

## PMP22419 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP22419	Any	Printed Circuit Board	
C3A, C7A	2	33uF	T521D336M035ATE065	Kemet	CAP, TA, 33 uF, 35 V, +/- 20%, 0.065 ohm, SMD	7343-31
C6A, C14A, C17A, C19A, C31A, C32A, C33A, C35A, C36A, C37A, C38A, C41A, C42A, C46A	14	10uF	C2012X5R1V106K085AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	805
C8A, C9A	2	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603
C10A	1	1000pF	C1005NP01H102J050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C11A, C13A	2	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	603
C12A	1	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	603
C15A	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, 0603	603
C16A, C34A, C49A	3	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
C21A, C25A, C26A	3	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0402	402
C22A, C23A	2	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
C27A	1	33pF	GRM1555C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C28A	1	15pF	GRM1555C1H150JA01D	MuRata	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C29A	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402	402
C30A	1	1200pF	C0402C122J5GACTU	Kemet	CAP, CERM, 1200 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C43A, C44A	2	0.033uF	CGA2B3X7R1H333K050BB	TDK	CAP, CERM, 0.033 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402
C50A, C51A	2	0.1uF	0402BB104KW500	Passive Plus	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	402
D1A	1	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
D3A, D4A	2	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
J1A, J2A, J3A	3		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J4A	1		22053041	Molex	Connector Header Through Hole, Right Angle 4 position 0.100" (2.54mm)	HDR4
J5A	1		5102	Keystone	Shorting Jumper, 5.375mm, 2 Position, Tin, SMT	Shorting Jumper, 5.375mm, 2 Position, SMT
JP1A, JP2A	2		5-146261-1	TE Connectivity	Header, 100mil, 2x1, Gold, TH	Header, 2x1, 100mil
L1A	1		BMRHDY1010302R2MA1	Chilisin Electronics	2.2uH Shielded Wirewound Inductor 13A 9mOhm Max 10x10x3mm	SMT_IND_11MM2_10MM1
Q1A, Q2A	2	30V	CSD87355Q5D	Texas Instruments	MOSFET, 2-CH, N-CH, 30 V, 45 A, DQY0008A (LSON-CLIP-8)	DQY0008A
Q3A	1		AONR21307	Alpha & Omega Semiconductor	MOSFET P-CH 30V 3X3 DFN	DFN8
Q4A	1	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60 V, 0.26 A, SOT-23	SOT-23
R1A	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R4A	1	0.005	WSLP12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
R5A, R7A	2	4.99	CRCW04024R99FKED	Vishay-Dale	RES, 4.99, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402

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R6A	1	0.005	CSNL2010FT5L00	Stackpole Electronics Inc	RES, 0.005, 1%, 1.5 W, 2010	2010
R8A, R9A, R30A	3	10	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R10A	1	220k	RC0402FR-07220KL	Yageo America	RES, 220 k, 1%, 0.0625 W, 0402	402
R11A	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R12A	1	16.9k	CRCW040216K9FKED	Vishay-Dale	RES, 16.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R13A	1	105k	CRCW0402105KFKED	Vishay-Dale	RES, 105 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R15A	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R20A, R21A	2	3.9	CRCW12063R90JNEA	Vishay-Dale	RES, 3.9, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R24A	1	1	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R27A	1	383k	CRCW0402383KFKED	Vishay-Dale	RES, 383 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R28A	1	33.0k	RC0402FR-0733KL	Yageo America	RES, 33.0 k, 1%, 0.063 W, 0402	402
R29A, R32A	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R36A	1	10	ERJ-8ENF10R0V	Panasonic	RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
SH-JP1A	1	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
TP1A, TP2A	2		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP3A, TP4A, TP8A	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP5A, TP6A, TP7A, TP9A	4		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
U1A	1		BQ25720RSN	Texas Instruments	No description	WQFN32
U2A	1		LM3480IM3-3.3/NOPB	Texas Instruments	100 mA, Quasi Low-Dropout Linear Voltage Regulator, 3-pin SOT-23, Pb-Free	DBZ0003A
C1A, C2A	0	330pF	GRM188R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0603	603
C4A, C20A	0	33uF	T521D336M035ATE065	Kemet	CAP, TA, 33 uF, 35 V, +/- 20%, 0.065 ohm, SMD	7343-31
C5A	0	47uF	25SVPF47M	Panasonic	CAP, Aluminum Polymer, 47 uF, 25 V, +/- 20%, 0.03 ohm, F61 SMD	F61
C18A	0	0.01uF	0402B103K500CT	Walsin	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	402
C24A	0	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
C39A	0	10uF	C2012X5R1V106K085AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	805
C40A	0	0.1uF	0402BB104KW500	Passive Plus	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	402
C45A, C48A	0	0.018uF	GRM155R71H183KA12D	MuRata	CAP, CERM, 0.018 uF, 50 V, +/- 10%, X7R, 0402	402
C47A	0	0.068uF	CGA2B3X7R1H683K050BB	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402
D2A	0	20V	B220A-13-F	Diodes Inc.	Diode, Schottky, 20 V, 2 A, SMA	SMA
Q5A	0	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60 V, 0.26 A, SOT-23	SOT-23
Q6A	0	50 V	DCX124EK-7-F	Diodes Inc.	Transistor, NPN/PNP Pair, 50 V, 0.05 A, SC-74R	SC-74R
Q7A, Q8A	0	-30V	DMP3035SFG-7	Diodes Inc.	MOSFET, P-CH, -30 V, -8.5 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
R2A, R3A	0	56	CRCW060356R0JNEA	Vishay-Dale	RES, 56, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R14A, R23A, R33A	0	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R16A, R17A, R18A, R25A, R26A, R34A, R35A	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R19A	0	10	ERJ-8ENF10R0V	Panasonic	RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R22A	0	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R31A	0	2.0Meg	CRCW04022M00JNED	Vishay-Dale	RES, 2.0 M, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
Z1A	0	26V	SMAJ26CA	Littelfuse	Diode, TVS, Bi, 26 V, 42.1 Vc, 400 W, 9.5 A, SMA (non-polarized)	SMA (non-polarized)

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