

## PMP21152 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B1	1		PMP21152	Any	Printed Circuit Board	
C1, C2	2	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C3, C5	2	47uF	EEE-FK1H470XP	Panasonic	CAP, AL, 47 uF, 50 V, +/- 20%, 0.68 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D8
C4	1	470uF	B41896D6477M000	TDK	CAP, AL, 470 uF, 50 V, +/- 20%, 0.037 ohm, AEC-Q200 Grade 1, TH	D16xL20mm
C6, C7, C8, C16	4	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
C9, C11	2	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	0603
C10	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C12	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0805	0805
C13, C15	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
C14	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
D1	1	12V	MMSZ5242BS-7-F	Diodes Inc.	Diode, Zener, 12 V, 200 mW, SOD-323	SOD-323
D2, D3	2	45V	NTS245SFT1G	ON Semiconductor	Diode, Schottky, 45 V, 2 A, AEC-Q101, SOD-123FL	SOD-123FL
D4, D5	2	40V	ZLLS400QTA	Diodes Inc.	Diode, Schottky, 40 V, 0.52 A, AEC-Q101, SOD-323	SOD-323
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, J8	2		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
J2, J3, J4, J5, J6, J7	6		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
L1, L2	2	10uH	744071100	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 10 uH, 3.1 A, 0.028 ohm, SMD	8x4.3x8mm
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1, Q2, Q3	3	-40V	DMP4025LSS-13	Diodes Inc.	MOSFET, P-CH, -40 V, -6 A, AEC-Q101, SOIC-8	SOIC-8
Q4, Q5	2	60V	NVMFS5C682NLT1G	ON Semiconductor	MOSFET, N-CH, 60 V, 25 A, AEC-Q101, SO-8FL	SO-8FL
Q6	1	60V	2N7002W-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.115 A, SOT-323	SOT-323
R1, R4, R10	3	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R2, R3	2	7.5	CRCW12067R50JNEA	Vishay-Dale	RES, 7.5, 5%, 0.25 W, 1206	1206
R5, R6, R12, R14	4	1.0	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.1 W, 0603	0603
R7	1	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, 0603	0603
R8	1	0.01	CSRN2512FK10L0	Stackpole Electronics Inc	RES, 0.01, 1%, 2 W, 2512	2512
R9	1	470k	CRCW0603470KJNEA	Vishay-Dale	RES, 470 k, 5%, 0.1 W, 0603	0603
R11	1	47	CRCW060347R0JNEA	Vishay-Dale	RES, 47, 5%, 0.1 W, 0603	0603
R13	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
R15	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R16	1	41.2k	CRCW060341K2FKEA	Vishay-Dale	RES, 41.2 k, 1%, 0.1 W, 0603	0603
R17	1	12k	CRCW060312K0JNEA	Vishay-Dale	RES, 12 k, 5%, 0.1 W, 0603	0603
SH-J1, SH-J2	2		60900213421	Würth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
TP1, TP2, TP3, TP9, TP11	5		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP4, TP5, TP6	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP7, TP8, TP10, TP12	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		LM5150RUMQ1	Texas Instruments	Wide VIN Automotive Low IQ Boost Controller, RUM0016C (WQFN-16)	RUM0016C
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

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