

PMP30790 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.015uF	GRM21BR72A153MA01L	MuRata	CAP, CERM, 0.015 uF, 100 V, +/- 20%, X7R, 0805	0805
C2, C3, C4, C23	4	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
C5	1	0.1uF	GRM155R71C104JA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0402	0402
C6, C7, C8, C9, C10, C11	6	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C12, C13	2		HHXB160ARA471MJA0G	United Chemi-Con	Cap Aluminum Polymer 470uF 16VDC 20% (10 X 10mm) SMD 0.018 Ohm 2600mA 5000h 105C Automotive T/R	RADIAL
C14	0	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	0805
C15	1	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
C16	1	1000pF	GRM188R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	0603
C19	1	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
C18	1	22000000uF	JUMT1226MHD	Nichicon	CAP, Electric Double Layer, 22000000 uF, 2.7 V, +/- 20%, 0.07 ohm, TH	Dia 16mm
C20	1	0.01uF	GRM188R71C103KA01D	MuRata	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0603	0603
C21	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
C22	1	4.7uF	GRM32ER71H475KA88L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1210	1210
C24, C27	2	1000pF	GRM188R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C25	1	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
C26	1	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
D1	1	35V	MBRB1535CTPBF	International Rectifier	Diode, Schottky, 35 V, 15 A, DDPAK	DDPAK
D2, D3	2	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
D4	1	2.7V	BZT52C2V7T-7	Diodes Inc.	Diode, Zener, 2.7 V, 300 mW, SOD-523	SOD-523
J1, J2	2		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
L1	1	680nH	XAL1060-681MEB	Coilcraft	Inductor, Shielded, Composite, 680 nH, 33.9 A, 0.0014 ohm, AEC-Q200 Grade 1, SMD	Inductor, 10x6x11.3mm
L2	1	10uH	LPS4018-103MRB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 10 uH, 1.25 A, 0.18 ohm, SMD	LPS4018
Q1	1		IAUC120N04S6N010ATMA1	Infineon	Trans Mosfet N-ch 40V 120A 8-PIN Pg-tdson T/R	TDSON8
Q2	1	-60V	SQJ415EP-T1_GE3	Vishay-Semiconductor	MOSFET, P-CH, -40 V, -30 A, AEC-Q101, PowerPAK_SO-8L	PowerPAK_SO-8L
Q3	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
Q4	1	50V	RUC002N05HZGT116	Rohm	MOSFET, N-CH, 50 V, 0.2 A, AEC-Q101, SOT-23	SOT-23
R1	1	0.82	CSR1206FTR820	Stackpole Electronics Inc	RES, 0.82, 1%, 0.5 W, 1206	1206
R2	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	0	1.0	CRCW12061R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R4	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5, R7, R18, R26	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6	1	2.00	CRCW06032R00FKEA	Vishay-Dale	RES, 2.00, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8	1	1.40k	CRCW06031K40FKEA	Vishay-Dale	RES, 1.40 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	301	CRCW0603301RFKEA	Vishay-Dale	RES, 301, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10, R11	2	0.0015	ERJ-M1WTF1M5U	Panasonic	RES, 0.0015, 1%, 1 W, 2512	2512
R12	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	909	CRCW0603909RFKEA	Vishay-Dale	RES, 909, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14, R15	2	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R16, R19	2	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R17, R24	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R20	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R21	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R22, R23	2	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R25	1	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R27	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
S1	1		G13AP	NKK Switches	Switch, Toggle, SPDT 1Pos, TH	7 X 11 X4.5 mm
T1, T2	2		CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
TP1, TP2, TP7, TP8	4		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP3, TP4, TP6, TP9	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP5	1		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
U1	1		LM5155QDSSRQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
U2	1		TPS61071TDCCRQ1	Texas Instruments	Automotive Catalog Adjustable, 600-mA Switch, 90% Efficient PWM Boost Converter, DDC0006A (SOT-23-T-6)	DDC0006A
U3	1		TL431AQDBZRQ1	Texas Instruments	Automotive Catalog Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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