

**PMP40183 REV E1 Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	1000pF	GRM31A7U2J102JW31D	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 5%, U2J, 1206	1206
C2	1	0.047uF	B32921C3473K	TDK	CAP, Film, 0.047 µF, 630 V, +/- 10%, TH	B32921_11mm
C3, C4	2	10uF	UCY2G100MPD1TD	Nichicon	CAP, AL, 10 µF, 400 V, +/- 20%, TH	D10xL16
C5	1	22uF	EKXG401ELL220MK20S	Chemi-Con	CAP, AL, 22 µF, 400 V, +/- 20%, TH	12.5x20mm
C6, C7, C8	3	680uF	APSG200ELL681MJB5S	Chemi-Con	CAP, Aluminum Polymer, 680 µF, 20 V, +/- 20%, 0.012 ohm, TH	10x11.5mm
C9, C17	2	10uF	C1206C106K3RACTU	Kemet	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206_190	1206_190
C10	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C11	1	2200pF	08051C222JAT2A	AVX	CAP, CERM, 2200 pF, 100 V, +/- 5%, X7R, 0805	0805
C12	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 µF, 50 V, +/- 5%, X7R, 0603	0603
C13	1	4.7uF	C3216X7R1E475K	TDK	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X7R, 1206	1206
C14	1	0.1uF	C0805C104K5RACAUTO	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 0, 0805	0805
C15	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C16	1	220pF	DE1B3KX221KB4BP01F	MuRata	CAP, CERM, 220 pF, X1 250 VAC/Y1 300 VAC, +/- 20%, E, Cap, 8x11x10mm	Cap, 8x11x10 mm
C18	1	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
C19	1	0.22uF	06033D224KAT2A	AVX	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X5R, 0603	0603
C20	1	DNP	DNP	DNP	DNP	DNP
C21, C22, C23, C24	4	100pF	06033C101KAT2A	AVX	CAP, CERM, 100 pF, 25 V, +/- 10%, X7R, 0603	0603
D1	1	800V	3KBP08M-E4/45	Vishay-Semiconductor	Diode, Switching-Bridge, 800 V, 3 A, TH	KBPM
D2	1	100V	MBR1H100SFT3G	ON Semiconductor	Diode, Schottky, 100 V, 1 A, SOD-123FL	SOD-123FL
D3	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D4	1	600V	ES1J-LTP	Micro Commercial Component	Diode, Superfast Rectifier, 600 V, 1 A, SMA	SMA
D5	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D6	1	11V	BZT52C11-7-F	Diodes Inc.	Diode, Zener, 11 V, 500 mW, SOD-123	SOD-123
D7	1	30V	BAT43WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D8	1	DNP	DNP	Vishay-Semiconductor	Diode, Zener, 3.3 V, 500 mW, SOD-123	SOD-123
F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250 V, TH	8x8.5x4mm
J1, J2	2	Blue	5117	Keystone	Test Point, Miniature, Blue, TH	Blue Miniature Testpoint
J3	1		632 723 300 011	Würth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
J4, J5	2		PPPC042LFBN-RC	Sullins Connector Solutions	Connector, Receptacle, 100mil, 4x2, Gold plated, TH	4x2 Header Receptacle
L1	1	100uH	7447462101	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 100 µH, 0.8 A, 0.457 ohm, TH	D6 x 8.5mm
L2	1	270nH	74477450027	Würth Elektronik	Inductor, Drum Core, Ferrite, 270 nH, 8.2 A, 0.0044 ohm, SMD	WE-PD2-MS
L3	1	220uH	744873221	Würth Elektronik	Coupled inductor, 220 µH, 1.6 A, 0.54 ohm, SMD	SMD, 12.5x12.5mm
Q1, Q2	2	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A	DQG0008A
Q3	1	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
Q4	1	100V	CSD19532Q5B	Texas Instruments	MOSFET, N-CH, 100 V, 17 A, SON 5x6mm	SON 5x6mm
Q5	1	650V	AOW25S65	AOS	MOSFET, N-CH, 650 V, 25 A, TO-262	TO-262

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Q6, Q7, Q8, Q9, Q10	5	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
R1	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
R2, R5	2	1.00Meg	ERJ-8ENF1004V	Panasonic	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R3, R8	2	100k	CRCW1206100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, 1206	1206
R4, R34, R39, R45, R46, R47, R48	7	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R6, R7, R64	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R9, R10	2	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R11	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
R12	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R13	1	392k	CRCW0603392KFKEA	Vishay-Dale	RES, 392 k, 1%, 0.1 W, 0603	0603
R14, R17, R20, R21	4	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R15	1	39k	CRCW060339K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.1 W, 0603	0603
R16	1	365k	CRCW0603365KFKEA	Vishay-Dale	RES, 365 k, 1%, 0.1 W, 0603	0603
R18	1	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
R19	1	300k	CRCW0603300KFKEA	Vishay-Dale	RES, 300 k, 1%, 0.1 W, 0603	0603
R22, R25, R28, R30, R36, R62, R66	7	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R23	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R24, R31	2	470	CRCW0603470RJNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, 0603	0603
R26, R27	2	0.51	CRM1206-FX-R510ELF	Bourns	RES, 0.51, 1%, 0.5 W, 1206	1206
R29	1	47.0k	CRCW060347K0FKEA	Vishay-Dale	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R32	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R33	1	56.2k	CRCW060356K2FKEA	Vishay-Dale	RES, 56.2 k, 1%, 0.1 W, 0603	0603
R35, R61	2	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R38, R41	2	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
R40	1	24.3k	CRCW060324K3FKEA	Vishay-Dale	RES, 24.3 k, 1%, 0.1 W, 0603	0603
R43	1	619k	CRCW0603619KFKEA	Vishay-Dale	RES, 619 k, 1%, 0.1 W, 0603	0603
R44	1	18.2k	CRCW060318K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.1 W, 0603	0603
T1	1		750343446	Würth Elektronik	RM8, Transformer	22x22x18mm
U1	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U2	1		UCC24636DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A
U3	1		FOD817AS	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMT	DIP-4L Gullwing
U4	1		TLV431ACDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U8	1		TL431ACDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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