Texas Instruments

PMP20850 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2	2	2.2uF	C1210C225K1RACTU	Kemet	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
2	C3	1	330uF	APXF6R3ARA331MF80G	Chemi-Con	CAP, Aluminum Polymer, 330 µF, 6.3 V, +/- 20%, 0.009 ohm, D6.3xL7.7mm SMD	D6.3xL7.7mm
3	C4, C6, C10, C15, C16	5	1uF	06033C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
4	C5	1	0.1uF	CC1206KKX7RYBB104	Yageo America	CAP, CERM, 0.1 µF, 250 V, +/- 10%, X7R, 1206	1206
5	C7	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0603	0603
6	C8	1	22uF	TMK325B7226MM-TR	Taiyo Yuden	CAP, CERM, 22 µF, 25 V, +/- 20%, X7R, 1210	1210
7	C9	1	1000pF	GR442QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1808	1808
8	C11	1	0.033uF	GRM155R71A333KA01D	MuRata	CAP, CERM, 0.033 µF, 10 V, +/- 10%, X7R, 0402	0402
9	C12	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	0402
10	C13	1	100pF	0402YC101KAT2A	AVX	CAP, CERM, 100 pF, 16 V, +/- 10%, X7R, 0402	0402
11	C14	1	0.047uF	C1005X7R1C473K050BC	TDK	CAP, CERM, 0.047 µF, 16 V, +/- 10%, X7R, 0402	0402
12	C17	1	22uF	C4532X7R1E226M250KC	TDK	CAP, CERM, 22 µF, 25 V, +/- 20%, X7R, 1812	1812
13	D1, D2, D4, D5	4	100V	MMDL914-TP	Micro Commercial Components	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
14	D3	1	12V	BZT52C12T-7	Diodes Inc.	Diode, Zener, 12 V, 300 mW, SOD-523	SOD-523
15	GND, PGND	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
16	J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
17	L1	1	2.8uH	PG0077.282NLT	Pulse Engineering	Inductor, Flat Wire, 2.8 µH, 19 A, 0.0042 ohm, SMD	14x13mm
18	Q1, Q6	2	25V	CSD16414Q5	Texas Instruments	MOSFET, N-CH, 25 V, 100 A, DQH0008A (VSON-CLIP-8)	DQH0008A
19	Q2, Q3	2	60 V	MMBT2907A	Fairchild Semiconductor	Transistor, PNP, 60 V, 0.8 A, SOT-23	SOT-23
20	Q4	1	-150V	IRF6216TRPBF	International Rectifier	MOSFET, P-CH, -150 V, -2.2 A, SOIC-8	SOIC-8
21	Q5	1	150V	Si4488DY-T1-GE3	Vishay-Siliconix	MOSFET, N-CH, 150 V, 3.5 A, SO-8	SO-8
22	Q7	1	50 V	PBSS4250X,115	Nexperia	Transistor, NPN, 50 V, 2 A, SOT-89	SOT-89
23	R1, R2	2	10	CRCW060310R0JNEAHP	Vishay-Dale	RES, 10, 5%, 0.25 W, 0603	0603
24	R3, R4, R13	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
25	R5	1	0.068	MCR50JZHFSR068	Rohm	RES, 0.068, 1%, 0.5 W, AEC-Q200 Grade 0, 2010	2010
26	R6	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
27	R7, R12	2	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402
28	R8, R9	2	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
29	R10	1	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
30	R11	1	1.00k	ERJ-2RKF1001X	Panasonic	RES, 1.00 k, 1%, 0.1 W, 0402	0402
31	R14, R16	2	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
32	R15	1	75.0k	CRCW040275K0FKED	Vishay-Dale	RES, 75.0 k, 1%, 0.063 W, 0402	0402
33	R17	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
34	R18	1	6.49k	CRCW04026K49FKED	Vishay-Dale	RES, 6.49 k, 1%, 0.063 W, 0402	0402
35	R19	1	6.04k	CRCW04026K04FKED	Vishay-Dale	RES, 6.04 k, 1%, 0.063 W, 0402	0402
36	R20	1	3.74k	CRCW04023K74FKED	Vishay-Dale	RES, 3.74 k, 1%, 0.063 W, 0402	0402
37	T1	1	100uH	PA3856.001NLT	Pulse Engineering	Transformer, 100 uH, SMT	SMD, 10-Leads, Body 14.5x14.5mm
38	TP1	1		5008	Keystone	Test Point, Compact, Orange, TH	Orange Compact Testpoint
39	U1	1		UCC2897ARGPT	Texas Instruments	Advanced Current-Mode Active Clamp PWM Controller with Current Control, -40 to +125 degC, 20-pin QFN (RGP), Green (RoHS & no Sb/Br)	RGP0020D
40	U2	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
41	U5	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
42	Vin, Vout	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint

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