

PMP40555 REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP40555	Any	Printed Circuit Board	
C1	1	47uF	UCD1J470MNL1GS	Nichicon	CAP, AL, 47 uF, 63 V, +/- 20%, SMD	HA0
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, C19	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C7	1	1uF	GRM155R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0402	0402
C8	1	680pF	GRM1555C1H681JA01D	MuRata	CAP, CERM, 680 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	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
C13	1	330pF	GRM1555C1E331JA01D	MuRata	CAP, CERM, 330 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C14, C16	2	22uF	GRM31CR61E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X5R, 1206	1206
C15	1	0.033uF	GRM155R71E333KA88D	MuRata	CAP, CERM, 0.033 uF, 25 V, +/- 10%, X7R, 0402	0402
C17, C18	2	220uF	UCL1E221MNL1GS	Nichicon	CAP, AL, 220 uF, 25 V, +/- 20%, 0.08 ohm, SMD	HA0
C21	1	1uF	GRJ188R71E105KE11D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C22	1	47uF	EKZE250ELL470ME11D	Chemi-Con	CAP, AL, 47 uF, 25 V, +/- 20%, TH	D5xL11mm
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
D8	1	100V	PDS5100-13	Diodes Inc.	Diode, Schottky, 100 V, 5 A, PowerDI5	PowerDI5
D9	1	30V	BAT54SWT1G	Fairchild Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOT-323	SOT-323
J1, J2	2		691214110002	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
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
R1	1	240k	RC0603FR-07240KL	Yageo	RES, 240 k, 1%, 0.1 W, 0603	0603
R2	1	56.0k	RK73H1ETTP5602F	KOA Speer	RES, 56.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 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, R19	2	1.00k	RC0402FR-071KL	Yageo America	RES, 1.00 k, 1%, 0.0625 W, 0402	0402
R6, R8	2	5.10k	RC1206FR-075K1L	Yageo America	RES, 5.10 k, 1%, 0.25 W, 1206	1206
R7	1	10.0	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
R9	1	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
R11, R12	2	0.015	WSL0805R0150FEA18	Vishay-Dale	RES, 0.015, 1%, 0.25 W, 0805	0805
R13	1	10.0	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
R15	1	4.99k	RC0402FR-074K99L	Yageo America	RES, 4.99 k, 1%, 0.063 W, 0402	0402
R16	1	10.0	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
R17	1	3.00k	RC0402FR-073KL	Yageo America	RES, 3.00 k, 1%, 0.0625 W, 0402	0402
R18	1	10.0k	RC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R20	1	33.0	RC0402FR-0733RL	Yageo America	RES, 33.0, 1%, 0.062 W, 0402	0402
R21	1	43.2k	CRCW040243K2FKED	Vishay-Dale	RES, 43.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R22	1	11.3k	CRCW040211K3FKED	Vishay-Dale	RES, 11.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R23	1	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
T1	1	14uH	750344488	Würth Elektronik	Transformer, 14 uH, SMD	EFD20, 10-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
C10	0	220pF	C1608C0G2E221J080AA	TDK	CAP, CERM, 220 pF, 250 V, +/- 5%, C0G/NP0, 0603	0603
R14	0	22.0	RC1206FR-0722RL	Yageo America	RES, 22.0, 1%, 0.25 W, 1206	1206

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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