

PMP7991 REV 1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B?	1		PMP7883 RevC	Any	PMP7883 RevC	N/A
C1, C2	2	0.01uF	BC2361-ND	Vishay	CAP CER 10000PF 300V 20% RADIAL	Radial
C3	1	100pF	06035A101JAT2A	AVX	CAP, CERM, 100pF, 50V, +/-5%, COG/NP0, 0603	0603
C5, C16	2	10uF	EEU-EE2W100U	Panasonic	CAP ALUM 10UF 450V 20% RADIAL	eg: 0603, used in PnP report
C6	1	3300pF	C3216C0G2J332J	TDK	CAP, CERM, 3300pF, 630V, +/-5%, COG/NP0, 1206	1206
C7	1		UHM1C152MPD	Nichicon	CAP, [CAP ALUM 1500UF 16V 20% RADIAL	
C8	1	10uF	0805YD106MAT2A	AVX	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0805	0805
C9	1		ECA-2AM220	Panasonic Electronic Compon	CAP ALUM 22UF 100V 20% RADIAL	
C10	1	4.7uF	C3216X7R1E475K	TDK	CAP, CERM, 4.7uF, 25V, +/-10%, X7R, 1206	1206
C11	1	15pF	GRM1885C1H150JA01D	MuRata	CAP, CERM, 15pF, 50V, +/-5%, COG/NP0, 0603	0603
C12	1	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, COG/NP0, 0603	0603
C13	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220pF, 50V, +/-5%, COG/NP0, 0402	0402
C14	1	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C15	1	220pF	DEBB33A221KC1B	Murata Electronics North Ame	CAP CER 220PF 1KV 10% RADIAL	
CX1	1	820pF	C0603C821J5GACTU	Kemet	CAP, CERM, 820pF, 50V, +/-5%, COG/NP0, 0603	0603
CX2	1	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
D1	1	1.1V	DF1506S	Diodes Inc.	Diode, Switching-Bridge, 600V, 1.5A, DF-S	DF-S
D2	1	0.58V	8TQ100SPBF	Vishay-Semiconductor	DIODE SCHOTTKY 100V 8A D2PAK	DDPAK
D3	1	1.7V	US1J-13-F	Diodes Inc	Diode, Schottky, 600V, 1A, SMA	SMA
D4	1	0.85V	RF071M2S	Rohm	Diode, Ultrafast, 200V, 1A, SOD-123	SOD-123
D5	1	15V	MMSZ5245B-7-F	Diodes Inc.	Diode, Zener, 15V, 500mW, SOD-123	SOD-123
F1	1		37011000410	Littelfuse Inc	FUSE FAST 250VAC 1A RADIAL	Radial, Can, Vertical
F1A	1		56000001009	Littlefuse	Fuseholders, Clips, & Hardware 6.3A/1.6W/4.3mm TR5/TE5 Holder	TR5/TE5
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J1, J2, J3, J4	4		TH PAD	NONE	THROUGH HOLE PAD	TH
L1	1	680nH	LPS4012-681MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 680nH, 2.4A, 0.05 ohm, SMD	LPS4012
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		BSP135 L6433	Infineon	MOSFET N-CH 600V 120MA SOT-223	eg: 0603, used in PnP report
Q2	1	600V	IPD60R750E6	Infineon Technologies	MOSFET N-CH 600V 5.7A TO252-3	TO252-3
Q3	1		PZTA42,115	Fairchild Semiconductor	TRANS NPN 300V 100MA SOT223	
R1	1	11.0k	CRCW060311K0FKEA	Vishay-Dale	RES, 11.0k ohm, 1%, 0.1W, 0603	0603
R4, R5, R6	3	249k	CRCW1206249KFEA	Vishay-Dale	RES, 249k ohm, 1%, 0.25W, 1206	1206
R7	1	10k	CRCW251210K0FKEGHP	Vishay Dale	RES 10.0K OHM 1W 1% 2512 SMD	2512 (6332 Metric)
R8	1		RC0603FR-0723K7L	Yageo	RES 23.7K OHM 1/10W 1% 0603 SMD	
R10	1	221k	CRCW0603221KFEA	Vishay-Dale	RES, 221k ohm, 1%, 0.1W, 0603	0603
R12	1	1.21k	CRCW06031K21FKEA	Vishay-Dale	RES, 1.21k ohm, 1%, 0.1W, 0603	0603
R13	1	15.2k	RT0603DRE0715K2L	Yageo America	RES, 15.2k ohm, 0.5%, 0.1W, 0603	0603
R14	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
R15	1	10.0Meg	CRCW120610M0FKEA	Vishay-Dale	RES, 10.0Meg ohm, 1%, 0.25W, 1206	1206
R16	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75 ohm, 1%, 0.1W, 0603	0603
R17	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R18	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4k ohm, 1%, 0.1W, 0603	0603
R19	1	0.25	CSR1206FKR250	Stackpole Electronics Inc	RES, 0.25 ohm, 1%, 0.5W, 1206	1206
R20, RX4	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R21	1	19.1k	CRCW060319K1FKEA	Vishay-Dale	RES, 19.1k ohm, 1%, 0.1W, 0603	0603

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RT1	1		MF72-030D11	Cantherm	CURRENT LIMITER INRUSH 30OHM 20%	eg: 0603, used in PnP report
RX1	1	22.1	RC0603FR-0722R1L	Yageo America	RES, 22.1 ohm, 1%, 0.1W, 0603	0603
RX2	1	100k	RC0603FR-07100KL	Yageo America	RES, 100k ohm, 1%, 0.1W, 0603	0603
RX5	1	120	RC0603FR-07120RL	Yageo America	RES, 120 ohm, 1%, 0.1W, 0603	0603
S1	1		SS12SDH2	NKK	SW SLIDE ULTR MINI SPDT SIDE ACT	3 X 1 100 mil
T1	1	4.7mH	50475C	Murata	CHOKE COMMON MODE 4.7MH 0.4A SMD	eg: 0603, used in PnP report
T2	1		custom	Werth Elektronik	Werth Elektronik Transformer	14 X 2 TH
U1	1		LM5023	Texas Instruments	IC, CTRLR, AC-DC Quasi Resonant PWM	SO-8
U2	1		PS2811-1-M-A	Renesas	Low Input Current, Hight CTR Photocoupler	PS2811-1
U3	1		LMV431BIMF	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 3-pin SOT-23	MF03A
DX1	0	4.3V	MMSZ5229B-7-F	Diodes Inc.	Diode, Zener, 4.3V, 500mW, SOD-123	SOD-123
RX3	0		CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603

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