

Bill of Materials

TI DESIGNS

Part #: PMP1516

Literature #

DESIGNATOR	QUANTITY	DESCRIPTION	MANUFACTURER	PART NUMBER	SIZE
C12	1	Capacitor, Ceramic, 0.01uF, 25V, X7R, 10%, 0603	Std	Std	603
C10	1	Capacitor, Ceramic, 0.033uF, 16V, X7R, 10%, 0603	Std	Std	603
C4	1	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%, 0603	Std	Std	603
C14	1	Capacitor, Ceramic, 1uF, 16V, X5R, 10%, 0603	TDK	C1608X5R1C105KT	603
C15	1	Capacitor, Ceramic, 4.7uF, 6.3V, X5R, 10%, 0603	TDK	C1608X5R0J475KT	603
C11	1	Capacitor, Ceramic, 330pF, 50V, NPO, 10%, 0603	Std	Std	603
C5, C6	2	Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%, 0805	TDK	C2012X5R0J226MT	805
C9	1	Capacitor, Ceramic, 47uF, 6.3V, X5R, 20%, 1206	TDK	C3216X5R0J476MT	1206
C1, C2	2	Capacitor, Ceramic, 22uF, 16V, X5R, 20%, 1210	TDK	C3225X7R1C226MT	1210
C8	1	Capacitor, Aluminum, 220uF, 4V, 5 milliOhms	Panasonic	EEFSE0G221R	0.185" x 0.109"
C13	1	Capacitor, Aluminum, 22uF, 10V, 20%, FK Series	Panasonic	EEVFK1A220R	0.177" x 0.177"
C3	1	Capacitor, Alum, open			0.328" x 0.390"
J1, J2, J3, J6	4	Terminal Block, 2-pin, 15-A, 5.1mm	OST	ED1609	0.40 x 0.35"
J4, J5	2	Header, 2-pin, 100mil spacing, (36-pin strip)	Sullins	PTC36SAAN	0.100" x 2
L1	1	Inductor, SMT, 1uH, 29A, 0.0025 Ohms	Vishay Dale	IHLP5050EZRZ1R1M01	0.51" x 0.51"
Q1	1	MOSFET, N-Ch, 20V, 14A, 0.012 Ohms		Si7344DP	PWRPAK S0-8
Q2	1	MOSFET, N-Ch, 30V, 25A, 0.0048 Ohms		Si7636DP	PWRPAK S0-8
R2, R7, R8, R11, R12, R16	6	Resistor, Chip, 0 Ohms	Std	Std	603
R5	1	Resistor, Chip, 100K Ohms, 1%, 0603	Std	Std	603
R3	1	Resistor, Chip, 3.32K Ohms, 1%, 0603	Std	Std	603
R6	1	Resistor, Chip, 5.76K Ohms, 1%, 0603	Std	Std	603
R1	1	Resistor, Chip, 51.1 Ohms, 1%, 0603	Std	Std	603
R4, R9, R10, R13, R14, R15	6	Resistor, Chip, open	Std	Std	603
TP1, TP2, TP4, TP5, TP6, TP7, TP10	7	Test Point, Red, Thru Hole Color Keyed	Keystone	5000	0.100" x 0.100"
TP3, TP8, TP9, TP11	4	Test Point, Black, Thru Hole Color Keyed	Keystone	5001	0.100" x 0.100"
U1	1	IC, Synchronous VDDQ Controller w/ VTT LDO Regulator, PWP	Texas Instruments	TPS51116PWP	PWP20
U2	1	IC, Voltage Regulator, 5V, 500mA	Texas Instruments	UA78M05IDCY	SOT-223

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