

# Bill of Materials

**TI DESIGNS**

Part #: PMP3199

Literature #

DESIGNATOR	QUANTITY	VALUE	DESCRIPTION	MANUFACTURER	PART NUMBER	SIZE
C1, C15, C20, C32	4	1000pF	Capacitor, Ceramic, 50V, X7R, 15%	TDK	Std	0603
C12, C19, C24, C39	4	1uF	Capacitor, Ceramic, 6.3V, X7R, 15%	TDK	Std	0603
C13, C21, C31	3	10uF	Capacitor, Ceramic, 6.3V, X7R, 15%	TDK	C2012X5R0J106KT	0805
C14, C23	2	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	TDK	Std	0603
C16	1	56pF	Capacitor, Ceramic, 50V, C0G, 5%	TDK	Std	0603
C17	1	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	TDK	Std	0603
C18, C22	2	0.1uF	Capacitor, Ceramic, 50V, X7R, 15%	TDK	Std	0603
C2, C3, C4, C5, C6, C33, C34, C35, C36, C37	10	22uF	Capacitor, Ceramic, 16V, X7R, 15%	TDK	Std	1210
C7, C26	2	4700pF	Capacitor, Ceramic, 50V, X7R, 15%	TDK	Std	0603
C8, C25	2	33pF	Capacitor, Ceramic, 50V, X7R, 15%	TDK	Std	0603
C9, C10, C11, C27, C28, C29, C30, C38	8	470uF	Capacitor, POSCap, 470uF, 6.3V, 0.01 Ohms, 20%, 7343	Sanyo	6TPD470	7343
D1, D2, D3, D4	4	MBR0530	Diode, Schottky, 500mA, 30V, SOD123	ON Semi	MBR0530	SOD123
J1, J2, J3	3	{value}	Terminal Block, 2-pin, 32-A, 9.5mm	OST	ED1981	0.75 x 0.49 inch
L1	1	1.5uH	Inductor, SMT, 27A, 3milliohm	Vishay	IHLP5050FD	0.51 x 0.51 inch
L2	1	1uH	Inductor, SMT, 27A, 2milliohm	Vishay	IHLP5050FD	0.51 x 0.51 inch
Q1, Q2, Q7, Q8	4	CSD16413Q5A	MOSFET, NChan, 25V, 24A, 3.1milliohm	Ciclon	CSD16413Q5A	QFN5X6mm
Q3, Q4, Q5, Q6	4	CSD16401Q5	MOSFET, NChan, 25V, 37A, 1.3milliohm	Ciclon	CSD16401Q5-R	QFN5X6mm
R1, R10, R16	3	10.0K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R11	1	17.4K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R2, R14	2	49.9	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R3, R15	2	49.9K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R4	1	10.2K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R5, R12	2	1.5	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R6, R13	2	20.0K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R7	1	8.06K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R8	1	9.31K	Resistor, Chip, 1/16W, 1%	Std	Std	0603
R9	1	10	Resistor, Chip, 1/10W, 1%	Std	Std	0805
TP1, TP2, TP4, TP7, TP9, TP11, TP12	7	5000	Test Point, Red, Thru Hole Color Keyed	Keystone	5000	0.100 x 0.100 inch

DESIGNATOR	QUANTITY	VALUE	DESCRIPTION	MANUFACTURER	PART NUMBER	SIZE
TP3, TP6, TP8, TP13, TP14	5	5001	Test Point, Black, Thru Hole Color Keyed	Keystone	5001	0.100 x 0.100 inch
U1	1	TPS5124DBT	IC, Dual Synchronous PWM Controller, TSSOP-30	TI	TPS5124DBT	DBT30

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