

PMP21030 REV D Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBoard	1		PMP21030	Any	Printed Circuit Board	
C1, C2	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V,+/- 10%, X7R, 1812	1812
C3, C4, C10, C14	4	47uF	EEE-FK1J470P	Panasonic	CAP, AL, 47 µF, 63 V, +/- 20%, 0.65 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C5, C6, C7, C11, C12, C13, C15, C16	8	2.2uF	C3216X7S2A225K160AB	TDK	CAP, CERM, 2.2 µF, 100 V,+/- 10%, X7S, 1206	1206
C8	1	0.1uF	GCJ188R72A104KA01D	MuRata	CAP, CERM, 0.1 µF, 100 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C9	1	220pF	GRM31A7U2J221JW31D	MuRata	CAP, CERM, 220 pF, 630 V,+/- 5%, U2J, 1206	1206
C17	1	0.1uF	GRM31CR72D104KW03L	MuRata	CAP, CERM, 0.1 µF, 200 V,+/- 10%, X7R, 1206	1206
C18	1	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V,+/- 5%, C0G/NP0, 0603	0603
C19	1	1uF	EKMG101ELL1R0ME11D	Chemi-Con	CAP, AL, 1 µF, 100 V, +/- 20%, TH	D5xL11mm
C20	1	4700pF	GCM188R71H472KA37D	MuRata	CAP, CERM, 4700 pF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C21	1	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0603	0603
C22	1	4.7uF	GRM155R61E475ME15	MuRata	CAP, CERM, 4.7 µF, 25 V,+/- 20%, X5R, 0402	0402
C23	1	1uF	GRM219R71E105KA88D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0805	0805
C24	1	1uF	GCM188R71E105KA64D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1	1	200V	ES2D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 2 A, SMB	SMB
D2	1	200V	MURD320T4G	ON Semiconductor	Diode, Ultrafast, 200 V, 3 A, AEC-Q101, DPAK	DPAK
D3, D5, D6, D8	4	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
D4	1	24V	DFLZ24-7	Diodes Inc.	Diode, Zener, 24 V, 1 W, PowerDI123	PowerDI123
D7	1	43V	MMSZ4717T1G	ON Semiconductor	Diode, Zener, 43 V, 500 mW, SOD-123	SOD-123
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1	1	10uH	MSS1048-103MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 10 µH, 4.32 A, 0.03 ohm, SMD	MSS1048
L2	1	3.3uH	LPS4018-332MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 3.3 µH, 1.9 A, 0.08 ohm, SMD	LPS4018
Q1	1	150V	FDMS86200	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 35 A, PQFN08A	PQFN08A
Q2	1	40 V	MMBT3906TT1G	ON Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-416	SOT-416
R1	1	51k	CRCW201051K0JNEF	Vishay-Dale	RES, 51 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R2	1	51	CRCW251251R0JNEG	Vishay-Dale	RES, 51, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R3	1	1.0	CRCW12061R00JNEA	Vishay-Dale	RES, 1.0, 5%, 0.25 W, 1206	1206
R4	1	2.0k	CRCW08052K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.125 W, 0805	0805
R5	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R6	1	2.05k	CRCW06032K05FKEA	Vishay-Dale	RES, 2.05 k, 1%, 0.1 W, 0603	0603
R7	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R8	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R9	1	0.02	WSLP1206R0200FEA	Vishay-Dale	RES, 0.02, 1%, 1 W, 1206	1206
R10	1	4.7k	CRCW08054K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.125 W, 0805	0805
R11	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R12, R13	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R14, R15	2	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R16	1	140k	CRCW0603140KFKEA	Vishay-Dale	RES, 140 k, 1%, 0.1 W, 0603	0603
R17	1	9.31k	CRCW06039K31FKEA	Vishay-Dale	RES, 9.31 k, 1%, 0.1 W, 0603	0603
R18	1	2.74k	CRCW06032K74FKEA	Vishay-Dale	RES, 2.74 k, 1%, 0.1 W, 0603	0603
R19	1	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402
T1	1	35uH	GA3136-BL	Coilcraft	Transformer, Flyback, 35 uH, SMD	26x26.75mm
TP1, TP3	2		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
TP2, TP4	2		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		LM3481MM/NOPB	Texas Instruments	High Efficiency Low-Side N-Channel Controller for Switching Regulators, 10-pin MSOP, Pb-Free	MUB10A
U2	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
U3	1		TL431AIDBVRA	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 5-pin SOT-23 (DBV), Green (RoHS & no Sb/Br)	DBV0005A

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