

PMP30600-TH REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	56uF	EEHZC1J560P	Panasonic	CAP, Polymer Hybrid, 47 uF, 80 V, +/- 20%, 36 ohm, 10x10 SMD	10x10
C2, C5, C6, C7, C8, C9	6	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 uF, 80 V, +/- 10%, X7R, 1210	1210
C3, C4, C10, C18	4	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	603
C11, C12	2	470uF	EEH-ZK1E471P	Panasonic	CAP, AL, 470 uF, 25 V, +/- 20%, AEC-Q200 Grade 1, SMD	D10xL10.2mm
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	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	603
C17	1	0.068uF	GRM188R71C683KA01D	MuRata	CAP, CERM, 0.068 uF, 16 V, +/- 10%, X7R, 0603	603
C19	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C20	1	27pF	GRM1885C2A270JA01D	MuRata	CAP, CERM, 27 pF, 100 V, +/- 5%, COG/NP0, 0603	603
C21	1	4700pF	GRM188R71C472KA01D	MuRata	CAP, CERM, 4700 pF, 16 V, +/- 10%, X7R, 0603	603
C22	1	6800pF	GCM1885C1H752GA	MuRata	CAP, CERM, 7500 pF, 25 V, +/- 2%, X7R, 0603	603
C23	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	603
C24	1	1500pF	GRM188R72A152KA01D	MuRata	CAP, CERM, 1500 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		691214110002	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
J2	1		691236510002	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, 18 A, 0.00618 ohm, AEC-Q200 Grade 1, SMD	IND_6.4x3.1x6.6
L2	1	10uH	XAL1510-103MEB	Coilcraft	Inductor, Shielded, Composite, 10 uH, 22 A, 0.0068 ohm, SMD	15.4 x 11 x 16.4mm
Q1, Q2	2	80V	BSC117N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 49 A, PG-TDSON-8	PG-TDSON-8
Q3, Q4	2	80V	BSC061N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 82 A, PG-TDSON-8	PG-TDSON-8
R1	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
R2	1	9.31k	CRCW06039K31FKEA	Vishay-Dale	RES, 9.31 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	1.30k	CRCW06031K30FKEA	Vishay-Dale	RES, 1.30 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	6.20k	RC0603FR-076K2L	Yageo America	RES, 6.20 k, 1%, 0.1 W, 0603	603
R14	1	47	RC0603FR-0747RL	Yageo	RES, 47.0, 1%, 0.1 W, 0603	603
R15	1	2	ERJ-14BQF2R0U	Panasonic	RES, 2.00, 1%, 0.5 W, AEC-Q200 Grade 0, 1210	1210
R16	1	196	CRCW0603196RFKEA	Vishay-Dale	RES, 196, 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

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
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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