

# Bill of Materials

TI DESIGNS PMP9477

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	6	5Vo, TP1_GND, TP2_GND, TP3_GND, Vo1p8, Vo2p8	Double	Terminal, Turret, TH, Double	Keystone	1502-2	Keystone1502-2	
2	6	C1, C5, C9, C10, C16, C17	4.7uF	CAP, CERM, 4.7uF, 50V, +/-10%, X7R, 1206	MuRata	GRM31CR71H475KA12L	1206	
3	4	C2, C6, C22, C23	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H104K	0603L	
4	2	C3, C4	47uF	CAP, AL, 47uF, 50V, +/-20%, 0.68 ohm, SMD	Panasonic	EEE-FK1H470XP	SM_RADIAL_D8	
5	2	C7, C15	68uF	CAP, AL, 68uF, 50V, +/-20%, 30 ohm, SMD	Panasonic	EEHZA1H680P	SM_RADIAL_8MM	
6	1	C11	0.047uF	CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H473K	0603L	
7	1	C12	2200pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H222K	0603L	
8	1	C13	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C105K	0603L	
9	1	C14	100pF	CAP, CERM, 100pF, 50V, +/-5%, COG/NPO, 0603	MuRata	GRM1885C1H101JA01D	0603	
10	1	C18	0.1uF	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C104K	0603	
11	6	C19, C20, C33, C34, C191, C201	47uF	CAP, CERM, 47uF, 10V, +/-10%, X7R, 1210	MuRata	GRM32ER71A476KE15L	1210	
12	2	C21, C28	10uF	CAP, CERM, 10uF, 10V, +/-20%, X5R, 1206	TDK	C3216X5R1A106M	1206L	
13	1	C25	4700pF	CAP, CERM, 4700pF, 100V, +/-5%, X7R, 0603	AVX	06031C472JAT2A	0603L	
14	1	C26	100pF	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	AVX	06033C101KAT2A	0603L	
15	1	C27	0.022uF	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H223K	0603L	
16	4	C29, C30, C32, C35	22uF	CAP, CERM, 22uF, 10V, +/-10%, X7R, 1206	MuRata	GRM31CR71A226KE15L	1206L, 1206L, 1206, 1206	
17	1	C31	0.47uF	CAP, CERM, 0.47uF, 10V, +/-10%, X7R, 0603	MuRata	GRM188R71A474KA61D	0603L	
18	1	CF2	10uF	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	MuRata	GRM32ER71H106KA12L	1210	
19	1	CFF2	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	Kemet	C0805C104K1RACTU	0805_HV	
20	1	Csnb	1000pF	CAP, CERM, 1000pF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H102K	0603	
21	2	D1, D2	15V	Diode, Zener, 15V, 300mW, SOD-523	Diodes Inc.	BZT52C15T-7	SOD-523	
22	1	D3	60V	Diode, Schottky, 60V, 5A, SMC	Comchip Technology	CDBC560-G	SMC	
23	1	D4	0.55V	Diode, Schottky, 40V, 5A, SMC	Comchip Technology	CDBC540-G	SMC	
24	1	Duvlo	4.7V	Diode, Zener, 4.7V, 250mW, SOD-323	Central Semiconductor	CMDZ4L7 TR	sod-323	
25	2	J-ENABLE, J-FPWM	1x3	Header, TH, 100mil, 1x3, Gold plated, 230 mil above insulator	Sullins Connector Solutions	PBC03SAAN	PBC03SAAN	
26	1	J1		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	On-Shore Technology, Inc.	ED555/2DS	TERM_BLK_ED555-2DS	
27	1	L2	15uH	Inductor, Drum Core, Ferrite, 15uH, 5A, 0.0285 ohm, SMD	Bourns	SRR1280-150M	SRR1280	
28	1	L3	15uH	Inductor, Shielded Drum Core, Ferrite, 15uH, 5A, 0.024 ohm, SMD	Würth Elektronik eiSos	744770115	WE-PD-XL	
29	2	L4, L5	3.3uH	Inductor, Shielded, Ferrite, 3.3uH, 2.51A, 0.053 ohm, SMD	TDK	VL504015MT-3R3M	IND_VLF504015	
30	1	Q1	-60V	MOSFET, P-CH, -60V, -5A, PowerPAK SO-8	Vishay-Siliconix	SI7465DP	PowerPAK_SO-8	
31	1	Q2	60V	MOSFET, N-CH, 60V, 0.26A, SOT-23	ON Semiconductor	2N7002ET1G	SOT-23L	
32	1	Q4	60V	MOSFET, N-CH, 60V, 15A, SON 5x6mm	Texas Instruments	CSD18563Q5A	TRANS_NexFET_Q5A	
33	4	R1, R25, R33, R35	10k	RES, 10k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310K0JNEA	0603L, 0603L, 0603, 0603	
34	2	R2, R11	59.0k	RES, 59.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060359K0FKEA	0603	
35	4	R2b, R7, R12, R21	100k	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	0603L, 0603, 0603L, 0603L	
36	1	R3	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032K00FKEA	0603L	
37	3	R8, R19, R28	4.99	RES, 4.99 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603499FKEA	0603, 0603L, 0603L	
38	1	R10	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603499FKEA	0603L	
39	1	R13	0	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	0603L	
40	1	R14	15.4k	RES, 15.4k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060315K4FKEA	0603L	

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41	1	R15	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K00FKEA	0603	
42	1	R16	3.16k	RES, 3.16k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06033K16FKEA	0603	
43	1	R17	68.1k	RES, 68.1k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060368K1FKEA	0603L	
44	1	R18	0.02	RES, 0.02 ohm, 1%, 0.75W, 2010	Ohmite	LVK20R020FER	2010	
45	1	R20	20	RES, 20 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060320R0JNEA	0603L	
46	1	R22	200k	RES, 200k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603200KJNEA	0603L	
47	1	R23	33.0k	RES, 33.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060333K0FKEA	0603L	
48	1	R24	4.99k	RES, 4.99k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K99FKEA	0603L	
49	1	R26	124k	RES, 124k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603124KFKEA	0603L	
50	2	R27, R29	10k	RES, 10k ohm, 5%, 0.1W, 0603	Yageo America	RC0603JR-0710KL	0603	
51	1	R30	12.4k	RES, 12.4k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060312K4FKEA	0603	
52	2	R31, R32	49.9k	RES, 49.9k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060349K9FKEA	0603	
53	1	R34	24.9k	RES, 24.9k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060324K9FKEA	0603	
54	1	Rsnb	2.00	RES, 2.00 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08052R00FKEA	0805_HV	
55	1	U1		3A Switching Regulator with High Efficiency Sleep Mode, 20-pin TSSOP-EP, Pb-Free	Texas Instruments	LM26003QMH/NOPB	MXA20A_N	
56	1	U2		Dual 2.0A, High Frequency Synchronous Step-Down DC-DC Regulator, 16-pin LLP, Pb-Free	Texas Instruments	LM26420XSQ/NOPB	SQB16A	
57	1	U3		High Efficiency Low-Side N-Channel Controller for Switching Regulators, 10-pin MSOP, Pb-Free	Texas Instruments	LM3481MM/NOPB	MUB10A_N	

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