohm	RES, 0.33, 1%, 0.5 W, 1210	1210
R25	1	215k	CRCW0402215KFKED	Vishay-Dale	RES, 215 k, 1%, 0.063 W, 0402	0402
R27	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
R28	1	78.7k	CRCW040278K7FKED	Vishay-Dale	RES, 78.7 k, 1%, 0.063 W, 0402	0402
R30	1	25.5k	CRCW040225K5FKED	Vishay-Dale	RES, 25.5 k, 1%, 0.063 W, 0402	0402
R32	1	698k	CRCW0402698KFKED	Vishay-Dale	RES, 698 k, 1%, 0.063 W, 0402	0402
R33	1		3362P-1-103LF	Bourns	TRIMMER 10K OHM 0.5W PC PIN, TH	6.71x7.04m
R34	1	32.4k	CRCW040232K4FKED	Vishay-Dale	RES, 32.4 k, 1%, 0.063 W, 0402	0402
R101	1	18.2	CRCW060318R2FKEA	Vishay-Dale	RES, 18.2, 1%, 0.1 W, 0603	0603
TP1, TP4, TP11, TP16	4		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP3, TP5, TP7, TP10, TP12	6		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP6, TP13, TP15	3		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
TP8, TP9, TP14, TP17	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		TPS25940ARVCR	Texas Instruments	2.7 – 18V eFuse with True Reverse Blocking and DevSleep Support for SSDs, RVC0020A	RVC0020A
U2	1		TPS62130RGTT	Texas Instruments	Buck Step Down Regulator with 3 to 17 V Input and 0.9 to 6 V Output, -40 to 85 degC, 16-Pin QFN (RGT), Green (RoHS & no Sb/Br)	RGT0016C
U3	1		TPS61170QDRVRQ1	Texas Instruments	1.2A High Voltage Boost Converter in 2x2mm SON Package, DRV0006A	DRV0006A
U4	1		LM43603DSUR	Texas Instruments	3.5 - 36V 2A, 3A Step-Down Converters with Low Quiescent Current, DSU0016A	DSU0016A
U5	1		TPS3700DSER	Texas Instruments	Window Comparator With Internal Reference for Overvoltage and Undervoltage Detection, DSE0006A	DSE0006A

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