

PMP30524 REV B2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	1000pF	C1206C102KGRACAUTO	Kemet	CAP, CERM, 1000 pF, 2000 V,+/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C2	1	270uF	EEHZC1V271P	Panasonic	CAP, Polymer Hybrid, 270 µF, 35 V,+/- 20%, 20 ohm, 10x10 SMD	10x10
C3, C6, C7, C8	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V,+/- 10%, X7R, 1210	1210
C4, C9	2	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C5	1	100uF	EEHZC1H101P	Panasonic	CAP, Polymer Hybrid, 100 µF, 50 V,+/- 20%, 28 ohm, 10x10 SMD	10x10
C10	1	0.01uF	GRM21BR72A103MA01L	MuRata	CAP, CERM, 0.01 µF, 100 V, +/- 20%, X7R, 0805	0805
C12	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 0603	0603
C13, C18, C21	3	1uF	GRM188R71C105KA12D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603, CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0603	0603
C14	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
C15	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
C16	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, COG/NP0, 0603	0603
C19	1	3300pF	GRM188R71E332KA01D	MuRata	CAP, CERM, 3300 pF, 25 V,+/- 10%, X7R, 0603	0603
C20	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 5%, COG/NP0, 0603	0603
C101	1	220pF	GRM2165C2A221JA01D	MuRata	CAP, CERM, 220 pF, 100 V,+/- 5%, COG/NP0, 0805	0805
D1	1	100V	B3100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 3 A, SMC	SMC
D2	1	27V	MMSZ5254B-7-F	Diodes Inc.	Diode, Zener, 27 V, 500 mW, SOD-123	SOD-123
D3	1	100V	BAT46WH,115	Nexperia	Diode, Schottky, 100 V, 0.25 A, SOD-123F	SOD-123F
D5	1	30V	BAT54LP-7	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, 1.00x0.50x0.60mm	1.00x0.50x0.60mm
D6, D7	2	6V	MMSZ5233BS-7-F	Diodes Inc.	Diode, Zener, 6 V, 200 mW, SOD-323	SOD-323
D8	1	100V	MMSD914T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1	1	15uH	MSD1514-153MEB	Coilcraft	Coupled inductor, 15 µH, 3.4Arms, 0.028 ohm, SMD	15x15mm
Q1	1	100V	BSC070N10NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 100 V, 80 A, PG-TDSON-8	PG-TDSON-8
Q2	1	0.3V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40V, 0.15A, SOT-23	SOT-23
R1	1	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, 1206	1206
R3, R7	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R4	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R5, R6, R12, R19	4	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R8, R25	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R9	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R10, R24	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603, RES, 100 k, 1%, 0.1 W, 0603	0603
R11	1	0.02	WSP0805R0200FEB	Vishay-Dale	RES, 0.02, 1%, 0.5 W, 0805	0805
R13, R17	2	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R14, R15	2	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R18, R20	2	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R23	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R26	1	5.76k	CRCW06035K76FKEA	Vishay-Dale	RES, 5.76 k, 1%, 0.1 W, 0603	0603
R101	1	22	CRCW120622R0JNEA	Vishay-Dale	RES, 22, 5%, 0.25 W, 1206	1206
TP1	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP2, TP3	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP5, TP9	3	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP6, TP8	2		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		TPS40210DGQ	Texas Instruments	4.5-V TO 52-V INPUT CURRENT MODE BOOST CONTROLLER, DGQ0010D	DGQ0010D
U2	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
U3	1		TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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