

PMP21735 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB1	1		PMP21735	Any	Printed Circuit Board	
C1	1	100uF	EEE-FK1H101P	Panasonic	CAP, AL, 100 uF, 50 V, +/- 20%, 0.34 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C2	1	2200pF	1812HC222KAT1A	AVX	CAP, CERM, 2200 pF, 3000 V, +/- 10%, X7R, 1812	1812
C3, C4, C5, C6	4	4.7uF	C1210C475K5RACAUTO	Kemet	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C7	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
C8	1	1uF	C2220C105MCR2C7186	Kemet	CAP, CERM, 1 uF, 500 V, +/- 20%, X7R, AEC-Q200 Grade 1, 6x5mm	6x5mm
C9	1	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
C10	1	2200pF	GRM21AR72E222KW01D	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 10%, X7R, 0805	0805
C11	1	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C12	1	100pF	CGA3E2NP01H101J080AA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 0, 0603	0603
C13	1	0.1uF	C1210W104KCRACU	Kemet	CAP, CERM, 0.1 uF, 500 V, +/- 10%, X7R, 1210	1210
C14	1	0.22uF	VJ2220Y224KBEAT4X	Vishay-Vitramon	CAP, CERM, 0.22 uF, 500 V, +/- 10%, X7R, 2220	2220
C15	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C16	1	0.22uF	GCM188R71E224KA55D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C101, C102, C103, C104, C105, C106, C107, C108	8	470uF	ESMQ451VSN471MA40S	Chemi-Con	CAP, AL, 470 uF, 450 V, +/- 20%, TH	D35xL40mm
D1	1	130V	5.0SMDJ130A	Littelfuse	Diode, TVS, Uni, 130 V, 209 Vc, SMC	SMC
D2	1	1200V	C4D02120E	Cree	Diode, Schottky, 1200 V, 10 A, DPAK	DPAK
D3	1	200V	ES3D-E3/57T	Vishay-Semiconductor	Diode, Ultrafast, 200 V, 3 A, SMC	SMC
D4, D5	2	75V	1N4148WX-TP	Micro Commercial Component	Diode, Switching, 75 V, 0.15 A, SOD-323	SOD-323
D6	1	12V	MMSZ5242B-7-F	Diodes Inc.	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1	1	20 V	FMMT618TA	Diodes Inc.	Transistor, NPN, 20 V, 2.5 A, AEC-Q101, SOT-23	SOT-23
Q2	1	200V	SQM90142E_GE3	Vishay-Siliconix	MOSFET, N-CH, 200 V, 65 A, DDPACK	DDPAK
Q3	1	20 V	FMMT718TA	Diodes Inc.	Transistor, PNP, 20 V, 1.5 A, SOT-23	SOT-23
Q4	1	600 V	PBHV8560ZX	Nexperia	Transistor, NPN, 600 V, 0.5 A, SOT-223	SOT-223
Q5	1	600 V	PBHV9560ZX	Nexperia	Transistor, PNP, 600 V, 0.5 A, AEC-Q101, SOT-223	SOT-223
R1	1	3.3	CRCW12063R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R2, R25	2	21.0k	CRCW060321K0FKEA	Vishay-Dale	RES, 21.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	4.7	CRCW25124R70JNEG	Vishay-Dale	RES, 4.7, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R4	1	3.3	CRCW06033R30JNEA	Vishay-Dale	RES, 3.3, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5	1	3.48k	CRCW06033K48FKEA	Vishay-Dale	RES, 3.48 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6	1	0.004	CSNL2512FT4L00	Stackpole Electronics Inc	RES, 0.004, 1%, 2 W, 2512	2512
R7	1	158k	CRCW0603158KFKEA	Vishay-Dale	RES, 158 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8, R16, R17	3	2.0k	CRCW08052K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R9, R15	2	1.0Meg	CRCW12061M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R10, R12, R18	3	332k	CRCW1206332KFKEA	Vishay-Dale	RES, 332 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R11, R21	2	1.0Meg	CRCW08051M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R13	1	6.04k	CRCW06036K04FKEA	Vishay-Dale	RES, 6.04 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19, R22	2	51k	CRCW080551K0JNEA	Vishay-Dale	RES, 51 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R20	1	4.7k	CRCW08054K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R23	1	3.65k	RG1608P-3651-B-T5	Susumu Co Ltd	RES, 3.65 k, 0.1%, 0.1 W, 0603	0603
R24	1	26.1k	CRCW060326K1FKEA	Vishay-Dale	RES, 26.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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R26	1	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R27	1	220	CRCW0603220RJNEA	Vishay-Dale	RES, 220, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T1	1	5uH	PM2522NL	Pulse	Transformer, Flyback, EFD30, Np:Ns = 1:6	EFD30
TP1, TP2, TP3, TP4	4		5019	Keystone	Test Point, Miniature, SMT	Test Point, Miniature, SMT
TP5, TP6, TP7, TP8	4		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_ Miniature
U1	1		LM5022QDGSRQ1	Texas Instruments	2.2MHz 60-V Low Side Controller for Boost, SEPIC and Flyback, DGS0010A (VSSOP-10)	DGS0010A
U2, U4	2		PS2501L-1-F3-H-A	California Eastern Laboratories	Optocoupler, 5 kV, 80-160% CTR, SMT	PS2501L
U3	1			Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	DBZ0003A

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