

PMP30600-AL REV B 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, C7, C8, C9	4	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	1	330uF	EEHZC1E331P	Panasonic	CAP, Polymer Hybrid, 330 uF, 25 V, +/- 20%, 20 ohm, 10x10 SMD	10x10
C14	1	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
C15	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	603
C16	1	2.2uF	GRM21BR71C225KA12L	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	805
C17	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	603
C20	1	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C21	1	1800pF	GRM1885C1H182JA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C22	1	2700pF	GRM1885C1H272JA01D	MuRata	CAP, CERM, 2700 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C23	1	56pF	GRM1885C1H560JA01D	MuRata	CAP, CERM, 56 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C24	1	1500pF	GRM188R71H152KA01D	MuRata	CAP, CERM, 1500 pF, 50 V, +/- 10%, X7R, 0603	603
D1	1	40V	B340B-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMB	SMB
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	1uH	XAL6030-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 21.5 A, 0.01 ohm, SMD	IND 6.4x3.1x6.6
L2	1	4.7uH	XAL1010-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 24 A, 0.01 ohm, SMD	Inductor, 11.3x10x10mm
Q1, Q3	2	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, AEC-Q200 Grade 0, 0603	603
R2	1	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 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	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 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	2.74k	CRCW06032K74FKEA	Vishay-Dale	RES, 2.74 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R11	1	23.2k	CRCW060323K2FKEA	Vishay-Dale	RES, 23.2 k, 1%, 0.1 W, 0603	603
R12	1	4.42k	CRCW06034K42FKEA	Vishay-Dale	RES, 4.42 k, 1%, 0.1 W, 0603	603
R13	1	15.4k	CRCW060315K4FKEA	Vishay-Dale	RES, 15.4 k, 1%, 0.1 W, 0603	603
R14	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	603
R15	1	3.9	CRCW08053R90JNEA	Vishay-Dale	RES, 3.9, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R16	1	178	CRCW0603178RFKEA	Vishay-Dale	RES, 178, 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
TP6, TP7, TP8, TP9	4		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		LM5146QRGYRQ1	Texas Instruments	5.5-V to 100-V Synchronous Buck Controller With Wide Duty Cycle Range, RGY0020B (VQFN-20)	RGY0020B
C5, C6	0	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C12	0	330uF	EEHZC1E331P	Panasonic	CAP, Polymer Hybrid, 330 uF, 25 V, +/- 20%, 20 ohm, 10x10 SMD	10x10
C13	0	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
Q2, Q4	0	40V	BSC032N04LS	Infineon Technologies	MOSFET, N-CH, 40 V, 73 A, PG-TDSON-8	PG-TDSON-8

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