

PMP8639 REV A2 Bill of Materials

Quantity	Designator	Value	Description	Footprint	PartNumber	Manufacturer
1	C1	68nF	Capacitor, Ceramic Chip, 100V, ±10%	C0805	Std	STD
5	C2, C5, C6, C9, C10	100nF	Capacitor, Ceramic Chip, X7R, ±10%	C0805	STD	STD
2	C3, C8	390uF	Capacitor, Aluminum, 50V, ±20%	CAP_ALUM_FK	EEVFK1H391Q	Panasonic
4	C4, C7, C100, C101	10uF	Capacitor, Ceramic, 50V, X7R, 20%	C1210	std	std
3	C11, C12, C13	2.2uF	Capacitor, Ceramic, 100V, X7R, 20%	C1210	std	std
1	C14	330pF	Capacitor, Ceramic Chip, 25V, ±10%	C603	Std	STD
3	C15, C18, C21	100pF	Capacitor, Ceramic Chip, 25V, ±10%	C603	Std	STD
2	C16, C26	100nF	Capacitor, Ceramic Chip, 25V, ±10%	C603	Std	STD
1	C17	33nF	Capacitor, Ceramic Chip, 25V, ±10%	C603	Std	STD
2	C19, C23	1uF	Capacitor, Ceramic Chip, 16V, ±10%	C603	Std	STD
1	C20	1nF	Capacitor, Ceramic Chip, 25V, ±10%	C603	Std	STD
1	C22	47nF	Capacitor, Ceramic Chip, 25V, ±10%	C603	Std	STD
2	C24, C25	Open	Capacitor, Ceramic, 100V, X7R, 20%	C1210	std	std
1	D1	PDS5100	Diode, Schottky Barrier, 5A, 100V	POWER_DI-5	PDS5100	Diodes
2	J1, J2	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	TB_2X3.5MM	ED555/2DS	OST
2	J3, J4	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	HDR100_1X2	PEC02SAAN	Sullins
1	L1	220uH	Dual Inductor, SMT, ±10%	IND_COILCRAFT590_X_590	PA6501-AL	Coilcraft
1	Q1	BSC440N10NS3G	MOSFET, Nch, 100V, 18A, 44 milliohm	P-TDSON-8	BSC440N10NS3G	Infineon
1	R1	49.9	Resistor, Chip, 1/16W,	R603	Std	STD
1	R2	10k	Resistor, Chip, 1/10W, 1%	R0805	Std	STD
1	R3	100k	Resistor, Chip, 1/10W, 1%	R0805	Std	STD
1	R4	3.65k	Resistor, Chip, 1/16W,	R603	Std	STD
2	R5, R7	0.25	Resistor, Chip, 1/2W, 1%	R1812	Std	Std
2	R6, R13	0	Resistor, Chip, 1/16W,	R603	Std	STD
2	R8, R16	10k	Resistor, Chip, 1/16W,	R603	Std	STD
1	R9	274k	Resistor, Chip, 1/10W, 1%	R0805	Std	STD
1	R10	1k	Resistor, Chip, 1/16W,	R603	Std	STD
1	R11	4.99k	Resistor, Chip, 1/16W,	R603	Std	STD
1	R14	71.5k	Resistor, Chip, 1/16W,	R603	Std	STD
1	R15	2.80k	Resistor, Chip, 1/16W,	R603	Std	STD
1	R17	84.5k	Resistor, Chip, 1/16W,	R603	Std	STD
1	R18	10	Resistor, Chip, 1/16W,	R603	Std	STD
1	R19	4.7	Resistor, Chip, 1/16W,	R603	Std	STD
1	SH1		Short jumper	WIRE		
5	TP1, TP5, TP6, TP10, TP12	5002	Test Point, White, Thru Hole Color Keyed	TH-40	5005	Keystone
1	TP3	5000	Test Point, Red, Thru Hole Color Keyed	TH-40	5005	Keystone

Quantity	Designator	Value	Description	Footprint	PartNumber	Manufacturer
1	TP4	5014	Test Point, Yellow, Thru Hole	TH-63	5005	Keystone
5	TP8, TP9, TP11, TP15, TP16	5001	Test Point, Black, Thru Hole Color Keyed	TH-40	5001	Keystone
1	U1	LM5022MM	IC, 60V Low Side Controller for Boost and SEPIC	MSOP10-0.5MM	LM5022MM	TI
1	U2	TLV2711DBV	IC, 500 uA single Chan, R-R Output Op-Amp	DBV-5	TLV2711DBV	TI

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