

PMP10092 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	330pF	GRM188R72A331KA01D	MuRata	CAP, CERM, 330pF, 100V, +/-10%, X7R, 0603	0603
C2, C3, C4, C5, C10, C11, C12, C13	8	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	1210
C6, C7	2	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	0805
C8, C9, C15	3	470uF	EEV-FK1J471M	Panasonic	CAP, AL, 470uF, 63V, +/-20%, 0.082 ohm, SMD	SMT Radial J16
C14, C19	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
C16, C21	2	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C17, C18, C20	3	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C22	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22uF, 25V, +/-10%, X7R, 0603	0603
C23	1	10uF	GRM21BR61C106KE15L	MuRata	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 0805	0805
C24	1	0.047uF	GRM188R71H473KA61D	MuRata	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0603	0603
C25	1	470pF	GRM188R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
D1, D3	2	0.77V	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100V, 1A, PowerDI123	PowerDI123
D2, D101, D102	3	0.57V	PMEG6010CEH,115	NXP Semiconductor	Diode, Schottky, 60V, 1A, SOD-123F	SOD-123F
D4	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40V, 3A, SMA	SMA
J1	1		TSW-102-07-G-S	Samtec, Inc.	Header, TH, 100mil, 2x1, Gold plated, 230 mil above insulator	TSW-102-07-G-S
L1	1	2.2uH	IHLP6767GZER2R2M11	Vishay-Dale	Inductor, Shielded, Powdered Iron, 2.2uH, 28A, 0.00198 ohm, SMD	17.15x7.0x17.15mm
L2	1	105nH	744302010	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 105nH, 30A, 0.000235 ohm, SMD	7x5x7mm
Q1	1	40V	CSD18509Q5B	Texas Instruments	MOSFET, N-CH, 40V, 38A, SON 5x6mm	SON 5x6mm
Q2, Q3	2	40V	CSD18501Q5A	Texas Instruments	MOSFET, N-CH, 40V, 22A, SON 5x6mm	SON 5x6mm
R1	1	4.7	CRCW12064R70JNEA	Vishay-Dale	RES, 4.7 ohm, 5%, 0.25W, 1206	1206
R2	1	0.003	73M1R003F	CTS Resistor	RES, 0.003 ohm, 1%, 1W, 2512	2512
R3, R4	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R5, R8, R9, R18	4	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R6	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R10	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R11	1	54.9k	CRCW060354K9FKEA	Vishay-Dale	RES, 54.9 k, 1%, 0.1 W, 0603	0603
R12	1	88.7k	CRCW060388K7FKEA	Vishay-Dale	RES, 88.7 k, 1%, 0.1 W, 0603	0603
R13	1	DNP	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R14, R17	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R15	1	1.74k	CRCW06031K74FKEA	Vishay-Dale	RES, 1.74 k, 1%, 0.1 W, 0603	0603
R16	1	49.9	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
TP1, TP8, TP10, TP11	4	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
TP2, TP3, TP6, TP7	4	15A	7693	Keystone	Terminal screw, vertical, snap-in	7693
TP4, TP5, TP9	3	Black	5011	Keystone	Test Point, TH, Multipurpose, Black	Keystone5011
U1	1		LM5121MH/NOPB	Texas Instruments	Wide Input Synchronous Boost Controller with Disconnection Switch Control, PWP0020A	PWP0020A

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