

Variant: 001
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PMP40994 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C6	2	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 µF, 50 V, +/- 20%, X7R, 1210	1210
2	C2, C4, C7, C12, C13	5	22uF	GRM21BR61C226ME44L	MuRata	CAP, CERM, 22 uF, 16 V, +/- 20%, X5R, 0805	0805
3	C3, C10, C11, C14	4	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
4	C5, C9	2	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
5	C8	1	10uF	GRM32ER7YA106KA12L	MuRata	CAP, CERM, 10 µF, 35 V, +/- 10%, X7R, 1210	1210
6	C15, C16, C18, C19, C21, C23	6	0.1uF	C0603C104Z3VACTU	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 20%, Y5V, 0603	0603
7	C17, C20, C22, C24	4	2.2uF	GRM188C71E225KE11D	MuRata	CAP, CERM, 2.2 µF, 25 V, +/- 10%, X7S, 0603	0603
8	D1, D3	2	15V	BZT52C15-7-F	Diodes Inc.	Diode, Zener, 15 V, 370 mW, AEC-Q101, SOD-123	SOD-123
9	D2, D4	2	200V	MURA220T3G	Onsemi	Diode, Schottky, 200 V, 2A, SMA	SMA
10	D5, D6	2	40V	NSR0240V2T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.25 A, SOD-523	SOD-523
11	J1	1		TSW-106-08-G-S-RA	Samtec	Header, 100mil, 6x1, Gold, R/A, TH	6x1 R/A Header
12	J2	1		JMP-36-30X40SMT	Any	Jumper, SMT	shorting jumper, SMT
13	J3, J4	2		TSW-104-08-G-S-RA	Samtec	Header, 100mil, 4x1, Gold, R/A, TH	4x1 R/A Header
14	PCB1	1		PMP40994	Any	Printed Circuit Board	
15	Q1, Q2	2	60V	2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23
16	R1, R4	2	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, 0603	0603
17	R2, R7	2	100	RT0805BRD07100RL	Yageo America	RES, 100, 0.1%, 0.125 W, 0805	0805
18	R3, R8	2	3.3k	CRCW06033K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.1 W, 0603	0603
19	R5	1	510k	CRCW0603510KJNEA	Vishay-Dale	RES, 510 k, 5%, 0.1 W, 0603	0603
20	R6	1	100	RC0603FR-07100RL	Yageo	RES, 100, 1%, 0.1 W, 0603	0603
21	R9	1	2.26k	CRCW06032K26FKEA	Vishay-Dale	RES, 2.26 k, 1%, 0.1 W, 0603	0603
22	R10	1	68.1k	CRCW060368K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.1 W, 0603	0603
23	R11	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
24	R12	1	13.7k	CRCW060313K7FKEA	Vishay-Dale	RES, 13.7 k, 1%, 0.1 W, 0603	0603
25	R13, R14, R19, R20	4	130	CRCW0603130RJNEA	Vishay-Dale	RES, 130, 5%, 0.1 W, 0603	0603
26	R15, R16	2	10.0	CRCW201010R0FKEF	Vishay-Dale	RES, 10.0, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
27	R17, R18	2	4.7	CRCW20104R70JNEF	Vishay-Dale	RES, 4.7, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
28	R21, R22	2	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, 0603	0603
29	T1	1	10uH	750345193	Würth	10uH EP10 Würth	
30	U1	1		TPS54308DDCR	Texas Instruments	4.5-V to 28-V Input, 3-A Output Synchronous Step-Down Converter, DDC0006A (SOT-6)	DDC0006A
31	U2, U3	2		UCC23513DWY	Texas Instruments	5-kVRMS, 3-A Single Channel Isolated Gate Driver with Opto Compatible Input, DWY0006A (SOIC-6)	DWY0006A

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