

## PMP40937 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B1	1		PMP40937	Any	Printed Circuit Board	
C1, C2, C4, C5, C6, C12, C13, C15, C16, C17, C33	11	10uF	CL21A106KAFN3NE	Samsung Electro-Mechanics	CAP, CERM, 10 µF, 25 V,+/- 10%, X5R, 0805	0805
C3, C7, C11, C14, C19, C21, C24, C27, C29, C30, C31, C32	12	0.1uF	GRM155R71H104ME14D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 20%, X7R, 0402	0402
C8	1	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 µF, 16 V,+/- 10%, X5R, 0603	0603
C9, C10	2	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	0402
C18, C20, C23, C25, C26	5	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 µF, 25 V,+/- 20%, X5R, 0603	0603
C22	1	10pF	GRM1555C1H100FA01D	MuRata	CAP, CERM, 10 pF, 50 V,+/- 1%, C0G/NP0, 0402	0402
D7	1	100V	BAS316,115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
D8	1	Red	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
F1	1		0452005.MRL	Littelfuse	Fuse, 5 A, 125VAC/VDC, SMD	SloBlo452
J1, J3, J5	3		B2B-XH-A(LF)(SN)	JST Manufacturing	Header (Shrouded), 2.5mm, 2x1, Tin, TH	Header (Shrouded), 2.5mm, 2x1, TH
J2	1		61300411121	Würth Elektronik	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54mm, 4x1, TH
J4	1		61300611121	Würth Elektronik	Header, 2.54 mm, 6x1, Gold, TH	Header, 2.54mm, 6x1, TH
L1	1	2.2uH	SPM6530T-2R2M	TDK	Inductor, Shielded, Ferrite, 2.2 uH, 8.2 A, 0.019 ohm, SMD	SMD 7.1x3.0x6.5mm
L2	1	22uH	74437346220	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 22 uH, 1.9 A, 0.165 ohm, SMD	7.30x2.80x6.60mm
Q1	1	30V	CSD17581Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DNH0008A (VSONP-8)	DNH0008A
R1, R2, R10, R25, R27, R29, R31	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R3, R4	2	100	RC0402FR-07100RL	Yageo America	RES, 100, 1%, 0.063 W, 0402	0402
R5, R6	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R7, R11	2	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
R8	1	27k	CRCW040227K0JNED	Vishay-Dale	RES, 27 k, 5%, 0.063 W, 0402	0402
R9	1	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
R12, R13, R17	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R18	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, 0402	0402
R20	1	20k	CRCW040220K0JNED	Vishay-Dale	RES, 20 k, 5%, 0.063 W, 0402	0402
R21	1	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
R22	1	2.20k	RC0402FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.063 W, 0402	0402
R28	1	169k	CRCW0402169KFKED	Vishay-Dale	RES, 169 k, 1%, 0.063 W, 0402	0402
R30	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, 0402	0402
R32	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R33	1	43k	CRCW040243K0JNED	Vishay-Dale	RES, 43 k, 5%, 0.063 W, 0402	0402

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
S1	1		B3U-1100P		Switch, Normally open, 2.3N force, 200k operations, SMD	
TP1	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP6	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP3, TP4	2		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP5	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1	1		BQ25672RQM	Texas Instruments	I2C Controlled, 1-4 Cell, 5-A Buck Battery Charger with Dual-Input Selector and Integrated ADC	VQFN-HR-29
U2	1		TPS54302DDCR	Texas Instruments	4.5-V to 28-V Input, 3-A Output, EMI Friendly Synchronous Step-Down Converter, DDC0006A (SOT-23-T-6)	DDC0006A
U3	1		TLV73333PQDBVRQ1	Texas Instruments	Automotive capacitor-free 300-mA LDO regulator with foldback current limit for portable devices, DBV0005A (SOT-23-5)	DBV0005A
U4	1		TPS2121RUXR	Texas Instruments	2.7V-22V, 4A, 50mohm Priority Power MUX, RUX0012A (VQFN-HR-12)	RUX0012A
D1, D2	0	19V	SMBJ20CA	Littelfuse	Diode, TVS, Bi, 19 V, SMB	SMB
D5, D6	0	5.6V	BZT52C5V6T-7	Diodes Inc.	Diode, Zener, 5.6 V, 300 mW, SOD-523	SOD-523
R19	0	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
R24	0	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
R26	0	169k	CRCW0402169KFKED	Vishay-Dale	RES, 169 k, 1%, 0.063 W, 0402	0402

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