

## PMP22194 REV 1B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB1	1		PMP22194	Any	Printed Circuit Board	
C1	1		CL10B104KB8NNNC	Samsung	CAP CER 0.1UF 50V X7R 0603	0603
C2, C3, C4, C5, C6, C7	6	22uF	CL32B226KAJNFNE	Samsung Electro-Mechanics	CAP, CERM, 22 µF, 25 V,+/- 10%, X7R, 1210	1210
C8, C14	2	4.7uF	CL31B475KAHNFNE	Samsung	CAP, CERM, 4.7uF, 25V, X7R, 10%, 1206	1206
C9	1	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C10	1	1uF	CL21B105KBFNNNG	Samsung	CAP, CERM, 1uF, 50V, X7R, 10%, 0805	0805
C11, C12	2	0.22uF	CL05B224KO5NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.22 µF, 16 V,+/- 10%, X7R, 0402	0402
C15, C17	2	100uF	GRM31CR60J107KE39L	Murata	CAP, CERM, 100uF, 6.3V, X5R, 10%, 1206	1206
C16, C18	2	470uF	2R5TPE470M9	Panasonic	CAP, Molded Tantalum Polymer, 470uF, 2.5V, +/-20%, 9mOhm ESR, SMT	2917
C19	1	1000pF	CL10B102KB8NNNC	Samsung Electro-Mechanics	CAP, CERM, 1000 pF, 50 V,+/- 10%, X7R, 0603	0603
D1	1	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1	1		108-0902-001	Cinch Connectivity	Banana Jack Insul Nylon Red, TH	Banana Jack Insul Nylon Red, TH
J2	1		108-0903-001	Cinch Connectivity	Banana Jack Insul Nylon Black, TH	Banana Jack Insul Nylon Black, TH
Jx1	1		U.FL-R-SMT-1(01)	Hirose Electric Co. Ltd.	Receptacle, Ultra Miniature Coaxial, Male Pin, 50 ohm, SMT	Ultra small CO-AX SMD
L2	1	0.56uH	XAL6030-561	Coilcraft	Inductor, Wirewound, Composite, 0.56uH, 29A Isat, 3.4 mOhm, SMT	6030
L4	1	36nH	SLC7649S-360KLB	Coilcraft	Inductor, Shielded, Ferrite, 36 nH, 39 A, 0.00017 ohm, SMD	7.62x4.96x7.49mm
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1	1	-50/50V	RN4907FE_LF(CT)	Toshiba	Bipolar Transistors - Pre-Biased Bias Resistor Built-in transistor	SOT-6
R1	1	2.00	CRCW06032R00FKEA	Vishay-Dale	RES, 2.00, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
R3	1	665	CRCW0402665RFKED	Vishay-Dale	RES, 665, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4, R5, R6	3	1.58k	CRCW04021K58FKED	Vishay-Dale	RES, 1.58 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7, R9, R12	3	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R8	1	249k	CRCW0402249KFED	Vishay-Dale	RES, 249 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10, R15	2	187k	CRCW0402187KFED	Vishay-Dale	RES, 187 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11	1	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R13	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R18	1	51k	CRCW040251K0JNED	Vishay-Dale	RES, 51 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R20	1	100k	CRCW0402100KFED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R21	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
Rx1	1	49.9	RC0402FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.063 W, 0402	0402
TP1	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP5, TP9	3		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP3, TP4, TP6, TP7	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP8	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		TPS543B20RVFT	Texas Instruments	4-19Vin 25A Stackable Synchronous Step-down SWIFT(TM) Converter w/ Adaptive Internal Compensation, RVF0040A (LQFN-CLIP-40)	RVF0040A
C13	0	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
J3	0		U.FL-R-SMT-1(01)	Hirose Electric Co. Ltd.	Receptacle, Ultra Miniature Coaxial, Male Pin, 50 ohm, SMT	Ultra small CO-AX SMD
L1	0	500nH	XAR7030-501MEB	Coilcraft	Inductor, Shielded, Composite, 500 nH, 17.5 A, 0.0033 ohm, SMD	8.5x8.5mm
L3	0	450nH	MLC1240-451MLB	Coilcraft	Inductor, Square Pot Core, Powdered Iron, 450 nH, 19.8 A, 0.00173 ohm, SMD	11.2x4.1x10.5mm
R14	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
R17	0	187k	CRCW0402187KFKED	Vishay-Dale	RES, 187 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R19	0	49.9	RC0402FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.063 W, 0402	0402

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