

PMP4494 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C16, C17, C18	4	4.7uF	12063D475KAT2A	AVX	CAP, CERM, 4.7 μ F, 25 V, +/- 10%, X5R, 1206	1206
C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13	12	470uF	8.6508045702e+011	Würth Elektronik	CAP, AL, 470 μ F, 25 V, +/- 20%, 0.15 ohm, SMD	D10xL10.5mm
C14	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 μ F, 50 V, +/- 5%, X7R, 0603	0603
C15, C19, C23, C28, C29, C32	6	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
C20	1	100uF	C1210C107M9PACTU	Kemet	CAP, CERM, 100 μ F, 6.3 V, +/- 20%, X5R, 1210	1210
C21, C25	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1uF, 25V, +10/%, X5R, 0603	0603
C22	1	4700pF	06031C472JAT2A	AVX	CAP, CERM, 4700 pF, 100 V, +/- 5%, X7R, 0603	0603
C24	1	120pF	06035A121JAT2A	AVX	CAP, CERM, 120 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C30	1	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10 μ F, 25 V, +/- 10%, X5R, 1206	1206
C31	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C33	1	100uF	EEE-FC1C101P	Panasonic	CAP, AL, 100 μ F, 16 V, +/- 20%, 0.4 ohm, SMD	SMT Radial E
C34	1	100uF	EEE-FC1A101P	Panasonic	CAP, AL, 100 μ F, 10 V, +/- 20%, 0.4 ohm, SMD	SMT Radial E
D1	1	30V	MBR130LSFT1G	ON Semiconductor	Diode, Schottky, 30 V, 1 A, SOD-123FL	SOD-123FL
J2	1		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1	1	22uH	74437324220	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 22 μ H, 1 A, 0.47 ohm, SMD	4.45x1.8x4.06mm
L2	1	15uH	74437349150	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 15 μ H, 1.7 A, 0.066 ohm, SMD	7050
Q1, Q2	2	-30V	SI2343CDS-T1-GE3	Vishay-Siliconix	MOSFET, P-CH, -30 V, -5.9 A, SOT-23	SOT-23
Q3, Q4, Q5	3	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
R1, R2, R7	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R3	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R4	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R5	1	130k	CRCW0603130KFKEA	Vishay-Dale	RES, 130 k, 1%, 0.1 W, 0603	0603
R6	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603
R8	1	200k	RC0603FR-07200KL	Yageo America	RES, 200 k, 1%, 0.1 W, 0603	0603
R9	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R10	1	12.1k	CRCW060312K1FKEA	Vishay-Dale	RES, 12.1 k, 1%, 0.1 W, 0603	0603
R12, R15	2	51.0	RC0603FR-0751RL	Yageo America	RES, 51.0, 1%, 0.1 W, 0603	0603
R13	1	47	PNP300JR-73-100R	Yageo America	RES, 100, 5%, 3 W, TH	3W Axial resistor
R16	1	4.70k	RC0603FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.1 W, 0603	0603
R17, R18, R20, R21	4	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R19	1	120k	RC0603FR-07120KL	Yageo America	RES, 120 k, 1%, 0.1 W, 0603	0603
R23	1	240k	RC0603FR-07240KL	Yageo America	RES, 240 k, 1%, 0.1 W, 0603	0603
U1	1		TPS61170DRV	Texas Instruments	1.2A High Voltage Boost Converter in 2x2mm QFN Package, DRV0006A	DRV0006A
U2	1		LM20242MH	Texas Instruments	36V, 2A PowerWise Adjustable Frequency Synchronous Buck Regulator, 20-pin TSSOP-EP	MXA20A
U3	1		TLV809I50DBZR	Texas Instruments	3-Pin Voltage Supervisors with Active-Low, Open-Drain Reset, DBZ0003A	DBZ0003A

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C26, C27	0	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 μ F, 50 V, +/- 5%, X7R, 0603	0603
R11, R14	0	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R22	0	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, 0603	0603

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