

## PMP30549 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBA1	1		SV601348A	Any	LM5176EVM-HP (SV601348A)	N/A
C1, C31	2	33uF	EEHZA1K330P	Panasonic	CAP, Polymer Hybrid, 33 $\mu$ F, 80 V,+/- 20%, 36 ohm, 10x10 SMD	10x10
C2, C3, C4, C5, C39	5	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 $\mu$ F, 100 V,+/- 10%, X7R, 1210	1210
C6, C7, C8, C9	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 $\mu$ F, 50 V,+/- 10%, X7R, 1210	1210
C12	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 $\mu$ F, 50 V,+/- 10%, X7R, 0805	0805
C13, C14	2	100uF	EEHZA1H101P	Panasonic	CAP, Polymer Hybrid, 100 $\mu$ F, 50 V,+/- 20%, 28 ohm, 10x10 SMD	10x10
C15, C23, C26	3	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	0603L
C16	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 $\mu$ F, 16 V, +/- 10%, X7R, 0805	0805
C17, C21	2	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C18, C19	2	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
C20, C30	2	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	0603L
C22	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 $\mu$ F, 25 V,+/- 10%, X7R, 0603	0603
C24	1	0.33uF	GRM188R71C334KA01D	MuRata	CAP, CERM, 0.33 $\mu$ F, 16 V, +/- 10%, X7R, 0603	0603
C25	1	0.22uF	GRM188R71H224KAC4D	MuRata	CAP, CERM, 0.22 $\mu$ F, 50 V,+/- 10%, X7R, 0603	0603
C27	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603
C28	1	560pF	GRM188R71H561KA01D	MuRata	CAP, CERM, 560 pF, 50 V,+/- 10%, X7R, 0603	0603
C29	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
C100	1	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
D1	1	60V	B360A-13-F	Diode Inc.	Diode, Schottky, 60 V, 3 A, SMA	SMA
D2	1	80V	B180-13-F	Diodes Inc.	Diode, Schottky, 80 V, 1 A, SMA	SMA
D3, D4, D5	3	100V	BAT46WJ,115	Nexperia	Diode, Schottky, 100 V, 0.25 A, SOD-323F	SOD-323F
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
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		575-8	Keystone	Standard Banana Jack, Uninsulated, 8.9mm	Keystone575-8
L1	1	33uH	XAL1510-333MEB	Coilcraft	Inductor, Shielded, Composite, 33 $\mu$ H, 8.6 Arms, 0.02 ohm, SMD	15.4 x 11 x 16.4mm
L2	1	2.2uH	XAL5030-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 $\mu$ H, 9.2 A, 0.01 ohm, SMD	5.3x31.x5.5mm
Q1, Q3	2	80V	BSC117N08NS5	Infineon Technologies	MOSFET, N-CH, 80 V, 49 A, PG-TDSON-8	PG-TDSON-8
Q5, Q7	2		BSC094N06LS5ATMA1	Infineon	MOSFET, N-CH, 60V, 47A, PG-TDSON-8	PG-TDSON-8
R1, R7	2	0.01	FCSL64R010FER	Ohmite	RES, 0.01, 1%, 2 W, 2512 WIDE	2512 WIDE
R2, R4, R17, R24, R26	5	0	RC0603JR-070RL	Yageo America	RES, 0 ohm, 5%, 0.1W, 0603	0603L
R6, R8, R16, R21	4	100	RC0603FR-07100RL	Yageo America	RES, 100 ohm, 1%, 0.1W, 0603	0603L
R9, R12	2	10.0	RC0603FR-0710RL	Yageo America	RES, 10.0 ohm, 1%, 0.1W, 0603	0603L
R10	1	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0k ohm, 1%, 0.1W, 0603	0603L
R11	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R13	1	475k	CRCW0603475KFKEA	Vishay-Dale	RES, 475 k, 1%, 0.1 W, 0603	0603
R14	1	196k	CRCW0603196KFKEA	Vishay-Dale	RES, 196 k, 1%, 0.1 W, 0603	0603
R15	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R18	1	38.3k	CRCW060338K3FKEA	Vishay-Dale	RES, 38.3 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	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
R22, R23	2	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R28	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
S1, S2, S3	3		CJS-1201TA	Copal Electronics	Slide SW, SPDT 0.1A 50VDC	SW, 3.1x2.5x6 mm
TP1, TP3	2	Red	5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint

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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		LM5176PWPR	Texas Instruments	55 V Wide VIN Synchronous 4-Switch Buck-Boost Controller, PWP0028C (TSSOP-28)	PWP0028C

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