

## PMP40569 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP40569	Any	Printed Circuit Board	
C1	1	47uF	UCD1J470MNL1GS	Nichicon	CAP, AL, 47 uF, 63 V, +/- 20%, SMD	8*10
C2, C3	2	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
C4	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C5, C20	2	10uF	GRM32ER71J106MA12L	MuRata	CAP, CERM, 10 uF, 63 V, +/- 20%, X7R, 1210	1210
C6	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C7, C22	2	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
C8	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C9	1	0.1uF	GRM319R72A104KA01D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 1206	1206
C11	1	1000pF	GR443QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
C12	1	680pF	GRM2195C2A681JA01D	MuRata	CAP, CERM, 680 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
C14, C16, C19	3	47uF	GRM31CR61A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X5R, 1206	1206
C15	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
C17, C18	2	470uF	UCL1A471MNL1GS	Nichicon	CAP, AL, 470 uF, 10 V, +/- 20%, 0.08 ohm, SMD	8*10
C21, C23	2	2.2uF	GRM155R61C225KE11D	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0402	0402
D1	1	10V	MM3Z10VST1G	ON Semiconductor	Diode, Zener, 10 V, 300 mW, SOD-323	SOD-323
D2, D3	2	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
D4	1	30V	BAT54WSTR	SMC Diode Solutions	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D5	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D6	1	22V	MM3Z22VST1G	ON Semiconductor	Diode, Zener, 22 V, 300 mW, SOD-323	SOD-323
D7	1	100V	BAT46W-7-F	Diodes Inc.	Diode, Schottky, 100 V, 0.15 A, SOD-123	SOD-123
D10, D11	2	75V	1N4148WX-TP	Micro Commercial Component	Diode, Switching, 75 V, 0.15 A, SOD-323	SOD-323
J1, J2	2		691214110002	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
L1	1	0.47uH	744040640047	Würth Elektronik	Inductor, Shielded, Ferrite, 0.47 uH, 6.85 A, 0.006 ohm, SMD	SMD, Body 6x6mm
Q1	1	100V	ZVN3310FTA	Diodes Inc.	MOSFET, N-CH, 100 V, 0.1 A, SOT-23	SOT-23
Q2	1	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
Q3	1	150V	TPH1500CNH	Toshiba Semiconductor	MOSFET, N-CH, 150 V, 38 A, SOP-Advance-8	SOP-Advance-8
Q4	1	40V	CSD18514Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 50 A, DQJ0008A (VSONP-8)	DQJ0008A
R1	1	150k	RC0603FR-07150KL	Yageo	RES, 150 k, 1%, 0.1 W, 0603	0603
R2	1	6.80k	RC0402FR-076K8L	Yageo America	RES, 6.80 k, 1%, 0.0625 W, 0402	0402
R3	1	86.6k	CRCW040286K6FKED	Vishay-Dale	RES, 86.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4	1	100k	CRG0805F100K	TE Connectivity	RES, 100 k, 1%, 0.125 W, 0805	0805
R5, R17	2	1.21k	CRCW04021K21FKED	Vishay-Dale	RES, 1.21 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6, R8	2	5.10k	RC1206FR-075K1L	Yageo America	RES, 5.10 k, 1%, 0.25 W, 1206	1206
R7	1	15.0	CRCW080515R0FKEA	Vishay-Dale	RES, 15.0, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R9, R19	2	200	CRCW0402200RFKED	Vishay-Dale	RES, 200, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10	1	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
R12	1	0.03	WSLP0805R0300FEB	Vishay-Dale	RES, 0.03, 1%, 0.5 W, 0805	0805
R13	1	10.0	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
R15	1	3.92k	CRCW04023K92FKED	Vishay-Dale	RES, 3.92 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	4.70	RC1206FR-074R7L	Yageo America	RES, 4.70, 1%, 0.25 W, 1206	1206
R18	1	2.40k	ERJ-2RKF2401X	Panasonic	RES, 2.40 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R20	1	20.0	CRCW040220R0FKED	Vishay-Dale	RES, 20.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R21, R22	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R23	1	0	RC0805JR-070RL	Yageo America	RES, 0, 5%, 0.125 W, 0805	0805
R24	1	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402

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T1	1	57uH	750344489	Wurth Elektronik	Transformer, 57 uH, SMD	EFD20, 12-Leads
U1	1		LM51551DSSR	Texas Instruments	2.2-MHz Wide Input Nonsynchronous Boost, Sepic, Flyback Controller, DSS0012B (WSON-12)	DSS0012B
U2	1		TCMT1108	Vishay-Semiconductor	Optocoupler, 3.75 kV, 130-260% CTR, SMT	SOP-4
U3	1		TL431LIAIDBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DBZ0003A (SOT-23-3)	DBZ0003A
U4	1		UCC24612-1DBVR	Texas Instruments	High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5)	DBV0005A
C10	0	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
C13	0	330pF	GRM1555C1E331JA01D	MuRata	CAP, CERM, 330 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
D8, D9	0	40V	SS10P4-M3/87A	Vishay-Semiconductor	Diode, Schottky, 40 V, 10 A, AEC-Q101, TO-277A	TO-277A
R11	0	0.02	WSLP0805R0200FEB	Vishay-Dale	RES, 0.02, 1%, 0.5 W, 0805	0805
R14	0	22.0	RC1206FR-0722RL	Yageo America	RES, 22.0, 1%, 0.25 W, 1206	1206

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