

PMP30548 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PMP30548	Any	Printed Circuit Board	
2	C7, C10, C17, C18, C31, C51	6	10uF	GRJ32ER71H106KE11L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
3	C8, C9, C11, C16, C21, C26, C27, C32, C34, C37, C38, C52, C54	13	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
4	C12	1	0.033uF	GRM155R71C333KA01D	MuRata	CAP, CERM, 0.033 uF, 16 V, +/- 10%, X7R, 0402	0402
5	C13	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	0402
6	C14	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	0402
7	C15	1	2200pF	GRM155R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
8	C20	1	2000pF	GRM188R71H202KA01D	MuRata	CAP, CERM, 2000 pF, 50 V, +/- 10%, X7R, 0603	0603
9	C22, C24, C35	3	4.7uF	885012207025	Würth Elektronik	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7R, 0805	0805
10	C23	1	2.2uF	C3216X7R1H225K160AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
11	C25, C36	2	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, 0603	0603
12	C28, C29, C30, C39, C40	5	47uF	GCM32ER70J476ME19L	MuRata	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X7R, 1210	1210
13	D4	1	70V	NUP1301ML3T1G	ON Semiconductor	Diode, Standard Recovery Rectifier, 70 V, 0.215 A, AEC-Q101, SOT-23	SOT-23
14	D5	1	45V	PDS1045-13	Diodes Inc.	Diode, Schottky, 45 V, 10 A, PowerDI5	PowerDI5
15	D6	1	16V	DDZ16Q-7	Diodes Inc.	Diode, Zener, 16 V, 310 mW, AEC-Q101, SOD-123	SOD-123
16	FID1, FID2, FID3	3	N/A	N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
17	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
18	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
19	J1, J3, J4, J5	4		691411510002	Würth Elektronik	Receptacle, 5.08mm, 2x1, INOX Steel, R/A, TH	Receptacle, 5.08mm, 2x1, R/A, TH
20	J2	1		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
21	L1, L2	2	1uH	IHLP2525CZER1R0M01	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 1 uH, 11 A, 0.009 ohm, SMD	IHLP-2525CZ
22	L3, L4	2	2.2uH	IHLP1616BZER2R2M11	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 2.2 uH, 3.25 A, 0.061 ohm, SMD	4.7x2.0x4.3mm
23	Q3	1	-40V	DMP4013LFGQ-13	Diodes Inc.	MOSFET, P-CH, -40 V, -10.3 A, AEC-Q101, 8-PowerVDFN	8-PowerVDFN
24	Q4	1	80V	SQSA80ENW-T1_GE3	Vishay-Siliconix	MOSFET, N-CH, 80 V, 18 A, AEC-Q101, PowerPAK 1212	PowerPAK 1212
25	R1	1	3.01	CRCW06033R01FKEA	Vishay-Dale	RES, 3.01, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R2	1	470k	CRCW0603470KJNEA	Vishay-Dale	RES, 470 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
27	R4	1	10.5k	CRCW040210K5FKED	Vishay-Dale	RES, 10.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	R5	1	9.53k	RT0603BRD079K53L	Yageo America	RES, 9.53 k, 0.1%, 0.1 W, 0603	0603
29	R6	1	2.43k	RG1608P-2431-B-T5	Susumu Co Ltd	RES, 2.43 k, 0.1%, 0.1 W, 0603	0603
30	R7	1	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
31	R8	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
32	R9	1	7.5	CRCW06037R50JNEA	Vishay-Dale	RES, 7.5, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
33	R10	1	200k	CRCW0402200KJNED	Vishay-Dale	RES, 200 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R11	1	1.96	CRCW04021R96FKED	Vishay-Dale	RES, 1.96, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R12, R13	2	0	RC06030000Z0EA	Vishay-Dale	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
36	R14	1	100	ERJ-2GEJ101X	Panasonic	RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
37	R15	1	0.008	KRL2012M-R008-F-T1	Susumu Co Ltd	RES, 0.008, 1%, 1 W, AEC-Q200 Grade 0, 0508	0508
38	R16, R19, R21, R23	4	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
39	R18, R28	2	3.0	CRCW06033R00JNEA	Vishay-Dale	RES, 3.0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
40	R22	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
41	R26, R27	2	110k	CRCW0402110KJNED	Vishay-Dale	RES, 110 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
42	TP1, TP3, TP5, TP7	4		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
43	TP2, TP9, TP10	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
44	TP4, TP6, TP8	3		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
45	U3	1		LM5150QRUMTQ1	Texas Instruments	Wide VIN Automotive Low IQ Boost Controller, RUM0016C (WQFN-16)	RUM0016C
46	U4	1		LM53625LQRNLRQ1	Texas Instruments	2.5A, 36 V Synchronous, 2.1MHz, Automotive Step Down DC-DC Converter, RNL0022A (VQFN-HR-22)	RNL0022A
47	U5	1		LM53625NQRNLRQ1	Texas Instruments	2.5A, 36 V Synchronous, 2.1MHz, Automotive Step Down DC-DC Converter, RNL0022A (VQFN-HR-22)	RNL0022A

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