

PMP22030 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		PMP22030	Any	Printed Circuit Board	
2	1V1, 1V8, 3V3, 3V3LDO, 3V3SW, 5V, TP12, TP13, VIN1, VIN2	10		5129	Keystone	Test Point, Multipurpose, Purple, TH	Purple Multipurpose Testpoint
3	C1, C6, C7	3	1000pF	C0603C102J5RACAUTO	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C2	1	47uF	EEEF1H470AP	Panasonic	CAP, AL, 47 uF, 50 V, +/- 20%, 0.68 ohm, AEC-Q200 Grade 2, SMD	D6.3xL5.8mm
5	C3	1	1uF	UMK316B7105KLHT	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
6	C4	1	4.7uF	C3216X7R1H475K160AC	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206
7	C5, C9	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
8	C8	1	4.7uF	CGA6P3X7R1H475M250AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
9	C11, C21	2	0.22uF	C1005X7R1C224K050BC	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
10	C12, C13, C22, C23	4	4.7uF	CGA6P3X7R1H475K250AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
11	C14, C24	2	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	C15, C16, C25, C26, C27, C29	6	22uF	GCM31CR71A226KE02	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
13	C17, C28, C37	3	0.1uF	GCM155R71A104KA55D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
14	C18, C19, C30, C33, C34, C35	6	1uF	GCM155C71A105KE38D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
15	C31, C32	2	0.01uF	GRM155R71C103KA01D	MuRata	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
16	C36	1	390pF	GCM155R71H391KA37D	MuRata	CAP, CERM, 390 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
17	D1	1	40V	SL44HE3_A/H	Vishay-Semiconductor	Diode, Schottky, 40 V, 4 A, AEC-Q101, SMC	SMC
18	D2	1	36V	SM6T42CAY	STMicroelectronics	Diode, TVS, Bi, 36 V, 76 Vc, AEC-Q101, SMB	SMB
19	GND, GNDS, GNDS1	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
20	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
21	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
22	J1	1		6091	Keystone	Standard Banana Jack, Insulated, Red	6091
23	J2	1		6092	Keystone	Standard Banana Jack, Insulated, Black	6092
24	J3, J4, J5, J6, J7, J8, J9, J10, J11	9		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
25	L1	1	600 ohm	FBMH3225HM601NT	Taiyo Yuden	Ferrite Bead, 600 ohm @ 100 MHz, 3 A, 1210	1210
26	L2	1		78438336022	Wurth Electronics	WE-MAIA SMD Power Inductor	SMD2
27	L3	1	11uH	744273102	Wurth Elektronik	Coupled inductor, 11 uH, 2.5 A, 0.03 ohm, SMD	SMD, 4-Leads, Body 9.5x8.3mm
28	L4	1	3.3uH	VCTA32251B-3R3MS6	Cyntec	Inductor, 3.3 uH, 2 A, 0.127 ohm, SMD	3.2x2.5x1.2mm
29	L5	1	1.5uH	VCTA32251B-1R5MS6	Cyntec	Inductor, 1.5 uH, 3.1 A, 0.054 ohm, SMD	3.2x2.5x1.2mm
30	L6	1	470nH	DFE201612E-R47M=P2	MuRata	Inductor, Shielded, Metal Composite, 470 nH, 4.5 A, 0.026 ohm, SMD	2x1.6mm
31	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
32	R1	1	0.51	ERJ-3RQFR51V	Panasonic	RES, 0.51, 1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
33	R3, R5, R9, R12	4	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
34	R4, R6, R7, R10, R13, R14, R16, R17, R18, R19, R20, R21	12	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R11	1	37.4k	CRCW040237K4FKED	Vishay-Dale	RES, 37.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R15	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	U1	1		LM63615DQPWPRQ1	Texas Instruments	3.5-V to 36-V, 1.5-A Synchronous Step-Down Voltage Regulator with Spread Spectrum, PWP0016K (HTSSOP-16)	PWP0016K
38	U2	1		TLV73333PQDBVRQ1	Texas Instruments	Automotive capacitor-free 300-mA LDO regulator with foldback current limit for portable devices, DBV0005A (SOT-23-5)	DBV0005A
39	U3	1		LM63625DQPWPTQ1	Texas Instruments	3.5-V to 36-V, 2.5-A Synchronous Step-Down Voltage Regulator with Spread Spectrum, PWP0016D (TSSOP-16)	PWP0016K
40	U4	1		TPS62090RGTR	Texas Instruments	3A, 6V input, up to 97% efficiency, Synchronous Step Down Converter with DCS(TM) Control, RGT0016C (VQFN-16)	RGT0016C
41	U5	1		TPS22918TDBVRQ1	Texas Instruments	5.5V, 2A, 52mQ Automotive High-Side Load Switch with Adjustable Rise Time & Quick Output Discharge, DBV0006A (SOT-23-6)	DBV0006A
42	U6	1		LP5912Q1.8DRVVRQ1	Texas Instruments	Automotive 500-mA Low-Noise, Low-IQ LDO, DRV0006A (WSON-6)	DRV0006A
43	U7	1		TPS3851G18EDRBR	Texas Instruments	High-Accuracy Voltage Supervisor With Integrated Watchdog Timer, DRB0008A (VSON-8)	DRB0008A
44	C10, C20	0	390pF	GCM155R71H391KA37D	MuRata	CAP, CERM, 390 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
45	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
46	R2, R8	0	3.0	ERJ-6GEYJ3R0V	Panasonic	RES, 3.0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805

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