

PMP30600-AH REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	68uF	EEHZC1H680P	Panasonic	CAP, Polymer Hybrid, 68 uF, 50 V, +/- 20%, 30 ohm, 8x10 SMD	8x10
C2, C5, C6, C7, C8, C9	6	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C3, C4, C10, C18, C19	5	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C11, C12	2	220uF	EEHZC1E221P	Panasonic	CAP, Polymer Hybrid, 270 uF, 25 V, +/- 20%, 27 ohm, 8x10 SMD	8x10
C13, C14	2	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
C15	1	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	603
C16	1	2.2uF	GCM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
C17	1	0.068uF	GRM188R71C683KA01D	MuRata	CAP, CERM, 0.068 uF, 16 V, +/- 10%, X7R, 0603	603
C20	1	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, COG/NP0, 0603	603
C21	1	3900pF	GRM188R71E392KA01D	MuRata	CAP, CERM, 3900 pF, 25 V, +/- 10%, X7R, 0603	603
C22	1	6800pF	GRM188R71E682KA01D	MuRata	CAP, CERM, 6800 pF, 25 V, +/- 10%, X7R, 0603	603
C23	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100 pF, 25 V, +/- 10%, X7R, 0603	603
C24	1	1000pF	C1608X7R2A102K080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	603
D1	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
J1	1		6.91214E+11	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
J2	1		6.91237E+11	Würth Elektronik	Terminal Block, 5.08mm, 2x1, R/A, TH	Terminal Block, 5.08mm, 2x1, R/A, TH
J3	1		GBC10SABN-M30	Sullins Connector Solutions	Header, 2.54mm, 10x1, Gold, SMT	Header, 2.54mm, 10x1, SMT
L1	1	560nH	XAL6030-561MEB	Coilcraft	Inductor, Shielded, Composite, 560 nH, 22 A, 0.00331 ohm, AEC-Q200 Grade 1, SMD	IND_6.4x3.1x6.6
L2	1	3uH	XAL1580-302MEB	Coilcraft	Inductor, Shielded, Composite, 3 uH, 34.4 A, 0.002619 ohm, SMD	15.2x8x16.2mm
Q1, Q2, Q3, Q4	4	40V	BSC032N04LS	Infineon Technologies	MOSFET, N-CH, 40 V, 73 A, PG-TDSON-8	PG-TDSON-8
R1	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
R2	1	22.1k	RC0603FR-0722K1L	Yageo	RES, 22.1 k, 1%, 0.1 W, 0603	603
R3, R6, R7	3	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R4	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, 0603	603
R5, R8	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	603
R9	1	36.5k	RC0603FR-0736K5L	Yageo America	RES, 36.5 k, 1%, 0.1 W, 0603	603
R10	1	1.37k	RC0603FR-071K37L	Yageo	RES, 1.37 k, 1%, 0.1 W, 0603	603
R11	1	10.5k	CRCW060310K5FKEA	Vishay-Dale	RES, 10.5 k, 1%, 0.1 W, 0603	603
R12	1	2.00k	Y16362K00000F9R	Vishay Foil Resistors	RES, 2.00 k, 1%, 0.1 W, 0603	603
R13	1	5.23k	RC0603FR-075K23L	Yageo	RES, 5.23 k, 1%, 0.1 W, 0603	603
R14	1	49.9	RC0603FR-0749R9L	Yageo	RES, 49.9, 1%, 0.1 W, 0603	603
R15	1	3.3	ERJ-8RQF3R3V	Panasonic	RES, 3.30, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R16	1	174	RC0603FR-07174RL	Yageo	RES, 174, 1%, 0.1 W, 0603	603
TP1, TP3	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP4	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP5	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint

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TP6, TP7, TP8, TP9	4		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U1	1		LM5146QRGYRQ1	Texas Instruments	5.5-V to 100-V Synchronous Buck Controller With Wide Duty Cycle Range, RGY0020B (VQFN-20)	RGY0020B

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