

PMP22648 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP22648	Any	Printed Circuit Board	
C2, C7, C9	3	4.7uF	GCM31CC71H475KA03L	MuRata	CAP, CERM, 4.7 μ F, 50 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1206	1206
C3	1	1uF	GCM21BR71H105KA03K	MuRata	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C4	1	0.22uF	GCM155R71C224KE02	MuRata	CAP, CERM, 0.22 μ F, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C5, C6, C10	3	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C8	1	47uF	EEEFT1H470AP	Panasonic	CAP, AL, 47 μ F, 50 V, +/- 20%, 0.68 ohm, AEC-Q200 Grade 2, SMD	D6.3xL5.8mm
C11, C12, C24	3	22uF	CL32B226KOJVPNE	Samsung Electro-Mechanics	CAP, CERM, 22 μ F, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C13, C15, C16	3	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 μ F, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C14	1	1uF	GCM155C71A105KE38D	MuRata	CAP, CERM, 1 μ F, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
C17, C18, C22, C27, C33, C38	6	0.1uF	GCM188R71C104KA37J	MuRata	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C19, C21, C25, C29, C31	5	10uF	CGA4J1X7S1C106K125AC	TDK	CAP, CERM, 10 μ F, 16 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0805	0805
C20, C26, C32	3	22uF	GCM31CR70J226ME23L	MuRata	CAP, CERM, 22 μ F, 6.3 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1206	1206
C23	1	220pF	CGA3E2C0G1H221J080AA	TDK	CAP, CERM, 220 pF, 20 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C28, C34, C35, C37	4	0.1uF	GCM155R71A104KA55D	MuRata	CAP, CERM, 0.1 μ F, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C30, C36, C42	3	10pF	GCM1555C1H100JA16D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
GND, TP8, TP11, TP14, TP16, TP17, TP18, TP19	8		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
J1, J3, J6, J7, J8, J10, J12, J14	8		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
J2	1		6091	Keystone	Standard Banana Jack, Insulated, Red	6091
J4, J17	2		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
J5	1		6092	Keystone	Standard Banana Jack, Insulated, Black	6092
J9, J11, J13	3		691214000000	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
J16	1		800-10-004-10-001000	Mill-Max	Header, 100mil, 4x1, TH	Header, 4x1, 100mil, TH
L1	1	1.5uH	LQH5BPN1R5N38L	MuRata	Inductor, Wirewound, Ferrite, 1.5 μ H, 4.5 A, 0.0168 ohm, SMD	4.9x4.9x4.3mm
L2, L4	2	600 ohm	FBMH3225HM601NT	Taiyo Yuden	Ferrite Bead, 600 ohm @ 100 MHz, 3 A, 1210	1210
L3	1	2.2uH	LQH5BPN2R2N38L	MuRata	Inductor, Wirewound, Ferrite, 2.2 μ H, 4.3 A, 0.0192 ohm, SMD	4.9x4.9x4.3mm
L5, L6, L7, L8	4	470nH	DFE201612E-R47M=P2	MuRata	Inductor, Shielded, Metal Composite, 470 nH, 4.5 A, 0.026 ohm, SMD	2x1.6mm
R2, R6, R7, R8, R17, R21, R27, R33	8	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R3, R11, R14, R18, R24	5	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
R4	1	0.51	ERJ-3RQFR51V	Panasonic	RES, 0.51, 1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
R5, R16, R19, R25, R31	5	49.9	ERJ-2RKF49R9X	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R9, R13, R15, R20, R26, R32	6	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10, R12	2	0	CRCW12060000Z0EAHP	Vishay-Dale	RES, 0, 0.75 W, AEC-Q200 Grade 0, 1206	1206
R22	1	232k	CRCW0402232KFKED	Vishay-Dale	RES, 232 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R23, R29, R35	3	51.0k	ERJ-2RKF5102X	Panasonic	RES, 51.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R28	1	64.9k	CRCW040264K9FKED	Vishay-Dale	RES, 64.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R30	1	0	PMR10EZPJ000	Rohm	RES, 0, 0%, W, AEC-Q200 Grade 0, 0805	0805
R34	1	49.9k	ERJ-2RKF4992X	Panasonic	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
TP1, TP5, TP7, TP10, TP13	5		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
TP2, TP3, TP4, TP6, TP9, TP12, TP15, VBAT	8		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
U1	1		LM63625DQDRRRQ1	Texas Instruments	3.5-V to 36-V, 2.5-A, Automotive Step-down Voltage Converter, DRR0012E (WSO-12)	DRR0012E
U2	1		TLV73333PQDBVRQ1	Texas Instruments	Automotive capacitor-free 300-mA LDO regulator with foldback current limit for portable devices, DBV0005A (SOT-23-5)	DBV0005A
U3	1		TPS22965QWDSGRQ1	Texas Instruments	5.5V, 4A, 16mΩ Automotive Load Switch With Adjustable Rise Time and Optional Quick Output Discharge, DSG0008B (WSO-8)	DSG0008B
U4, U5, U6, U7	4			Texas Instruments	2.7-V to 6-V Adjustable-Frequency Step-Down Converter in SOT583 Package	FCSOT8
C1	0	390pF	GCM155R71H391KA37D	MuRata	CAP, CERM, 390 pF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
J15	0		691214000000	Würth Elektronik	Terminal Block, 3.5mm, 2x1, Tin, TH	Receptacle, 3.5mm, 2x1, TH
R1	0	3.0	ERJ-6GEYJ3R0V	Panasonic	RES, 3.0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R36	0	324	CRCW0603324RFKEA	Vishay-Dale	RES, 324, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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