

DNP = DO NOT POPULATE

PMP30693 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C3, C18, C20, C23	5	1uF	GRM21BR71A105KA01L	MuRata	CAP, CERM, 1 μ F, 10 V,+/- 10%, X7R, 0805	0805
C2, C10, C15, C19, C24, C28	6	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 μ F, 50 V,+/- 10%, X7R, 0603	0603
C4, C8, C14	3	10uF	GRM21BR70J106KE76L	MuRata	CAP, CERM, 10 μ F, 6.3 V,+/- 10%, X7R, 0805	0805
C5, C7, C9, C13, C26	5	DNP	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C6	1	1000uF	EKZM160ELL102MJ20S	Chemi-Con	CAP, AL, 1000 μ F, 16 V, +/- 20%, TH	D10xL20mm
C11	1	0.33uF	C0603C334K8RACTU	Kemet	CAP, CERM, 0.33 μ F, 16 V,+/- 10%, X7R, 0603	0603
C12	1	1.5uF	C0805C155K8RACTU	Kemet	CAP, CERM, 1.5 μ F, 10 V,+/- 10%, X7R, 0805	0805
C16, C22, C27	3	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C17, C25	2	25000000uF	SCCU25B256SRB	AVX	CAP, Electric Double Layer, 25000000 μ F, 2.7 V,+30/--10%, 0.027 ohm, TH	Dia 16mm
C21	1	22uF	CL21B226MQQNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 μ F, 6.3 V,+/- 20%, X7R, 0805	0805
C29	1	1uF	C0805C105K8RACTU	Kemet	CAP, CERM, 1 μ F, 10 V,+/- 10%, X7R, 0805	0805
D1, D2	2	10V	MBRA210LT3G	ON Semiconductor	Diode, Schottky, 10 V, 2 A, SMA	SMA
L1	1	470nH	XFL4015-471MEC	Coilcraft	Inductor, Shielded, Composite, 470 nH, 3.5 A, 0.0076 ohm, SMD	SMD, 4x4x1.5mm
Q1, Q2	2	40 V	MMBT2222A	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
R1, R40	2	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R2, R20, R22, R24, R34, R36, R43	7	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R3, R5, R18, R19, R27, R31, R39, R45	8	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R4, R9	2	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, 0603	0603
R6, R8, R13	3	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R7	1	0.068	ERJ-8BWF068V	Panasonic	RES, 0.068, 1%, 0.5 W, 1206	1206
R10	1	2.00k	CRCW08052K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.125 W, 0805	0805
R11	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R12	1	12.4k	CRCW060312K4FKEA	Vishay-Dale	RES, 12.4 k, 1%, 0.1 W, 0603	0603
R14, R15, R16	3	30.1	CRCW120630R1FKEA	Vishay-Dale	RES, 30.1, 1%, 0.25 W, 1206	1206
R17	1	392k	CRCW0603392KFKEA	Vishay-Dale	RES, 392 k, 1%, 0.1 W, 0603	0603
R21, R30	2	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R23	1	301k	CRCW0603301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.1 W, 0603	0603
R25, R32, R41	3	DNP	DNP	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R26	1	1.00k	CRCW08051K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.125 W, 0805	0805
R28	1	82.5k	CRCW060382K5FKEA	Vishay-Dale	RES, 82.5 k, 1%, 0.1 W, 0603	0603
R29	1	187k	CRCW0603187KFKEA	Vishay-Dale	RES, 187 k, 1%, 0.1 W, 0603	0603
R33, R42	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R35	1	43.2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2 k, 1%, 0.1 W, 0603	0603

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R37	1	3.01Meg	CRCW06033M01FKEA	Vishay-Dale	RES, 3.01 M, 1%, 0.1 W, 0603	0603
R38	1	90.9k	CRCW060390K9FKEA	Vishay-Dale	RES, 90.9 k, 1%, 0.1 W, 0603	0603
R44	1	100	CRCW0805100RJNEA	Vishay-Dale	RES, 100, 5%, 0.125 W, 0805	0805
TP1, TP2, TP3, TP9, TP10	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP5, TP6, TP11	4		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP7, TP8	2	STD	STD	STD	Test Point, 0.025"	
U1, U5	2		LM66100DCKT	Texas Instruments	+/-6V, Low IQ Ideal Diode with Input Polarity Protection, DCK0006A (SOT-SC70-6)	DCK0006A
U2	1		INA181A4IDBV	Texas Instruments	Bidirectional, Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifier, DBV0006A (SOT-6)	DBV0006A
U3	1		TLV431AIDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U4	1		TPS63802DLAR	Texas Instruments	High Current, High Efficiency Single Inductor Buck-Boost Converter, DLA0010A (VSON-HR-10)	DLA0010A
U6	1		TLV521DCKR	Texas Instruments	350-nA Nanopower, Single, RRIO, CMOS Input, Operational Amplifier for Cost-Sensitive Systems, DCK0005A (SOT-SC70-5)	DCK0005A
U7	1		TLV522DGKR	Texas Instruments	500-nA Nanopower, Dual, RRIO, CMOS-Input Operational Amplifier for Cost-Sensitive Systems, DGK0008A (VSSOP-8)	DGK0008A

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