

PMP21966 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP21966	Any	Printed Circuit Board	
C1, C2	2	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
C3	1	330pF	GRM155R72A331KA01D	MuRata	CAP, CERM, 330 pF, 100 V, +/- 10%, X7R, 0402	0402
C4	1	560pF	GRM1555C1H561JA01D	MuRata	CAP, CERM, 560 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C5, C14	2	0.33uF	GRM155R61A334KE15D	MuRata	CAP, CERM, 0.33 uF, 10 V, +/- 10%, X5R, 0402	0402
C6	1	3.3pF	GRM1555C1E3R3CA01D	MuRata	CAP, CERM, 3.3 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C7, C15	2	120pF	GRM1555C1H121JA01D	MuRata	CAP, CERM, 120 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C8, C9, C11, C12, C17, C18	6	220pF	CGA2B2C0G1H221J050BA	TDK	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C10, C16, C19	3	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
C13, C24, C64, C89, C103, C104	6	0.1uF	CGA2B3X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C21	1	100uF	UUD1A101MCL1GS	Nichicon	CAP, AL, 100 uF, 10 V, +/- 20%, 0.44 ohm, SMD	6.3x5.8
C22, C23, C62, C63, C87, C88	6	2.2uF	GRM188R71A225KE15J	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C25, C26, C27, C65, C66, C67, C86, C90, C91, C92, C94, C96	12	22uF	TMK325B7226KMHT	Taiyo Yuden	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C28, C68, C93	3	1000pF	GRM155R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	0402
C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43	15	100uF	GCM32ED70G107M	MuRata	CAP, CERM, 100 uF, 4 V, +/- 20%, X7T, 1210	1210
C44, C46, C84	3	0.068uF	C1005X7R1H683K050BB	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, 0402	0402
C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83	30	22uF	GCM21BD70J226ME36L	MuRata	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X7T, AEC-Q200 Grade 1, 0805	0805
C97, C98, C99	3	330uF	EMVY250ADA331MHA0G	Chemi-Con	CAP, AL, 330 uF, 25 V, +/- 20%, 0.3 ohm, SMD	HA0
C100, C101, C102	0	470uF	EEF-GX0E471R	Panasonic	CAP, Aluminum Polymer, 470 uF, 2.5 V, +/- 20%, 0.003 ohm, SMD 7.3x1.9x4.3mm SMD	SMD_7.3x1.9x4.3mm
C105, C106, C107, C108	4	4.7uF	GRM188Z71A475ME15D	MuRata	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X7R, 0603	0603
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1, J2, J7	3		HTSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 100mil, 2x1, TH
J3	1		1729018	Phoenix Contact	TERM BLOCK 2POS 5mm, TH	10x10x8.1 mm
J4, J5	2		U.FL-R-SMT-1(01)	Hirose Electric Co. Ltd.	Receptacle, Ultra Miniature Coaxial, Male Pin, 50 ohm, SMT	Ultra small CO-AX SMD

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J6	1		5103308-1	TE Connectivity	Header (shrouded), 100mil, 5x2, Gold, TH	5x2 Shrouded header
L4, L5, L6	3	190nH	IHLP4040DZERR19M11	Vishay-Dale	Inductor, Shielded, Powdered Iron, 190 nH, 40 A, 0.0008 ohm, SMD	IHLP-4040DZ
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1	1	25V	CSD16408Q5	Texas Instruments	MOSFET, N-CH, 25 V, 113 A, DQH0008A (VSON-CLIP-8)	DQH0008A
R1, R5, R13, R15	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R2, R6, R29, R64, R67, R68, R69	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7	1	15.4k	CRCW040215K4FKED	Vishay-Dale	RES, 15.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R8	1	1.87k	CRCW04021K87FKED	Vishay-Dale	RES, 1.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R9	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10, R19, R27, R40, R47, R54, R61	7	1.00	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R14, R16, R24	3	150k	ERJ-2RKF1503X	Panasonic	RES, 150 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R17	1	56.2k	CRCW040256K2FKED	Vishay-Dale	RES, 56.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R18, R22, R35, R43, R50, R57	6	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R21	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R26	1	97.6k	CRCW040297K6FKED	Vishay-Dale	RES, 97.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R30	1	24.3k	CRCW040224K3FKED	Vishay-Dale	RES, 24.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R36, R39, R45	3	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R38, R42, R48	3	6.04k	CRCW04026K04FKED	Vishay-Dale	RES, 6.04 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R52, R55, R58	3	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R62, R63, R70, R71	4	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R65	1	0.01	CSRN2010FK10L0	Stackpole Electronics Inc	RES, 0.01, 1%, 1 W, 2010	2010
R66	1	30.9k	CRCW040230K9FKED	Vishay-Dale	RES, 30.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
RT1, RT2, RT3	3	10k	NCP15XH103F03RC	MuRata	Thermistor NTC, 10.0k ohm, 1%, 0402	0402
T1, T2	2		CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
TP1	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP2, TP4, TP6, TP8, TP10	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP5, TP7, TP9, TP11	5		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS59632RHB	Texas Instruments	3-2-1 Phase D-Cap+ Step-Down Driverless Controller for Tegra CPUs with Serial VID Control and DVFS, RSM0032B (VQFN-32)	RSM0032B
U2, U3, U4	3		FDMF5833-F085	ON Semiconductor	Smart Power Stage (SPS) Module with Integrated Thermal Warning and Thermal Shutdown	PQFN31
U5	1		TPS7A8001DRBR	Texas Instruments	Low-Noise, High-Bandwidth PSRR, 1A Low-Dropout (LDO) Linear Regulator, DRB0008A (VSON-8)	DRB0008A
C20	0	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
C45, C85, C95	0	1000pF	GRM1555C1H102FA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
L1, L2, L3	0	180nH	PA3784.181HL	Pulse Engineering	Inductor, 180 nH, 55 A, 0.00018 ohm, SMD	10x8x8mm
L7	0	4.7uH	IHLP2525AHER4R7M01	Vishay-Dale	Inductor, Shielded, Ferrite, 4.7 uH, 3 A, 0.078 ohm, SMD	6.47x1.8x6.86
R3, R4, R51, R53, R56	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11	0	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R20, R23, R25	0	150k	ERJ-2RKF1503X	Panasonic	RES, 150 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R28, R31, R32, R33, R34, R44	0	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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R37, R41, R46, R49	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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