

Bill of Materials

TI DESIGNS

Part #: PMP6776

Literature #

DESIGNATOR	QUANTITY	VALUE	DESCRIPTION	MANUFACTURER	PART NUMBER	SIZE
!PCB	1		Printed Circuit Board	Any	PMP6776	
C1, C17	2	1.0uF	Capacitor, Ceramic, 25V, X5R, 20%	AVX	08053D105MAT2A	0805
C2, C18	2	4.7uF	Capacitor, Ceramic, 10V, X5R, 20%	AVX	0805ZD475MAT2A	0805
C3, C19	2	0.47uF	Capacitor, Ceramic, 0.47uF, 16V, X7R, 20%	AVX	04026D474KAT2A	0402
C4, C20	2	1.0uF	Capacitor, Ceramic, 25V, X7R, 20%	AVX	08053C105MAT2A	0805
C5, C6, C7, C21, C23	5	10uF	Capacitor, Ceramic, 25V, X7R, 20%	AVX	1206YC106MAT2A	1206
C8, C26	2	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	AVX	12106D108MAT2A	1210
C9, C10	2	Open	Capacitor, Ceramic, 6.3V, X5R, 20%	AVX	12106D476MAT2A	1210
C11, C27	2	22uF	Capacitor, Ceramic, 6.3V, X5R, 20%	AVX	12066D226MAT2A	1206
C12, C28	2	100nF	Capacitor, Ceramic, 16V, X7R, 20%	AVX	0402YD104MAT2A	0402
C13, C78	2	Open	Capacitor, Ceramic,	AVX	1206ZD226MAT2A	1206
C14, C30	2	820pF	Capacitor, Ceramic, 25V, X7R, 10%	AVX	06033C821KAZ2A	0402
C15	1	18pF	Capacitor, Ceramic, 25V, C0G, 10%	AVX	04023A180JAT2A	0402
C16, C32	2	680pF	Capacitor, Ceramic, 25V, C0G, 10%	AVX	04023C681KAT2A	0402
C22	1	10uF	Capacitor, Ceramic, 25V, X7R, 20%	AVX	Std	1206
C24, C25	2	Open	Capacitor, Ceramic, 6.3V, X5R, 20%	Std	Std	1210
C31	1	22pF	Capacitor, Ceramic, 25V, C0G, 10%	AVX	04023A220JAT2A	0402
C33, C44, C57, C61, C81	5	22uF	Capacitor, Ceramic,	AVX	1210YD226MAT2A	1210
C34, C58	2	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, [temp], [tol]	AVX	06033D104KAT2A	0603
C35, C52, C71	3	0.1uF	Capacitor, Ceramic, 16V, X5R, 20%	AVX	0402YD104KAT2A	0402
C36, C37, C38, C39, C53, C54, C55, C56, C72, C73	10	100uF	Capacitor, Ceramic,	AVX	12104D107MAT2A	1210
C40, C59	2	330 pF	Capacitor, Ceramic, 330pF, 25V, X7R, 10%	AVX	04025C331KAT2A	0402
C41, C62	2	100nF	Capacitor, Ceramic, 50V, X7R, 10%	AVX	06035C104KAT2A	0603
C42	1	0.022uF	Capacitor, Ceramic, 6.3V, X5R	STD	0402YD104KAT2A	0603
C43, C64	2	open	Capacitor, Ceramic, 50V, C0G, 5%	Std	Std	0603
C45, C46, C65	3	22uF	Capacitor, Ceramic, 6.3V, X5R, 10%	AVX	12066D226MAT2A	1206
C48, C68	2	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, X7R, 10%	AVX	06033C104MAT2A	0603
C49, C66	2	68pF	Capacitor, Ceramic, 68pF	AVX	04023A680KAT2A	0402
C50, C69	2	1uF	Capacitor, Ceramic, 16V, X7R, 10%	AVX	0603YC105KAT2A	0603
C51, C67	2	3300pF	Capacitor, Ceramic, 25V, X7R, 20%	AVX	04023C332MAT2A	0402
C60	1	0.1uF	Capacitor, Ceramic, 0.1uF, 16V, X7R, 20%	AVX	0402YD104KAT2A	0402

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C70	1	22uF	Capacitor, Ceramic, 16V, X7R, 15%	AVX	1210YD226MAT2A	1210
C74	1	1uF	Capacitor, Ceramic, 16V, X7R, 15%	AVX	0603YC105KAT2A	0603
C75	1	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	AVX	0402YD104KAT2A	0402
C76	1	0.1uF	Capacitor, Ceramic, 0.033uF, 16V, X7R, 15%	AVX	0402YD333KAT2A	0402
C77	1	22uF	Capacitor, Ceramic,	AVX	1206ZD226MAT2A	1206
C79	1	330 pF	Capacitor, Ceramic, 25V, X7R, 10%	AVX	04025C331KAT2A	0402
C80	1	0.022uF	Capacitor, Ceramic,6.3V, X5R	STD	0402YD333KAT2A	0603
C82	1	1nF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	AVX	0603YC102KAT2A	0603
C84	1	Short	Capacitor, Ceramic, 0.33uF, 16V, X7R, 20%	Std	Std	0402
C85	1	82pF	Capacitor, Ceramic, 82pF, 25V, NPO, [tol]	AVX	04023A820JAT2A	0402
C86	1	0.01 uF	Capacitor, Ceramic, 0.01uF, 25V, X7R, 20%	AVX	04023C103MAT2A	0402
D1, D2	2	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	Vishay-Liteon	BAS16	SOT23
J1	1	HPM-10-05-T-S	Header, High Temp, 8pin, 200mil spacing	Samtec	HPM-10-05-T-S	
J2	1	HPM-8-05-T-S	Header, High Temp, 10pin, 200mil spacing	Samtec	HPM-8-05-T-S	
J3	1	FW-05-05-F-D-361-085	Header, 2x5 pin 50 mil spacing	Samtec	FW-05-05-F-D-361-085	0.230 x 0.330 inch
JP1	1	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	Sullins	PEC03SAAN	0.100 inch x 3
L1, L2	2	2.7uH	Inductor, 2.7uH, 11A, 4.5milliohm	TDK	RLF12560T-2R7N110	0.325 x 0.318 inch
L3, L5	2	1uH	Inductor, SMT, 1uH, 9.4A, 11milliohm	TDK	VLP8040T-1R0N	
L4	1	2.2uH	Inductor, SMT, 2.2uH, 6.7A, 15milliohm	TDK	VLP8040T-2R2N	
L6	1	1.5uH	Inductor, SMT Power Line	TDK	VLC6045T-1R5N	6x6 mm
L7	1	1.5uH	Inductor, SMT, 1.5uH, 6.7A, 10milliohm	TDK	VLP8040T-1R5N	
L8	1	3.3uH	Inductor, SMT, 3.3uH, 3.3A, 24milliohm	TDK	SLF7055T-3R3N3R3-3PF	0.276 sq inch
R1, R10	2	1.18k	Resistor, Chip, 1.18kohm, 1/16W, 1%	Std	Std	0402
R3, R12	2	5.1	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R5	1	16.9k	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R6, R15	2	20.5k	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R8	1	464	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R9	1	4.53k	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R14	1	15.8k	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R17	1	499	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R18, R26, R34	3	6.34k	Resistor, Chip, 6.34kOhm, 1/16W, 1%	Std	Std	0402
R19	1	10	Resistor, Chip,10 Ohm, 1/16W, 1%	Std	Std	0402
R21, R32	2	2.52k	Resistor, Chip, 2.52kOhm, 1/16W, 1%	Std	Std	0402
R22, R38	2	22.1k	Resistor, Chip, 1/16W, 1%	STD	STD	0603
R23, R33, R47	3	100K	Resistor, Chip, 100kOhm, 1/16W, 1%	Std	Std	0402
R24	1	27.4k	Resistor, Chip, 1/16W, 1%	STD	STD	0603
R25, R37	2	100k	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R27	1	21k	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R28, R36, R49	3	10K	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R29, R31, R39	3	1k	Resistor, Chip, 1kOhm, 1/16W, x%	Std	Std	0402
R30, R52	2	10	Resistor, Chip, 10 Ohm, 1/16W, 1%	Std	Std	0402
R35	1	12.7k	Resistor, Chip, 12.7kOhm, 1/16W, 1%	Std	Std	0603
R40	1	140k	Resistor, Chip, 140 kOhm, 1/16W, 1%	Std	Std	0603
R41	1	10	Resistor, Chip, 10 ohm, 16W, 1%	Std	Std	0402
R42	1	22.1K	Resistor, Chip, 22.1kOhm, 1/16W, x%	Std	Std	0402

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R43	1	35.7K	Resistor, Chip, 35.7kOhm, 1/16W, x%	Std	Std	0402
R44	1	100k	Resistor, Chip, 33.2kOhm, 1/16W, 1%	Std	Std	0603
R45	1	100K	Resistor, Chip, 1/16W, x%	Std	Std	0402
R46	1	12.7K	Resistor, Chip, 1/16W, 1%	Std	Std	0402
R48	1	4.42K	Resistor, Chip, 4.42kOhm, 1/16W, 1%	Std	Std	0402
R50, R51	2	10	Resistor, Chip 1/4 watt, ± 5%	STD	STD	1206
R53	1	10	Resistor, Chip, 10 Ohm, 1/16W, 1%	Std	Std	0603
R54	1	10	Resistor, Chip, 1/16W, 1%	Std	Std	0603
TP1, TP6, TP12, TP33	4	5000	Test Point, Red, Thru Hole Color Keyed	Keystone	5000	0.100 x 0.100 inch
TP2, TP7, TP13	3	5000	Test Point, Red, Thru Hole Color Keyed	Keystone	5010	0.100 x 0.100 inch
TP3, TP5, TP9, TP15, TP23, TP31	6	5010	Test Point, Red, Thru Hole	Keystone	5010	0.125 x 0.125 inch
TP4, TP10, TP22, TP29, TP36	5	5011	Test Point, Black, Thru Hole	Keystone	5011	0.125 x 0.125 inch
TP17, TP26	2	5010	Test Point, Red, Thru Hole	Keystone	5000	0.125 x 0.125 inch
TP19	1	5011	Test Point, Black, Thru Hole	Keystone	5000	0.125 x 0.125 inch
TP27, TP35	2	5011	Test Point, Black, Thru Hole	Keystone	5011	0.125 x 0.125 inch
TP32	1	5010	Test Point, Red, Thru Hole	Keystone	5010	0.125 x 0.125 inch
U1, U2	2	TPS56121DQP	IC, 4.5-14V Input High Current Synchronous BUCK Converter	TI	TPS56121DQP	QFN-22 6X5 mm
U3, U5, U7	3	TPS54620RHL	IC, 1.62V-17V Synchronous Buck PWM Converter with Integrated MOSFET	TI	TPS54620RHL	QFN14
U4, U6	2	TPS54425PWP	IC, 4-A Output Single Sync. Step-Down Switcher with Integrated FET	Texas Instruments	TPS54425PWP	HTSSOP-14
U8	1	TPS54225PWP	IC, 2-A Output Single Sync. Step-Down Switcher W/ Integrated FET	TI	TPS54225PWP	HTSSOP-14

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