

PMP20774 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB	1		PMP20774	Any	Printed Circuit Board	
C1, C2, Co5	3	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 µF, 50 V, +/- 10%, X7R, 1206	1206
C3, C5, C7, C11, C16, C19, C20, C21	8	0.1uF	GRM155R71H104ME14D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 20%, X7R, 0402	0402
C4	1	1uF	GRM155R70J105KA12D	MuRata	CAP, CERM, 1 µF, 6.3 V, +/- 10%, X7R, 0402	0402
C6, C12, C13, C14	4	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
C8	1	0.22uF	C1005X5R1E224M050BC	TDK	CAP, CERM, 0.22 µF, 25 V, +/- 20%, X5R, 0402	0402
C9, C15	2	0.022uF	GCM155R71H223KA55D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, COG/NP0, 0402	0402
C10	1	3300pF	GRM155R72A332KA01D	MuRata	CAP, CERM, 3300 pF, 100 V, +/- 10%, X7R, 0402	0402
C17	1	4.7uF	GRM21BR71E475KA73L	MuRata	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X7R, 0805	0805
C18	1	0.22uF	GRM155R71A224KE01D	MuRata	CAP, CERM, 0.22 µF, 10 V, +/- 10%, X7R, 0402	0402
C22, C24	2	560pF	GRM1555C1H561JA01D	MuRata	CAP, CERM, 560 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
C23	1	0.01uF	GCM155R71E103KA37D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0402	0402
Cin1	1	47uF	865080645012	Würth Elektronik	CAP, AL, 47 µF, 50 V, +/- 20%, SMD	D6.3xL7.7mm
Cin2, Cin3, Cin4, Co2, Co3, Co4	6	10uF	GRM32ER71H106MA12	MuRata	CAP, CERM, 10 µF, 50 V, +/- 20%, X7R, 1210	1210
Co1	1	100uF	865080445010	Würth Elektronik	CAP, AL, 100 µF, 25 V, +/- 20%, SMD	D6.3xL7.7mm
D1	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D2, D3	2	100V	BAS516.115	NXP Semiconductor	Diode, Switching, 100V, 0.25A, SOD-523	SOD-523
D4	1	8.2V	MMSZ5237BS-7-F	Diodes Inc.	Diode, Zener, 8.2 V, 200 mW, SOD-323	SOD-323
D5	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
J1	1		20-0000016-01	Lintes Technology	Connector, Receptacle, USB Type C, R/A, SMT	Connector, Receptacle, USB Type C, SMT
L1	1	50 ohm	BLM31SN500SN1L	MuRata	Ferrite Bead, 50 ohm @ 100 MHz, 12 A, 1206	1206
L2	1	60 ohm	FBMJ3216HM600-T	Taiyo Yuden	Ferrite Bead, 60 ohm @ 100 MHz, 4 A, 1206	1206
L3	1	5.5uH	744325550	Würth Elektronik	Inductor, Shielded Drum Core, Superflux, 5.5 µH, 10 A, 0.0112 ohm, SMD	WE-HC6
Q1, Q2, Q3, Q4	4	60V	BSZ042N06NS	Infineon Technologies	MOSFET, N-CH, 60 V, 17 A, PG-TSDSON-8	PG-TSDSON-8
Q5	1	30V	CSD17579Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 20 A, DNH0008A (VSONP-8)	DNH0008A
R1, R2, R3, R4	4	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R5	1	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, 0402	0402
R6	1	93.1k	CRCW040293K1FKED	Vishay-Dale	RES, 93.1 k, 1%, 0.063 W, 0402	0402
R7, R9	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R8	1	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
R10	1	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, 0402	0402
R11	1	20k	CRCW040220K0JNED	Vishay-Dale	RES, 20 k, 5%, 0.063 W, 0402	0402
R12	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
R13	1	6.65k	CRCW04026K65FKED	Vishay-Dale	RES, 6.65 k, 1%, 0.063 W, 0402	0402
R14	1	9.76k	CRCW04029K76FKED	Vishay-Dale	RES, 9.76 k, 1%, 0.063 W, 0402	0402
R15	1	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06 k, 1%, 0.063 W, 0402	0402
R16	1	9.53k	CRCW04029K53FKED	Vishay-Dale	RES, 9.53 k, 1%, 0.063 W, 0402	0402
R17	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
R18	1	120	ERJ-P08J121V	Panasonic	RES, 120, 5%, 0.667 W, AEC-Q200 Grade 0, 1206	1206
R19	1	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
R20	1	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
R21	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402

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R21	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
RS1	1	0.01	PRL1632-R010-F-T1	Susumu Co Ltd	RES, 0.01, 1%, 1 W, 0612	0612
Rg	1	3.0	CRCW04023R00JNED	Vishay-Dale	RES, 3.0, 5%, 0.063 W, 0402	0402
U1	1		LM5175RHFR	Texas Instruments	42-V Wide VIN Synchronous 4-Switch Buck-Boost Controller, RHF0028A	RHF0028A
U2	1		TPS25740BRGER	Texas Instruments	USB Type-C and USB PD Source Controller, RGE0024F (VQFN-24)	RGE0024F
C25	0	1uF	GRM155R70J105MA12D	MuRata	CAP, CERM, 1 μ F, 6.3 V, +/- 20%, X7R, 0402	0402

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