

PMP10632 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB1	1		PMP10632	Any	Printed Circuit Board	
C1	1	22uF	EEE-FK2A220P	Panasonic	CAP, AL, 22 μ F, 100 V, +/- 20%, 1.3 ohm, SMD	SMT Radial F
C2, C3, C4	3	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 μ F, 100 V, +/- 10%, X7R, 1210	1210
C5, C7	2	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 μ F, 25 V, +/- 10%, X7R, 0603	0603
C6	1	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 0805	0805
C8	1	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 μ F, 16 V, +/- 10%, X7R, 0805	0805
C9	1	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
C10	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C11, C13	2	2200pF	VJ1206Y222KXGAT5Z	Vishay-Vitramon	CAP, CERM, 2200 pF, 1000 V, +/- 10%, X7R, 1206	1206
C12	1	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470 pF, 100 V, +/- 5%, COG/NPO, 0805	0805
C14	1	2200pF	CGA4J3C0G2E222J	TDK	CAP, CERM, 2200pF, 250V, COG, 5%, 0805	0805
C15	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C16, C17, C19	3	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 μ F, 25 V, +/- 10%, X7R, 1206	1206
C18	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 μ F, 10 V, +/- 10%, X7R, 0603	0603
C21	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 μ F, 50 V, +/- 10%, X7R, 0603	0603
C22	1	1uF	GRM219R71E105KA88D	MuRata	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0805	0805
C23	1	390uF	EEE-FPV391UAP	Panasonic	CAP, AL, 390 μ F, 35 V, +/- 20%, 0.08 ohm, SMD	10 x 10
Cx1	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022 μ F, 50 V, +/- 10%, X7R, 0603	0603
D1	1	30V	1SMB5936BT3G	ON Semiconductor	Diode, Zener, 30 V, 550 mW, SMB	SMB
D2, D3	2	200V	BAS21-7-F	Diodes Inc.	Diode, Switching, 200 V, 0.2 A, SOT-23	SOT-23
D4	1	35V	MBRB2535CTLT4G	ON Semiconductor	Diode, Schottky, 35 V, 25 A, DDPAK	DDPAK
D5	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
H1, H3, H5, H7	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
H2, H4, H6, H8	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H9	1		573300D00010G	Aavid	Heatsink, DDPAK/TO-263, SMT	Heatsink, DDPAK
L1	1	470nH	PFL2010-471MEB	Coilcraft	Inductor, Shielded, Composite, 470 nH, 1.8 A, 0.06 ohm, SMD	2.2x1.0x1.45mm
L2	1	180nH	DO1813H-181MLB	Coilcraft	Inductor, Drum Core, Ferrite, 180 nH, 10 A, 0.003 ohm, SMD	DO1818H
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"H x 0.200"W
Q1	1	150V	SI7898DP-E3	Vishay-Siliconix	MOSFET, N-CH, 150 V, 3 A, PowerPAK SO-8	PowerPAK SO-8
R1	1	61.9k	CRCW120661K9FKEA	Vishay-Dale	RES, 61.9 k, 1%, 0.25 W, 1206	1206
R2	1	2.87k	CRCW06032K87FKEA	Vishay-Dale	RES, 2.87 k, 1%, 0.1 W, 0603	0603
R3	1	12.4k	CRCW060312K4FKEA	Vishay-Dale	RES, 12.4 k, 1%, 0.1 W, 0603	0603
R4	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R5, R17	2	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R6	1	20	CRCW080520R0JNEA	Vishay-Dale	RES, 20, 5%, 0.125 W, 0805	0805
R7	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R8, R9	2	0.47	ERJ-8RQFR47V	Panasonic	RES, 0.47, 1%, 0.25 W, 1206	1206
R10	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R11	1	10	CRCW251210R0JNEG	Vishay-Dale	RES, 10, 5%, 1 W, 2512	2512
R12	1	680	CRCW0603680RJNEA	Vishay-Dale	RES, 680, 5%, 0.1 W, 0603	0603
R13a, R13b, R13c	3	9.76	CRCW12069R76FKEA	Vishay-Dale	RES, 9.76, 1%, 0.25 W, 1206	1206
R14	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R15	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R16	1	1.0	CRCW06031R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.1 W, 0603	0603
R18	1	14.7k	CRCW060314K7FKEA	Vishay-Dale	RES, 14.7 k, 1%, 0.1 W, 0603	0603
R19	1	8.87k	CRCW06038K87FKEA	Vishay-Dale	RES, 8.87 k, 1%, 0.1 W, 0603	0603

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T1	1	105uH	B0695-A	Coilcraft	Pri:Sec = 1:0.23; Pri:Bias = 1:0.69 Transformer 1500Vrms Isolation	
TP1, TP2, TP11, TP12	4	Double	1593-2	Keystone	Terminal, Turret, TH, Double	Keystone1593-2
TP3, TP7	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP4, TP8	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP5, TP6, TP9, TP10	4	White	5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
U1	1		LM5020MM-2/NOPB	Texas Instruments	100V Current Mode PWM Controller, 10-pin MSOP, Pb-Free	MUB10A
U2	1		FOD817ASD	Fairchild Semiconductor	IC, Optocoupler, 5000V, 80-160% CTR	DIP-4L Gullwing
U3	1		LMV431AIMF/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 3-pin SOT-23	MF03A
C20	0	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	0603

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