

PMP21939 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB1	1		PMP21939	Any	Printed Circuit Board	
C1, C4, C14, C17	4	1uF	GCM188R71C105MA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	0603
C2, C5, C15, C19	4	1000pF	CGA2B2X7R1H102K050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C3, C6, C10, C16, C18, C34	6	0.1uF	CGA3E2X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C7	1	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
C8, C9	2	4.7uF	CGA6P3X7R1H475K250AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C11, C12, C21, C22, C23, C25, C27, C28, C31, C32, C33	11	22uF	GCM31CR71A226KE02	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C13	1	1uF	GCM155C71A105KE38D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
C20, C26, C30	3	22pF	CGA2B2NP01H220J050BA	TDK	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C24, C29, C35	3	4700pF	CGA2B3X7S2A472K050BB	TDK	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
C36, C37, C38	3	0.1uF	CGA2B3X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
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
J1, J2, J6, J8, J9, J12, J15, J17, J19	9		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
J3, J4, J5, J10, J11, J13, J16, J18	8		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
J7, J14	2		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
L1	1	1.5uH	XEL4020-152MEB	Coilcraft	Inductor, Shielded, Composite, 1.5 uH, 7.4 A, 0.0215 ohm, AEC-Q200 Grade 1, SMD	
L2, L4	2		XEL3520-471ME	Coilcraft	Shielded Power Inductor, 0.47uH, AEC-Q200	SMD2
L3	1		XEL3520-561ME	Coilcraft	Shielded Power Inductors	SMT_IND_3MM2_3M M5
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
R1, R2, R4, R8, R9, R10, R15, R21, R29	9	10.0k	ERJPA2F1002X	Panasonic	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
R3, R5, R13, R18, R25	5	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	43.2k	CRCW040243K2FKED	Vishay-Dale	RES, 43.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7	1	59.0k	CRCW040259K0FKED	Vishay-Dale	RES, 59.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R14, R19, R26	3	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	88.7k	CRCW040288K7FKED	Vishay-Dale	RES, 88.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R17	1	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R20	1	200k	ERJ-2RKF2003X	Panasonic	RES, 200 k, 1%, 0.1 W, 0402	0402
R23	1	39.2k	CRCW040239K2FKED	Vishay-Dale	RES, 39.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R24	1	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
R28	1	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
R30, R31	2	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
TP1, TP2, TP3, TP4, TP6, TP7, TP9, TP11, TP12	9		5129	Keystone	Test Point, Multipurpose, Purple, TH	Purple Multipurpose Testpoint

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TP5, TP8, TP10, TP13	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1, U3	2		TPS22968NQDMGRQ1	Texas Instruments	5.5V, 4A, 27mΩ, 2-Ch Automotive Load Switch With Quick Output Discharge and Adjustable Rise Time, DMG0010A (WSON-10)	DMG0010A
U2	1		LM63635DQPWPTQ1	Texas Instruments	3.5-V to 36-V, 3.5-A Synchronous Step-Down Voltage Regulator with Spread Spectrum, PWP0016D (TSSOP-16)	PWP0016K
U4, U5, U7	3		TPS62810QWRWYRQ1	Texas Instruments	Automotive Low Input Voltage, Adjustable-Frequency Step-down Converter, RWY0009A (VQFN-HR-9)	RWY0009A
U6	1		LSF0101DRYR	Texas Instruments	Single Bi-Directional Multi-Voltage Level Translator, DRY0006A (USON-6)	DRY0006A
C39	0	390pF	GCM155R71H391KA37D	MuRata	CAP, CERM, 390 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
R27	0	3.01	CRCW04023R01FKED	Vishay-Dale	RES, 3.01, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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