

PMP23146 REV B2 Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.22uF	C3216X7T2E224K160AA	TDK	CAP, CERM, 0.22 uF, 250 V, +/- 10%, X7T, 1206 190	1206 190
C2	1	0.022uF	GRM155R71H223KA12D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0402	0402
C3, C15	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C4	1	270uF	APSG160ELL271MF08J	Nippon Chemi-Con	270uF 16V Aluminum - Polymer Capacitors Radial, Can 10mOhm 20000 Hrs @ 105°C	RADIAL
C5, C6	2	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 uF, 35 V, +/- 20%, X5R, 1206	1206
C7, C9, C12, C13	4	10uF	GRM188R6YA106MA73D	Murata	CAP, CERM, 10 uF, 35 V, +/- 20%, X5R, 0603	0603
C8, C11, C19	3	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
C10	1	22pF	GRM1555C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C14, C21	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C16	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	0402
C17	1	33pF	GRM1555C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C18, C20	2	330pF	GRM155R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402	0402
C22	1	0.47uF	C1005X5R1A474K050BB	TDK	CAP, CERM, 0.47 uF, 10 V, +/- 10%, X5R, 0402	0402
C23	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
C24	1	0.1uF	C1808W104KBRACU	Kemet	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1808	1808
C25, C100	2	0.01uF	GCM155R71E103KA37D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402
D1	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D2	1	200V	PDS3200-13	Diodes Inc.	Diode, Schottky, 200 V, 3 A, PowerDI5	PowerDI5
D3	1	16.2V	DF2B18FU.H3F	Toshiba	Diode, TVS, Bi, 16.2 V, SOD-323	SOD-323
J2	1		GRP042MWCN-RC	Sullins Connector Solutions	Header, 1.27mm, 4x2, Gold, R/A, TH	Header, 1.27mm, 4x2, R/A, TH
J4	1		GRPB102MWCN-RC	Sullins Connector Solutions	Header, 50mil, 10x2, Gold, R/A, TH	10x2 50mil R/A Header
Q1, Q4	2	30V	CSD17575Q3	Texas Instruments	MOSFET, N-CH, 30 V, 60 A, DQG0008A (VSON-CLIP-8)	DQG0008A
Q2	1	600V	BSS126H6327XTSA2	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
Q3	1	40 V	MMBT2222ATT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, AEC-Q101, SOT-416	SOT-416
Q200	1	-20V	DMP22D6UT-7	Diodes Inc.	MOSFET, P-CH, -20 V, -0.43 A, AEC-Q101, SOT-523	SOT-523
R1	1	1.0Meg	CRCW12061M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R2, R4, R30	3	121k	CRCW0402121KFKED	Vishay-Dale	RES, 121 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R3	1	0.01	CSR1206FK10L0	Stackpole Electronics Inc	RES, 0.01, 1%, 0.5 W, 1206	1206
R5, R9	2	511	CRCW0402511R1FKED	Vishay-Dale	RES, 511, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6, R29	2	51.1k	CRCW0402511K1FKED	Vishay-Dale	RES, 51.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7, R32, R200	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R8	1	9.31k	CRCW04029K31FKED	Vishay-Dale	RES, 9.31 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10	1	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11	1	10.0k	MCR01MRTF1002	Rohm	RES, 10.0 k, 0.1%, 0.063 W, 0402	0402
R12, R22, R24, R25	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R13	1	150	CRCW0402150R1FKED	Vishay-Dale	RES, 150, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R14	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R15	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	1.05k	ERA-2AEB1051X	Panasonic	RES, 1.05 k, 0.1%, 0.063 W, 0402	0402
R17	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R18	1	41.2k	CRCW040241K2FKED	Vishay-Dale	RES, 41.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R19	1	100k	RG1005P-104-B-T5	Susumu Co Ltd	RES, 100 k, 0.1%, 0.063 W, 0402	0402
R20	1	30.9k	ERA-2AEB3092X	Panasonic	RES, 30.9 k, 0.1%, 0.063 W, 0402	0402
R21	1	187k	CRCW0402187KFKED	Vishay-Dale	RES, 187 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R23	1	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R27	1	100	CRCW0402100R1FKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R28	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R31	1	3.74k	CRCW04023K74FKED	Vishay-Dale	RES, 3.74 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R201	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
RT1	1	46.4k	CRCW060346K4FKEA	Vishay-Dale	RES, 46.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
U1	1		LMG2610	Texas Instruments	Integrated 650-V GaN Half-Bridge for Active Clamp Flyback Converters	VQFN40
U2	1		LM74800	Texas Instruments	Ideal Diode Controller with Load Dump Protection	WS0N12
U3	1		UCC28782ARTW	Texas Instruments	UCC28782ARTW, RTW0024B (WQFN-24)	RTW0024B
U4	1		LM4040A50IDCKR	Texas Instruments	Precision Micropower Shunt Voltage Reference, 0.1% accuracy, 5 V, 15 ppm / degC, 15 mA, -40 to 85 degC, 5-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0005A
U5	1		TLP383(GR-TPL,E	Toshiba	Optoisolator Transistor Output 5000Vrms 1 Channel 6-SO	SO6-4
U6	1		OPA170AIDRLT	Texas Instruments	MicroPower, Rail-to-Rail Output, General Purpose Operational Amplifier, 2.7 to 36 V, -40 to 125 degC, 5-pin SOT23 (DRL5), Green (RoHS & no Sb/Br)	DRL0005A
U7	1		TPS7A1901DRBR	Texas Instruments	40-V, 450-mA, Low IQ, Low-Dropout Voltage Regulator with Power Good, DRB0008B (VSON-8)	DRB0008B
D101	0	20V	MMSZ4707-E3-08	Vishay-Semiconductor	Diode, Zener, 20 V, 500 mW, SOD-123	SOD-123
R26	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402