

DNP = DO NOT POPULATE

PMP30631 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	82uF	450BXW82MEFR18X30	Used in BOM report	CAP, [Technology], 82uF, 450V, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C2	1	0.47uF	1812Y5000474KXTWS2	Knowles Capacitors	CAP, CERM, 0.47 µF, 500 V,+/- 10%, X7R, 1812	1812
C3	1	0.1uF	C3216X7T2W104K160AA	TDK	CAP, CERM, 0.1 uF, 450 V, +/- 10%, X7T, 1206_190	1206_190
C4	1	DNP	450BXW82MEFR18X30	Used in BOM report	CAP, [Technology], 82uF, 450V, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C5	1	0.1uF	B32922C3104M	TDK	CAP, Film, 0.1 µF, 630 V,+/- 20%, TH	B32922_10.5mm
C6	1	0.47uF	GRM55DR72E474KW01L	MuRata	CAP, CERM, 0.47 µF, 250 V,+/- 10%, X7R, 2220	2220
C7	1	0.68uF	DNP	MuRata	CAP, CERM, 0.68 µF, 250 V,+/- 10%, X7R, 2220	2220
C8	1	DNP	GRM55DR72E684KW01L	MuRata	CAP, CERM, 0.68 µF, 250 V,+/- 10%, X7R, 2220	2220
C9	1	0.15uF	C0805C154K5RACTU	Kemet	CAP, CERM, 0.15 µF, 50 V,+/- 10%, X7R, 0805	0805
C10, C24	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 0805	0805
C11, C30, C33	3	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0805	0805
C12, C13	2	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V,+/- 5%, COG/NP0, 0603	0603
C14	1	1200uF	EEU-FM1V122L	Panasonic	CAP, AL, 1200 µF, 35 V, +/- 20%, TH	D12.5xL30mm
C15	1	DNP	DNP	Used in BOM report	CAP, [Technology], xxxF, xxV, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C16	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V,+/- 10%, X7R, 1210	1210
C17	1	1500pF	GRM31BR72J152KW01L	MuRata	CAP, CERM, 1500 pF, 630 V,+/- 10%, X7R, 1206	1206
C18, C19	2	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 µF, 50 V,+/- 20%, X7R, 1210	1210
C20	1	3300pF	DE1E3KX332MN4AP01F	MuRata	CAP, CERM, 3300 pF, X1 250 VAC/Y1 300 VAC, +/- 20%, E, D10xT7mm	D10xT7mm
C21	1	SHORT	SHORT	MuRata	CAP, CERM, 3300 pF, X1 250 VAC/Y1 300 VAC, +/- 20%, E, D10xT7mm	D10xT7mm
C22, C29	2	3.3pF	06035A3R3CAT2A	AVX	CAP, CERM, 3.3 pF, 50 V,+/- 8%, COG/NP0, 0603	0603
C23	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 µF, 50 V,+/- 10%, X7R, 0805	0805
C25	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, COG/NP0, 0603	0603
C26	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0603	0603
C27, C28	2	0.015uF	GRM188R71H153KA01D	MuRata	CAP, CERM, 0.015 µF, 50 V,+/- 10%, X7R, 0603	0603
C31	1	100uF	EEE-FK1V101XP	Panasonic	CAP, AL, 100 µF, 35 V, +/- 20%, 0.34 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D8
C32	1	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V,+/- 10%, X7R, 0603	0603
C34	1	10uF	GRM32ER71H106MA12	MuRata	CAP, CERM, 10 µF, 50 V,+/- 20%, X7R, 1210	1210
C35, C37	2	27pF	GRM1885C1H270JA01D	MuRata	CAP, CERM, 27 pF, 50 V,+/- 5%, COG/NP0, 0603	0603
C36	1	180pF	GRM2165C1H181JA01D	MuRata	CAP, CERM, 180 pF, 50 V,+/- 5%, COG/NP0, 0805	0805
C38	1	2.2uF	GRM31CR71H225KA88L	MuRata	CAP, CERM, 2.2 µF, 50 V,+/- 10%, X7R, 1206	1206
D1	1	600V	GBU4J-BP	Micro Commercial Component	Diode, P-N-Bridge, 600 V, 4 A, TH	GBU
D2	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
D3, D6	2	30V	B130-13-F	Diodes Inc.	Diode, Schottky, 30 V, 1 A, SMA	SMA
D4, D5	2	18V	SMAZ18-13-F	Diodes Inc.	Diode, Zener, 18 V, 1 W, AEC-Q101, SMA	SMA
D7	1	200V	SS1200-LTP	Micro Commercial Component	Diode, Schottky, 200 V, 1 A, SMA	SMA
D8	1	27V	MMSZ5254B-7-F	Diodes Inc.	Diode, Zener, 27 V, 500 mW, SOD-123	SOD-123
D9	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
Dz2	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123

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DZ1	1	24V	MMSZ5252B-7-F	Diodes Inc.	Diode, Zener, 24 V, 500 mW, SOD-123	SOD-123
F1	1		37212500001	Littelfuse	Fuse, 2.5 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
L1	1	10uH	744732100	Würth Elektronik	Inductor, Unshielded Drum Core, Metal Composite, 680 uH, 0.42 A, 2.2 ohm, TH	D9.0xL8.0mm
L2	1	20mH	744823220	Würth Elektronik	Coupled inductor, 20 mH, 1.5 A, 0.27 ohm, TH	13x22x17.5mm
L3	1	1uH	7447462010	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 1 uH, 8 A, 0.006 ohm, TH	D6 x 8.5mm
Q1, Q2	2		IPAW60R360P7SXXSA1-ND	Infineon	MOSFET, N-CH, 650V, xxxA, [PackageReference]	Used in PnP output and some BOM reports
Q3	1	200V	SiR616DP		MOSFET, N-CH, 200 V, PG-TDSON-8	PG-TDSON-8
Q4	1	600V	BSS126 H6906	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
Q5	1	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
R1, R10, R39	3	DNP	DNP	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R2, R3	2	383k	CRCW1206383KFKEA	Vishay-Dale	RES, 383 k, 1%, 0.25 W, 1206	1206
R4, R19, R23	3	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R5	1	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R6, R9	2	4.99k	CRCW08054K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.125 W, 0805	0805
R7, R8	2	15.0	CRCW080515R0FKEA	Vishay-Dale	RES, 15.0, 1%, 0.125 W, 0805	0805
R11	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R12, R13, R22	3	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R14, R15	2	0.27	ERJ-8RQFR27V	Panasonic	RES, 0.27, 1%, 0.25 W, 1206	1206
R16	1	3.3	CRCW25123R30JNEG	Vishay-Dale	RES, 3.3, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R17	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R18	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R20	1	41.2k	CRCW060341K2FKEA	Vishay-Dale	RES, 41.2 k, 1%, 0.1 W, 0603	0603
R21	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R24	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R25	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R26	1	196k	CRCW0603196KFKEA	Vishay-Dale	RES, 196 k, 1%, 0.1 W, 0603	0603
R27, R28	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R29	1	34.0k	CRCW060334K0FKEA	Vishay-Dale	RES, 34.0 k, 1%, 0.1 W, 0603	0603
R30	1	12.1k	RC0603FR-0712K1L	Yageo America	RES, 12.1 k, 1%, 0.1 W, 0603	0603
R31, R35	2	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R32	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R33	1	121	CRCW0603121RFKEA	Vishay-Dale	RES, 121, 1%, 0.1 W, 0603	0603
R34	1	604k	CRCW0603604KFKEA	Vishay-Dale	RES, 604 k, 1%, 0.1 W, 0603	0603
R36	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R37	1	124k	CRCW0603124KFKEA	Vishay-Dale	RES, 124 k, 1%, 0.1 W, 0603	0603
R38	1	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
R40	1	21.5k	CRCW060321K5FKEA	Vishay-Dale	RES, 21.5 k, 1%, 0.1 W, 0603	0603
R41	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
RT1	1	5ohm	B57464S0509M000	TDK	Thermistor NTC, 5 ohm	
RT2	1	47.0k	NCP18WB473F10RB	MuRata	Thermistor NTC, 47.0k ohm, 1%, 0603	0603
T1	1		750318431_R00	Würth Electronics	PTH_TRANSFORMER_14	PTH_14
TP1, TP2, TP5, TP6	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4	2		1503-2	Keystone	Terminal, Turret, TH, Double	Keystone1503-2
TP7	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		UCC27712DR	Texas Instruments	620-V High-Side Low-Side Gate Driver with 2.5A Peak Output and RobustDrive, D0008A (SOIC-8)	D0008A
U2	1		UCC24612-1DBVR	Texas Instruments	High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5)	DBV0005A
U3	1		UCC28780DR	Texas Instruments	Active-Clamp Flyback Controller, D0016A (SOIC-16)	D0016A
U4	1		FOD817AS	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMT	DIP-4L Gullwing
U5	1		ATL431LIBQDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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