

PMP30600-TL REV D Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	47uF	EEHZC1V470P	Panasonic	CAP, Polymer Hybrid, 47 uF, 35 V, +/- 20%, 60 ohm, 6.3x5.8 SMD	6.3x5.8
C2, C6, C7, C8, C9	5	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 uF, 80 V, +/- 10%, X7R, 1210	1210
C3, C4, C10	3	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	603
C5	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C11, C12	2	330uF	EEHZC1E331P	Panasonic	CAP, Polymer Hybrid, 330 uF, 25 V, +/- 20%, 20 ohm, 10x10 SMD	10x10
C13, C14	2	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 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
C18	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	603
C19	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C20	1	12pF	GRM1885C2A120JA01D	MuRata	CAP, CERM, 12 pF, 100 V, +/- 5%, C0G/NP0, 0603	603
C21	1	1800pF	GRM1885C1H182JA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C22	1	3300pF	GRM1885C1H332JA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C23	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C24	1	1000pF	C0805C102K1RACTU	Kemet	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0805	805
D1	1	60V	B360B-13-F	Diodes Inc.	Diode, Schottky, 60 V, 3 A, SMB	SMB
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, 21.5 A, 0.01 ohm, SMD	IND 6.4x3.1x6.6
L2	1	6.8uH	XAL1510-682MEB	Coilcraft	Inductor, Shielded, Composite, 6.8 uH, 26 A, 0.00417 ohm, SMD	15.4 x 11 x 16.4mm
Q1	1	80V	BSC117N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 49 A, PG-TDSON-8	PG-TDSON-8
Q2, Q3, Q4	3	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	13.7k	CRCW060313K7FKEA	Vishay-Dale	RES, 13.7 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, AEC-Q200 Grade 0, 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	12.7k	CRCW060312K7FKEA	Vishay-Dale	RES, 12.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R14	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	603
R15	1	5.1	RC1210JR-075R1L	Yageo	RES, 5.1, 5%, 0.5 W, 1210	1210
R16	1	402	CRCW0603402RFKEA	Vishay-Dale	RES, 402, 1%, 0.1 W, AEC-Q200 Grade 0, 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

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
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
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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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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