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N/A

PMP20981 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C15, C16, C21	3	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C24	1	220pF	GRM1885C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C31, C32, C33, C34	4	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 µF, 100 V,+/- 10%, X7R, 0603	0603
C23	1	0.027uF	GRM188R71H273KA61D	MuRata	CAP, CERM, 0.027uF, 50V, +/-10%, X7R, 0603	0603
C22, C25, C26, C27, C28	5	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C17, C19	2	0.22uF	C1608X7R1E224K080AC	TDK	CAP, CERM, 0.22 µF, 25 V,+/- 10%, X7R, 0603	0603
C18	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0603	0603
C13	1	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100pF, 250V, +/-5%, C0G/NP0, 0805	0805
C3	1	0.01uF	GRM21BR72E103KW03L	MuRata	CAP, CERM, 0.01 µF, 250 V,+/- 10%, X7R, 0805	0805
C20	1	0.047uF	C2012X7R2A473K125AA	TDK	CAP, CERM, 0.047 µF, 100 V,+/- 10%, X7R, 0805	0805
C14, C29	2	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 µF, 100 V,+/- 10%, X7R, 0805	0805
C7	1	0.22uF	C2012X7R1H224K125AA	TDK	CAP, CERM, 0.22 µF, 50 V,+/- 10%, X7R, 0805	0805
C30	1	0.22uF	GRM31MR72A224KA01L	MuRata	CAP, CERM, 0.22uF, 100V, +/-10%, X7R, 1206	1206
C5, C6	2	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 µF, 25 V,+/- 10%, X7R, 1210	1210
C9, C10, C11, C12	4	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V,+/- 10%, X7R, 1210	1210
C35, C36	2	1000pF	GR443QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V,+/- 10%, X7R, 1812	1812
C1, C2	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V,+/- 10%, X7R, 1812	1812
C4	1	100uF	EEE-FK1E101P	Panasonic	CAP, AL, 100uF, 25V, +/-20%, 0.26 ohm, SMD	SMT Radial E
C8	1	22uF	EEE-FK1J220P	Panasonic	CAP, AL, 22 µF, 63 V, +/- 20%, 1.2 ohm, AEC-Q200 Grade 2, SMD	SMT Radial E
D1	1		ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D2	1		ES2D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 2 A, SMB	SMB
D3	1		ES3AB-13-F	Diodes Inc.	Diode, Superfast Rectifier, 50 V, 3 A, SMB	SMB
D4	1	9.1V	BZX84C9V1LT1G	ON Semiconductor	Diode, Zener, 9.1V, 225mW, SOT-23	SOT-23
D5, D6	2		MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D7	1	20V	BZX84C20LT1G	ON Semiconductor	Diode, Zener, 20V, 225mW, SOT-23	SOT-23
D8	1	58V	SMAJ58A-13-F	Diodes Inc.	Diode, TVS, Uni, 58 V, SMA	SMA
D9	1	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
J3, J4	2		1-406541-1	TE Connectivity	RJ-45, No LED, tab up, R/A, TH	16.26x14.54x15.75
L1	1	1uH	XAL4020-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 µH, 8.75 A, 0.01 ohm, SMD	4x2.1x4mm
L2	1	1uH	LPS4012-102NLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 1 µH, 2.4 A, 0.06 ohm, SMD	LPS4012
L3	1	60uH	H6502NL	Pulse Engineering	Coupled inductor, 60 µH, 0.25 ohm, SMD	9.27x5.5x6.22mm
Q1	1		CSD18504Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 15 A, DQJ0008A (VSONP-8)	DQJ0008A
R14	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R6, R10	2	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
R25, R26, R27, R29, R30, R31, R32, R33	8	75.0	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0 ohm, 1%, 0.1W, 0603	0603
R13	1	750	CRCW0603750RFKEA	Vishay-Dale	RES, 750 ohm, 1%, 0.1W, 0603	0603
R9, R17, R22, R23	4	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R20	1	2.74k	CRCW06032K74FKEA	Vishay-Dale	RES, 2.74k ohm, 1%, 0.1W, 0603	0603
R12	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32k ohm, 1%, 0.1W, 0603	0603
R18	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99k ohm, 1%, 0.1W, 0603	0603
R19	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R7	1	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7k ohm, 1%, 0.1W, 0603	0603

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R16, R28	2	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9k ohm, 1%, 0.1W, 0603	0603
R15	1	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
R5, R21	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R24	1	124k	CRCW0603124KFKEA	Vishay-Dale	RES, 124k ohm, 1%, 0.1W, 0603	0603
R2	1	24k	CRCW080524K0JNEA	Vishay-Dale	RES, 24k ohm, 5%, 0.125W, 0805	0805
R3	1	0	ERJ-8GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.25W, 1206	1206
R11	1	0.015	CSRN2010FK15L0	Stackpole Electronics Inc	RES, 0.015, 1%, 1 W, 2010	2010
R4	1	200	CRCW2010200RJNEF	Vishay-Dale	RES, 200, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R8	1	5.6k	CRCW20105K60JNEF	Vishay-Dale	RES, 5.6 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R1	1	27k	CRCW201027K0JNEF	Vishay-Dale	RES, 27 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
T1	1		PA4191NL	Pulse Engineering	Transformer, 10 uH, SMT	SMD, 10-Leads, Body 13.44 x 13.44 mm, Pitch 2.5 mm
T2	1		H6062FNLT	Pulse Engineering	Transformer Module, 350 uH, Gigabit, 1 port, POE, 1:1, SMT	17.5x15.24mm
TP1	1	White	5002	Keystone	Test Point, Miniature, White, TH	Keystone5002
U2	1		HMHA2801A	Fairchild Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	Mini Flat Package
U1	1		LM3481MM/NOPB	Texas Instruments	High Efficiency Low-Side N-Channel Controller for Switching Regulators, 10-pin MSOP	MUB10A
U3	1		TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U4	1		TPS2384PAPR	Texas Instruments	Quad Ethernet Power Sourcing Equipment Power Manager, -40 to 125 degC, 64-pin QFP (PAP64), Green (RoHS & no Sb/Br)	PAP0064F

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