

Variant: 001  
Generated: 6/4/2026 9:09 AM  
TID #: N/A



# PMP23653 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PMP23653	Any	Printed Circuit Board	
2	C1, C6, C7, C28	4	10uF	GRM155R61A106ME44	MuRata	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0402	0402
3	C2	1	4.7uF	GRM188R6YA475KE15D	MuRata	CAP, CERM, 4.7 µF, 35 V, +/- 10%, X5R, 0603	0603
4	C3	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
5	C4, C5	2	330pF	GRM1555C1H331FA01J	MuRata	CAP, CERM, 330 pF, 50 V, +/- 1%, COG/NP0, 0402	0402
6	C8	1	0.22uF	GRM188R71H224KAC4D	MuRata	CAP, CERM, 0.22 µF, 50 V, +/- 10%, X7R, 0603	0603
7	C9	1	2.2uF	GRM155R61E225KE11D	MuRata	CAP, CERM, 2.2 µF, 25 V, +/- 10%, X5R, 0402	0402
8	C10, C15	2		16SEPC180MX	Panasonic	180µF 16V Aluminum - Polymer Capacitors Radial, Can 10mOhm 5000 Hrs @ 105°C	RADIAL
9	C11, C12, C13, C14	4	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 20%, X5R, 0805	0805
10	C16	1	10uF	C1608X5R1E106M080AC	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	0603
11	C17, C27, C30	3	0.1uF	CC0402KRX7R8BB104	Yageo	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0402	0402
12	C18, C22	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
13	C19, C20, C21	3	1uF	GRM155R61E105MA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 20%, X5R, 0402	0402
14	C23	1	47pF	GRM1555C1H470JZ01	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
15	C24	1	0.027uF	GRM155R61C273KA01D	MuRata	CAP, CERM, 0.027 µF, 16 V, +/- 10%, X5R, 0402	0402
16	C25	1	0.01uF	04023C103JA12A	AVX	CAP, CERM, 0.01 µF, 25 V, +/- 5%, X7R, 0402	0402
17	C26	1	2200pF	GRM155R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
18	D1, D3	2	100V	BAS16J,135	Nexperia	Diode, Switching, 100 V, 0.25 A, SOD-323F	SOD-323F
19	D2	1	22V	SMCJ22A-TR	STMicroelectronics	Diode, TVS, Uni, 22 V, 35.5 Vc, 1500 W, 44 A, SMC	SMC
20	D4	1	100V	MURA110T3G	ON Semiconductor	Diode, Ultrafast, 100 V, 2 A, SMA	SMA
21	D5	1		TSSW3U60	Taiwan Semiconductor Corp	DIODE SCHOTTKY 60V 3A SOD123W	SOD-123W
22	J1	1		USB4125-GF-A-0190	GCT	24 (6+18 Dummy) Position USB-C (USB TYPE-C) USB 2.0 Receptacle Connector	CONN_USB
23	J2	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
24	J6	1		GRPB061V/WVN-RC	Sullins Connector Solutions	Header, 50mil, 6x1, Gold, TH	Header, 6x1, TH
25	L1	1	21 ohm	FBMJ2125HM210NT	Taiyo Yuden	Ferrite Bead, 21 ohm @ 100 MHz, 6 A, 0805	0805
26	Q1	1	60V	CSD18543Q3A	Texas Instruments	MOSFET, N-CH, 60 V, 35 A, DNH0008A (VSONP-8)	DNH0008A
27	Q2	1	40V	CSD18514Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 50 A, DQJ0008A (VSONP-8)	DQJ0008A
28	R2, R4	2	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R3	1	43.2k	CRCW0402432KFKED	Vishay-Dale	RES, 43.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R5, R9, R18	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
31	R6, R7, R8, R25	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R10, R11, R12, R13	4	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R14	1	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R15	1	4.7	CRCW04024R70JNED	Vishay-Dale	RES, 4.7, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R16	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
36	R17	1	100	CRCW0805100RJNEA	Vishay-Dale	RES, 100, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
37	R19	1	60.4k	CRCW040260K4FKED	Vishay-Dale	RES, 60.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
38	R20	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
39	R21	1	10.5k	CRCW040210K5FKED	Vishay-Dale	RES, 10.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
40	R23	1	0.005	PMR50HZPFU5L00		RES 0.005 OHM 1% 1W 2010	
41	R26	1	301k	CRCW0402301KFKED	Vishay-Dale	RES, 301 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
42	R27	1	649k	CRCW0402649KFKED	Vishay-Dale	RES, 649 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
43	TP1, TP2, TP6	3		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
44	TP3, TP7	2		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
45	U1	1		TPS25730ADREFR	Texas Instruments	USB Type-C® and USB PD Controller With Integrated Power Switches Optimized for Power Applications	WQFN38
46	U2	1		TVS2200DRVR	Texas Instruments	22-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
47	U3	1		UCC24612-1DBVR	Texas Instruments	High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5)	DBV0005A
48	U4	1		LM25185PWPR	Texas Instruments	42-VIN primary side regulation flyback controller with low IQ and low EMI	HTSOP14
49	U5	1		TLV6703DDCR	Texas Instruments	High Voltage Comparator with Integrated Reference, DDC0006A (SOT-23-THIN-6)	DDC0006A
50	U6	1		TLV70933DBZR	Texas Instruments	150-mA 30-V low-dropout (LDO) linear regulator with 3.2-µA supply current 3-SOT-23 -40 to 125	SOT23-3
51	U7	1		ISO1640DWR	Texas Instruments	PC Digital Isolator 5000Vrms 2 Channel - 50kV/µs CMTI 16-SOIC (0.295", 7.50mm Width)	SOIC16
52	J3	0		851-43-006-10-001000	Mill-Max	Receptacle, 50mil, 6x1, Gold, TH	Receptacle, 6x1, 50mil, TH
53	J5, J7	0		GRPB032V/WVN-RC	Sullins Connector Solutions	Header, 50mil, 3x2, Gold, TH	Header, 3x2, 1.27mm, TH
54	R1, R24	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
55	R22	0	301k	CRCW0402301KFKED	Vishay-Dale	RES, 301 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
56	TP4, TP5	0		5002	Keystone Electronics	Test Point, Miniature, White, TH	White Miniature Testpoint