

PMP22477 REV D Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C51	1	100pF	885012006057	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C43	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C17	1	270pF	GRM1885C1H271JA01D	MuRata	CAP, CERM, 270 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C13	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C7, C8	2	1000pF	C1608X7R2A102K080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C9, C10, C11, C18, C50	5	1000pF	885012206083	Würth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C37	1	2200pF	06031C222KAT2A	AVX	CAP, CERM, 2200 pF, 100 V, +/- 10%, X7R, 0603	0603
C41	1	0.015uF	C1608X7R1H153K080AA	TDK	CAP, CERM, 0.015 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C2, C3, C4, C5	4	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
C14, C16	2	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
C12, C38	2	0.047uF	GRM188R71C473KA01D	MuRata	CAP, CERM, 0.047 uF, 16 V, +/- 10%, X7R, 0603	0603
C19, C20, C45, C47	4	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
C15, C36, C40, C44	4	1uF	GRJ188R71E105KE11D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C24, C28, C39	3	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C25, C26, C27	3	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C30, C31, C32, C33, C34, C35, C52, C53	8	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C1, C6	2	1000pF	GR443QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
C21, C22	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V, +/- 10%, X7R, 1812	1812
C29	1	220uF	EEE-FK1E221P	Panasonic	CAP, AL, 220 uF, 25 V, +/- 20%, 0.16 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C23	1	47uF	EEE-FK1K470P	Panasonic	CAP, AL, 47 uF, 80 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
D1, D2, D3, D4, D5, D6, D7, D8	8	100V	B2100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 2 A, SMB	SMB
D9	1	100V	BAS316,115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
D10	1	40V	PDS1040L-13	Diodes Inc.	Diode, Schottky, 40 V, 10 A, PowerDI5	PowerDI5
D11	1	60V	FSV1060V	Fairchild Semiconductor	Diode, Schottky, 60 V, 10 A, TO-277A	TO-277A
D12	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D13	1	58V	SMBJ58A-13-F	Diodes Inc.	Diode, TVS, Uni, 58 V, 93.6 Vc, SMB	SMB
D14, D15	2	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
J1, J2	2		1-406541-1	TE Connectivity	RJ45, No LED, tab up, R/A, TH	16.26x14.54x15.75
J5, J6, J7, J8, J9, J14	6		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
J11, J13	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1, L3	2	300 ohm	742792641	Würth Elektronik	Ferrite Bead, 300 ohm @ 100 MHz, 2 A, 0603	0603
L2	1	250uH	744272251	Würth Elektronik	Coupled inductor, 250 uH, A, 0.035 ohm, SMD	8.7x10mm
L4, L6	2	80 ohm	742792115	Würth Elektronik	Ferrite Bead, 80 ohm @ 100 MHz, 4 A, 1206	1206
L5	1	5uH	744273501	Würth Elektronik	Coupled inductor, 5 uH, A, 0.0055 ohm, SMD	SMD, 4-Leads, Body 9.5x8.3mm
L7	1	3.3uH	LPS4018-332MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 3.3 uH, 1.9 A, 0.08 ohm, SMD	LPS4018
Q1, Q2, Q3, Q4, Q5	5	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
Q6	1	150V	FDMS86252	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 4.6 A, PQFN08A	PQFN08A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R48, R49, R52, R55, R59, R60, R73, R101	8	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R61	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R1, R2, R3, R4, R5, R6, R7, R8	8	75.0	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R32, R33	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R26, R34, R38, R39, R40, R72	6	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R31	1	1.69k	CRCW06031K69FKEA	Vishay-Dale	RES, 1.69 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R24	1	2.94k	CRCW06032K94FKEA	Vishay-Dale	RES, 2.94 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R100	1	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R29	1	3.92k	CRCW06033K92FKEA	Vishay-Dale	RES, 3.92 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R27	1	4.22k	CRCW06034K22FKEA	Vishay-Dale	RES, 4.22 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14, R58	2	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R22	1	8.06k	CRCW06038K06FKEA	Vishay-Dale	RES, 8.06 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9, R10, R11, R12, R13, R15, R20, R35, R44, R56	10	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R57, R62	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R50	1	24.9k	RC0603FR-0724K9L	Yageo	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R71	1	25.5k	RC0603FR-0725K5L	Yageo	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R54	1	35.7k	RC0603FR-0735K7L	Yageo	RES, 35.7 k, 1%, 0.1 W, 0603	0603
R47	1	39.2k	CRCW060339K2FKEA	Vishay-Dale	RES, 39.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R25, R30, R37	3	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R64	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R53	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R41	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R21	1	196k	CRCW0603196KFKEA	Vishay-Dale	RES, 196 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R28	1	280k	CRCW0603280KFKEA	Vishay-Dale	RES, 280 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R74	1	499k	CRCW0603499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R45	1	3.90	ERJ-6RQF3R9V	Panasonic	RES, 3.90, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R68	1	31.6	CRCW080531R6FKEA	Vishay-Dale	RES, 31.6, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R69	1	130	CRCW0805130RFKEA	Vishay-Dale	RES, 130, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R66	1	15	CRCW120615R0JNEA	Vishay-Dale	RES, 15, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R46	1	3.0k	CRCW12063K00JNEA	Vishay-Dale	RES, 3.0 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R17	1	39k	CRCW120639K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R67	1	0.05	CSRN2010FK50L0	Stackpole Electronics Inc	RES, 0.05, 1%, 1 W, 2010	2010
R42, R43	2	15	CRCW251215R0JNEG	Vishay-Dale	RES, 15, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
T1	1	350uH	7490220122	Würth Elektronik	Transformer, 350 uH, SMT	14.7x18.29mm
T2	1		LDT9055-51R	LinkCom	Transformer	SMT_27MM5_26MM0
(ALT T2)	0		750320319	Würth Elektronik		
(ALT T2)	0		PS21-212	Sumida		
U3, U4, U5, U6, U7, U11	6		FOD817DS	Fairchild Semiconductor	Optocoupler, 5 kV, 300-600% CTR, SMT	DIP-4L Gullwing
U8	1		TLV4376IPWR	Texas Instruments	General Purpose Amplifier 4 Circuit Rail-to-Rail 14-TSSOP	TSSOP14
U9	1		LM4040DIM3-5.0/NOPB	Texas Instruments	Precision Micropower Shunt Voltage Reference, DBZ0003A (SOT-23-3)	DBZ0003A
U10	1		TPS23730RMT	Texas Instruments	TPS23730RMT, RMT0045A (VQFN-45)	RMT0045A
C46	0	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C49	0	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
D17, D18	0	27V	MMBZ27VALT1G	ON Semiconductor	Diode, TVS, Uni, 27 V, SOT-23	SOT-23
J3, J4, J10, J12	0		999-11-110-10-000000	Mill-Max	Shorting Jumper, 2.54mm, 2 Position, Gold, TH	Shorting Jumper, 2.54mm, 2 Position, Gold, TH
Q8, Q9, Q10, Q11	0	65 V	BC 846PN H6327	Infineon Technologies	Transistor, NPN/PNP Pair, 65 V, 0.1 A, SOT-363	SOT-363
R23, R36	0	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R51	0	237k	RC0603FR-07237KL	Yageo	RES, 237 k, 1%, 0.1 W, 0603	0603
R63	0	75	CRCW201075R0JNEF	Vishay-Dale	RES, 75, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R65	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R70	0	750k	CRCW0603750KJNEA	Vishay-Dale	RES, 750 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R75, R76	0	162k	CRCW0603162KFKEA	Vishay-Dale	RES, 162 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
U1, U2	0		FDMQ8205A	Fairchild Semiconductor	GreenBridge 2 Series of High-Efficiency Bridge Rectifiers	4.5x5mm

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