

PMP20660 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBA1	1		LM5175EVM-HP PCB	Used in BOM report	LM5175EVM-HP PCB	N/A
C1	1	470uF	EMVH500ADA471MMH0S	Nippon Chemi-Con	CAP, Al Electrolytic, 470uF, 50V, +/-, 0.15Ohm ESR, 125C, SMT	18x16.5mm
C2, C3, C4, C5	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
C6, C7, C8, C9, C10, C11	6	22uF	GRM32ER71C226ME18L	MuRata	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, 1210	1210
C12	1	1uF	GRM219R71E105KA88D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0805	0805
C13, C14, Cx1, Cx2	4	330uF	16SVP330M	Sanyo	CAP, OS-CON, 330 µF, 16 V, +/- 20%, 0.016 ohm, 10x10.3 SMD	10x10.3
C15	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	0603L
C16	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
C17, C21	2	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C18, C19, C24, C25	4	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X7R, 0603	0603
C20, C28, C29, C30	4	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603L
C22, C27	2	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603
C23	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
D1, D2	2	70V	B170-13-F	Diodes Inc.	Diode, Schottky, 70 V, 1 A, SMA	SMA
D3, D4, D5	3	60V	PMEG6010CEJ,115	NXP Semiconductor	Diode, Schottky, 60 V, 1 A, SOD-323F	SOD-323F
Dx1, Dx2	2	8.2V	MMSZ5237BS-7-F	Diodes Inc.	Diode, Zener, 8.2 V, 200 mW, SOD-323	SOD-323
Dx3	1	75V	LL4148-13	Diodes Inc.	Diode, Standard, 75V, 150mA, MINI-MELF	MINI-MELF
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, J3, J4	4		108-0740-001	Emerson Network Power	Standard Banana Jack, Uninsulated, 15A	Banana Jack
L1	1	1.5uH	IHLP6767GZER1R5M01	Vishay Dale	Inductor, Molded, Shielded, 1.5uH, 42Arms, 65Asat, 1.88mOhm, SMT	
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"H x 0.200"W
Q1, Q2, Q3	3	60V	BSC028N06NS	Infineon Technologies	MOSFET, N-CH, 60 V, 100 A, PG-TDSON-8	PG-TDSON-8
Q5, Q6, Q7, Q8	4	25V	CSD16414Q5	Texas Instruments	MOSFET, N-CH, 25 V, 100 A, VSON-CLIP-8	DQH0008A
Qx1	1	60V	2N7002BK,215	NXP USA	MOSFET, N-CH, 60V, 350mA, 1.6 Ohm @ 10Vgs, SOT-23	SOT-23-3
R1a, R1b	2	0.01	RL7520WT-R010-F	Susumu Co Ltd	RES, 0.01, 1%, 2 W, 3008	3008
R2, R3, R4, R5, R15, R17, R24, R25, R26, R27	10	0	RC0603JR-070RL	Yageo America	RES, 0 ohm, 5%, 0.1W, 0603	0603L
R6, R8	2	100	RC0603FR-07100RL	Yageo America	RES, 100 ohm, 1%, 0.1W, 0603	0603L
R7a, R7b	2	0.006	WSHM28186L000FEA	Vishay Dale	RES, 0.006 ohm, 1%, 7W, 2818	2818
R9, R11	2	10.0	RC0603FR-0710RL	Yageo America	RES, 10.0 ohm, 1%, 0.1W, 0603	0603L
R10, R23	2	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0k ohm, 1%, 0.1W, 0603	0603L
R13	1	287k	CRCW0603287KFKEA	Vishay-Dale	RES, 287 k, 1%, 0.1 W, 0603	0603
R14	1	280k	RC0603FR-07280KL	Yageo America	RES, 280k ohm, 1%, 0.1W, 0603	0603L
R16, R21	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R18	1	107k	CRCW0603107KFKEA	Vishay-Dale	RES, 107 k, 1%, 0.1 W, 0603	0603
R19	1	93.1k	RC0603FR-0793K1L	Yageo America	RES, 93.1 k, 1%, 0.1 W, 0603	0603
R20	1	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R22	1	20.0k	RC0603FR-0720KL	Yageo America	RES, 20.0k ohm, 1%, 0.1W, 0603	0603L
Rx1a, Rx1b	2	0.47	RL73K3AR47J	TE	RES, 0.47 ohm, 5%, 1W, 2512	2512
Rx2	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
Rx3	1	150	CRCW0603150RFKEA	Vishay-Dale	RES, 150, 1%, 0.1 W, 0603	0603
S1, S2, S3	3		CJS-1201TA	Copal Electronics	Slide SW, SPDT 0.1A 50VDC	SW, 3.1x2.5x6 mm

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP1, TP3	2	Red	5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
TP2, TP4	2	Black	5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
TP5	1	PGOOD	5007	Keystone	Test Point, Compact, White, TH	White Compact Testpoint
TP6, TP7	2	White	5007	Keystone	Test Point, Compact, White, TH	White Compact Testpoint
U1	1		LM5175PWPR	Texas Instruments	42V Wide VIN 4-Switch Synchronous Buck-Boost Controller, PWP0028F	PWP0028F
C26	0	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	0603L
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
Q4	0	60V	BSC028N06NS	Infineon Technologies	MOSFET, N-CH, 60 V, 100 A, PG-TDSON-8	PG-TDSON-8
R12	0	0	RC0603JR-070RL	Yageo America	RES, 0 ohm, 5%, 0.1W, 0603	0603L

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