

PMP30528 REV Bill of Materials



NOT POPULATE

C101 for test purposes

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
BT1	1		DNP	Memory Protection Devices	HOLDER CR2032 GOLD LEADS SMD	31.86x16mm
C1	1	10uF	GRM21BR71A106KE51K	MuRata	CAP, CERM, 10 µF, 10 V,+/- 10%, X7R, 0805	0805
C2, C3, C6, C7, C10, C14, C19, C21, C25	9	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C4, C8	2	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 µF, 25 V,+/- 10%, X7R, 0805	0805
C5, C23	2	DNP	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C9	1	10uF	GRM31CR70J106KA01L	MuRata	CAP, CERM, 10 µF, 6.3 V,+/- 10%, X7R, 1206	1206
C11	1	25F	HV1625-2R7256-R	Eaton	CAP, Electric Double Layer, 25000000 µF, 2.7 V,+30/-10%, 0.027 ohm, TH	Dia 16mm
C12	1	10uF		TDK	CAP, CERM, 10 uF, 6.3 V, +/- 10%, X7R, 1206	1206
C13	1	DNP	DNP	TDK	CAP, CERM, 1206	1206
C15	1	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0603	0603
C16, C18	2	10uF	GRM21BR70J106KE76L	MuRata	CAP, CERM, 10 µF, 6.3 V,+/- 10%, X7R, 0805	0805
C17	1	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0805	0805
C20	1	22uF	GRM31CR70J226KE19L	MuRata	CAP, CERM, 22 µF, 6.3 V,+/- 10%, X7R, 1206	1206
C22	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C24	1	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 µF, 10 V,+/- 20%, X7R, 1206	1206
C101	1	470uF	EKZE350ELL471MJ20S	Chemi-Con	CAP, AL, 470 µF, 35 V, +/- 20%, TH	D10xL20mm
D1	1	3.9V	BZX84C3V9LT1G	ON Semiconductor	Diode, Zener, 3.9 V, 225 mW, SOT-23	SOT-23
D2	1	15V	10BQ015	Vishay-Semiconductor	Diode, Schottky, 15 V, 1 A, SMB	SMB
D3	1	DNP	DNP	Diodes Inc.	Diode, Zener	SOD-523
D4	1	5.1V	MMBZ5231BLT1G	ON Semiconductor	Diode, Zener, 5.1 V, 225 mW, SOT-23	SOT-23
D5	1	DNP	DNP	ON Semiconductor	Diode, Zener	SOT-23
D6	1	30V	BAT54-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
L1	1	3.3uH	LPS3015-332MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 3.3 µH, 1.4 A, 0.13 ohm, SMD	LPS3015
L2	1	2.2uH	XFL4020-22MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 3.7 A, 0.02 ohm, SMD	4x2x4mm
L3	1	4.7uH	VLF302510MT-4R7M	TDK	Inductor, Shielded, Ferrite, 4.7 µH, 0.86 A, 0.168 ohm, SMD	IND_3x1x2.5mm
L4	1	1uH	XAL6030-102	Coilcraft	Inductor, Shielded, Composite, 1 µH, 21.5 A, 0.01 ohm, SMD	IND_6.4x3.1x6.6
Q1	1	-20V	CSD25402Q3A	Texas Instruments	MOSFET, P-CH, -20 V, -15 A, DNH0008A (VSONP-8)	DNH0008A
Q2	1	20V	CSD15571Q2	Texas Instruments	MOSFET, N-CH, 20 V, 10 A, DQK0006C (WSON-6)	DQK0006C
Q3	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
Q4	1	DNP	DNP	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R1, R13, R14, R19, R25, R28, R32, R37	8	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R2, R20, R23, R38	4	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R3	1	DNP	PNP300JR-73-47R	Yageo America	RES, 47, 5%, 3 W, 3W Axial resistor	3W Axial resistor
R4, R11	2	100	CRCW0805100RFKEA	Vishay-Dale	RES, 100, 1%, 0.125 W, 0805	0805
R5	1	SHORT	SHORT	Yageo America	RES, 3 W, 3W Axial resistor	3W Axial resistor
R6	1	1.96	RC1206FR-071R96L	Yageo America	RES, 5.0ohm, 1%, 0.25 W, 1206	1206
R7, R27, R31	3	49.9k	CRCW080549K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.125 W, 0805	0805
R8, R12	2	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R9, R24	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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R10, R16, R17, R29, R30, R33, R35, R36	8	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R15	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R18	1	464k	CRCW0603464KFKEA	Vishay-Dale	RES, 464 k, 1%, 0.1 W, 0603	0603
R21, R22	2	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R26	1	390	CRCW0805390RJNEA	Vishay-Dale	RES, 390, 5%, 0.125 W, 0805	0805
R34	1	562k	CRCW0603562KFKEA	Vishay-Dale	RES, 562 k, 1%, 0.1 W, 0603	0603
TP1, TP2, TP5, TP6, TP8	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4, TP7	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS62173DSGT	Texas Instruments	Buck Step Down Regulator with 3 to 17 V Input and 5 V Output, -40 to 85 degC, 8-Pin WSON (DSG), Green (RoHS & no Sb/Br)	DSG0008A
U2	1		TPS62147RGXT	Texas Instruments	1.25-MHz / 2.5-MHz High Accuracy 3-V to 17-V 2-A Step-Down Converter With DCS-Control, RGX0011A (VQFN-HR-11)	RGX0011A
U3	1		TL431CDBZTG4	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U4	1		TPS610981DSER	Texas Instruments	Low Input Voltage Synchronous Boost Converter with Integrated LDO/Load Switch, DSE0006A (WSON-6)	DSE0006A
U5	1		TPS61022RWUT	Texas Instruments	8-A Boost Converter with 0.5-V Ultra-Low Input Voltage, RWU0007A (VQFN-HR-7)	RWU0007A

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