

## PMP23552 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C3, C8, C24	4	100nF	GCJ188R71E104KA12D	Murata	Cap Ceramic 0.1uF 25V X7R 10% Pad SMD 0603 Soft Termination +125°C Automotive T/R	0603
C2, C4, C10, C21	4	1uF	8.85012E+11	Würth Elektronik	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
C5, C6, C7	3	3.3uF	CKG57NX7T2E335M500JH	TDK	CAP, CERM, 3.3 uF, 250 V, +/- 20%, X7T, AEC-Q200 Grade 1, 6x5x5mm	6x5x5mm
C9	1	1000pF	C0603X102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C11	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C12, C13, C14, C15	4	22µF	T521X226M063ATE075	KEMET	Cap Tant Polymer 22uF 63VDC X CASE 20% (7.3 X 4.3 X 4mm) SMD 7343-43 0.075 Ohm 125C T/R	2917
C16, C17, C18	3	10uF	GXM32ER71H106KA10	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
C19	1	68pF	GCM1885C1H680JA16D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C20	1	3300pF	8.85012E+11	Würth Elektronik	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
C22	1	0.47uF	CGA3E3X7R1H474K080AE	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C25	1	1uF	CGA3E1X7R1V105K080AE	TDK	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C26, C27, C28, C31	4	100pF	C0603C101F5GACTU	Kemet	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
C29	1	4.7uF	C1210C475K5RACAUTO	Kemet	CAP, CERM, 4.7 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C30	1	0.1uF	HMK107B7104KAHT	Taiyo Yuden	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1	1	200V	SS1200-LTP	Micro Commercial Component	Diode, Schottky, 200 V, 1 A, SMA	SMA
D2, D3	2	60V	PMEG6010CEJ,115	Nexperia	Diode, Schottky, 60 V, 1 A, SOD-323F	SOD-323F
D4	1	30V	BAT54T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
D5	1	11V	MMSZ4698T1G	ON Semiconductor	Diode, Zener, 11 V, 500 mW, SOD-123	SOD-123
H1	1		V7700W	Assman WSW	Heatsink SOT-32, TO-220	ASMN_V7700W
H2, H3, H4, H5	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J3	1		61300611121	Würth Elektronik	Header, 2.54 mm, 6x1, Gold, TH	Header, 2.54mm, 6x1, TH
L1	1	15uH	XAL1513-153MED	Coilcraft	Power Inductors - SMD 15uH Shld 20% 22A 7.5mOhms AECQ2	SMT_IND_15MM2_16MM2
Q1, Q2, Q3	3		EPC7020GSH	EPC Space	MOSFET N-Channel 200 V 80A (Tc) Surface Mount 5-SMD	FSMD-G
Q4	1	450V	BUX85G	On Semiconductor	Bipolar (BJT) Transistor NPN 450 V 2 A 4MHz 50 W Through Hole TO-220	TO-220-3
R1	1	100	RC0603FR-07100RL	Yageo	RES, 100, 1%, 0.1 W, 0603	0603
R2	1	10	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
R3, R6, R24, R26	4	1	RC0603FR-071RL	Yageo	RES, 1.00, 1%, 0.1 W, 0603	0603
R4	1	511	RC0603FR-07511RL	Yageo	RES, 511, 1%, 0.1 W, 0603	0603
R5	1	49.9k	RC0603FR-0749K9L	Yageo	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R7, R9, R18, R19, R20, R23, R29	7	10.0k	M55342K12B10E0T	TT Electronics/IRC	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R8	1	27k	CRCW080527K0JNEA	Vishay-Dale	RES, 27 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R10	1	562k	RC0603FR-07562KL	Yageo	RES, 562 k, 1%, 0.1 W, 0603	0603
R11	1	3.01k	RC0603FR-073K01L	Yageo	RES, 3.01 k, 1%, 0.1 W, 0603	0603
R12	1	1.78k	RC0603FR-071K78L	Yageo	RES, 1.78 k, 1%, 0.1 W, 0603	0603
R13	1	12.7k	RC0603FR-0712K7L	Yageo	RES, 12.7 k, 1%, 0.1 W, 0603	0603

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R14	1	0.004	ERJ-M1WSF4M0U	Panasonic	RES, 0.004, 1%, 1 W, 2512	2512
R15	1	2.80k	RC0603FR-072K8L	Yageo	RES, 2.80 k, 1%, 0.1 W, 0603	0603
R16	1	20.0k	ERJ-3EKF2002V	Panasonic	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R21	1	422k	RC0603FR-07422KL	Yageo	RES, 422 k, 1%, 0.1 W, 0603	0603
R22, R25	2	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
R30, R36, R37, R45	4	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R31, R32	2	10.0Meg	RC0603FR-0710ML	Yageo	RES, 10.0 M, 1%, 0.1 W, 0603	0603
R33	1	51k	CRCW251251K0JNEG	Vishay-Dale	RES, 51 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R34, R35	2	2.00k	CRCW25122K00FKEG	Vishay-Dale	RES, 2.00 k, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
R38, R39, R43, R44	4	10.0k	RG1608P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R40, R47	2	200k	RT0603BRD07200KL	Yageo America	RES, 200 k, 0.1%, 0.1 W, 0603	0603
R41	1	15	RC0603FR-0715RL	Yageo	RES, 15.0, 1%, 0.1 W, 0603	0603
R42	1	274	RC0603FR-07274RL	Yageo	RES, 274, 1%, 0.1 W, 0603	0603
R46	1	2.43k	RC0603FR-072K43L	Yageo	RES, 2.43 k, 1%, 0.1 W, 0603	0603
TP1, TP5, TP6, TP9, TP10	5		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP4	2		5002	Keystone Electronics	Test Point, Miniature, White, TH	White Miniature Testpoint
TP3, TP7, TP8, TP11	4		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS7H6005MDCATSEP	Texas Instruments	TPS7H6005MDCATSEP	TSSOP56
U2	1		TPS7H5006MPWTSEP	Texas Instruments	Radiation-Hardened 2 MHz Current Mode PWM Controllers in Space Enhanced Plastic	TSSOP24
U3	1		OPA4H199MDYYTSEP	Texas Instruments	Space-enhanced-product, quad, 40-V 4.5-MHz rail-to-rail input and output operational amplifier 14-SOT-23-THIN -55 to +125	TSOT23-14
U4	1		LM117HRLQMLV	Texas Instruments	3-Terminal Adjustable Regulator, 3-pin TO-39	NDT0003A
C23	0	330pF	08052A331JAT2A	AVX	CAP, CERM, 330 pF, 200 V,+/- 5%, COG/NP0, 0805	0805
R17	0	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R27, R28	0	20	CRCW251220R0JNEG	Vishay-Dale	RES, 20, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512

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