

PMP30522 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2	2	1uF	R46KN-4100--P1 M	Panasonic	CAP, Film, 1uF, 275V, +/-20%, TH	Radial 26x12x19.5
C3, C4, C21	3	2200pF	DE6E3KJ222MN3A	MuRata	CAP, CERM, 2200 pF, 300 V, +/- 20%, E, TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm
C5	1	150pF	PFR5151J630J11L4BULK	Kemet	CAP, Film, 150 pF, 630 V, +/- 5%, TH	7.2x4.5mm
C6	1	100pF	PFR5101J630J11L4BULK	Kemet	CAP, Film, 100 pF, 630 V, +/- 5%, TH	7.2x4.5mm
C7, C12	2	4.7uF	C2012X7R1E475K125AB	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	0805
C8, C19	2	2.2uF	C2012X5R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, 0805	0805
C9	1	DNP	DNP	MuRata	DNP	0603
C10	1	6800pF	C0603C682J5RACTU	Kemet	CAP, CERM, 6800 pF, 50 V, +/- 5%, X7R, 0603	0603
C11, C13	2	100uF	EKXG251ELL101ML25S	Chemi-Con	CAP, AL, 100 uF, 250 V, +/- 20%, TH	D16xL25mm
C14	1	3.9pF	06035A3R9CAT2A	AVX	CAP, CERM, 3.9 pF, 50 V, +/- 6%, COG/NP0, 0603	0603
C15	1	0.15uF	GRM188R71C154KA01D	MuRata	CAP, CERM, 0.15 uF, 16 V, +/- 10%, X7R, 0603	0603
C16, C17	2	0.033uF	ECW-F4333JL	Panasonic	CAP, Film, 0.033 uF, 400 V, +/- 5%, TH	12.5x6.2mm
C18, C35	2	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C20	1	120uF	35ZLQ120MEFC6.3X11	Rubycon	CAP, AL, 120 uF, 35 V, +/- 20%, TH	D6.3xL11mm
C22	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C23	1	10pF	06035A100JAT2A	AVX	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C24	1	47uF	EEE-FK1E470P	Panasonic	CAP, AL, 47 uF, 25 V, +/- 20%, 0.36 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D
C25, C26	2	220uF	EKZE630ELL221MJ25S	Chemi-Con	CAP, AL, 220 uF, 63 V, 1.35A, +/- 20%, TH	D10xL25mm
C27, C28, C29	3	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, 1210	1210
C30, C31	2	2.2uF	C1608X5R1V225K080AC	TDK	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	0603
C32, C33	2	1uF	C1608X5R1H105K080AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X5R, 0603	0603
C34	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C101	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
D1	1	GBU806	GBU806	Diodes Inc.	Diode, Switching-Bridge, 600 V, 8 A, TH	GBU
D2	1	ES1JAF	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
D3	1	B1100-13-F	B1100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 1 A, SMA	SMA
D4, D5	2	DNP	DNP	Diodes Inc.	DNP	DPAK
D6, D7, D8, D9	4	MBR0540	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
D10	1	BAS16J,135	BAS16J,135	Nexperia	Diode, Switching, 100 V, 0.25 A, SOD-323F	SOD-323F
D11, D12	2	DNP	DNP	DNP	DNP	SOD-123FL
D100	1	6.2V	BZT52C6V2T-7	Diodes Inc.	Diode, Zener, 6.2 V, 300 mW, SOD-523	SOD-523
D101	1	18V	MMSZ5248BS-7-F	Diodes Inc.	Diode, Zener, 18 V, 200 mW, SOD-323	SOD-323
J1	1		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block
J2	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
J3	1		ED120/4DS	On-Shore Technology	Terminal Block, 5.08 mm, 4x1, Brass, TH	4x1 5.08 mm Terminal Block
L1	1	2.2mH	744823422	Würth Elektronik	Coupled inductor, 2.2 mH, 4 A, 2x0.03 ohm, TH	13x22x17.5mm
L2	1	DNP	DNP	TBD	DNP	DNP
L3	1	10uH	DO3340P-103MLB	Coilcraft	Inductor, Drum Core, Ferrite, 10 uH, 3.5 A, 0.04 ohm, SMD	15.95x11.43x9.4mm
Q1, Q2	2	650V	IPB65R150CFD	Infineon Technologies	MOSFET, N-CH, 650 V, 22.4 A, DDPAK	DDPAK
Q3, Q4	2	IRFR4615PbF	IRFR4615PbF	International Rectifier	MOSFET, N-CH, 150 V, 33 A, DPAK	DPAK
Q5	1	IRP60R099CP	IRP60R099CPXKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 31 A, TO-220AB	TO-220AB
R1, R3, R4	3	1.65k	CRCW12061K65FKEA	Vishay-Dale	RES, 1.65 k, 1%, 0.25 W, 1206	1206
R2	1	221	RC0603FR-07221RL	Yageo America	RES, 221, 1%, 0.1 W, 0603	0603
R5	1	620k	RC0603FR-07620KL	Yageo America	RES, 620 k, 1%, 0.1 W, 0603	0603
R6	1	392k	RC0603FR-07392KL	Yageo America	RES, 392 k, 1%, 0.1 W, 0603	0603

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R7, R8, R23, R24	4	2.21	RC0805FR-072R21L	Yageo America	RES, 2.21, 1%, 0.125 W, 0805	0805
R9	1	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, 0603	0603
R10, R11, R100	3	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R12, R13	2	2.21Meg	RC1206FR-072M21L	Yageo America	RES, 2.21 M, 1%, 0.25 W, 1206	1206
R14	1	97.6k	RC0603FR-0797K6L	Yageo America	RES, 97.6 k, 1%, 0.1 W, 0603	0603
R15	1	42.2k	RC0603FR-0742K2L	Yageo America	RES, 42.2 k, 1%, 0.1 W, 0603	0603
R16	1	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R17	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R18	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R19, R22	2	4.99k	RC0603FR-074K99L	Yageo America	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R20	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R21	1	100k	RC0603FR-07100KL	Yageo America	RES, 100 k, 1%, 0.1 W, 0603	0603
R25	1	147k	CRCW0603147KFKEA	Vishay-Dale	RES, 147 k, 1%, 0.1 W, 0603	0603
R26	1	49.9	RC0603FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.1 W, 0603	0603
R27, R28, R30	3	10.0	RC0603FR-0710RL	Yageo America	RES, 10.0, 1%, 0.1 W, 0603	0603
R29	1	3.32Meg	CRCW06033M32FKEA	Vishay-Dale	RES, 3.32 M, 1%, 0.1 W, 0603	0603
R101	1	2.21	RC1206FR-072R21L	Yageo America	RES, 2.21, 1%, 0.25 W, 1206	1206
R102, R103	2	220k	RC1206FR-07220KL	Yageo America	RES, 220 k, 1%, 0.25 W, 1206	1206
RT1	1	4.70 ohm	B57235S0479M000	TDK	Thermistor NTC, 4.70 ohm, 20%, D9.5xT6mm	D9.5xT6mm
RV1	1	150V	B72214S0151K101	TDK	Varistor, 430V, 4.5KA, TH	Disc, 14x5mm
T1	1	160.5uH	G184013LF-ENG1 Revision 5	GCI Technologies	Transformer, Resonant, 160.5 uH, TH	36x36x27mm
TP1, TP9	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP8	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP3	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP7	1		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1	UCC256302DDBR	UCC25630-2DDBR	Texas Instruments	LLC Resonant Controller With High Voltage Start Up Enabling Low Standby Power, DDB0014A (SOIC-14)	DDB0014A
U2, U3	2	TCMT1107	TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
U4	1	LMV431AIMF	LMV431AIMF	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 3-pin SOT-23	MF03A
U5, U6	2	UCC24612-2DBVT	UCC24612-2DBVT	Texas Instruments	UCC24612-2DBV, DBV0005A (SOT-23-5)	DBV0005A

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