

PMP21519 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	68uF	EEU-ED2C680	Panasonic	CAP, AL, 68 uF, 160 V, +/- 20%, TH	D12.5xL20mm
C2, C3, C4	3	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C5, C11	2				CAP, CERM, open, 1210	1210
C6, C7, C8	3	22uF	GRM32ER71C226ME18L	MuRata	CAP, CERM, 22 uF, 16 V, +/- 20%, X7R, 1210	1210
C9, C10	2				CAP, AL, open, TH	D12.5xL20mm
C12, C17	2	270pF	GRM1885C1H271JA01D	MuRata	CAP, CERM, 270 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C13	1	27pF	GRM1885C1H270JA01D	MuRata	CAP, CERM, 27 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C14	1	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C15, C16	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C18	1	0.22uF	GCM188R71E224KA55D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D2	1	10V	MMSZ4697T1G	ON Semiconductor	Diode, Zener, 10 V, 500 mW, SOD-123	SOD-123
D3	1	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
D4	1	200V	MBRS3201T3G	ON Semiconductor	Diode, Schottky, 200 V, 3 A, SMC	SMC
D5, D6	2	5.1V	MMSZ4689-E3-08	Vishay-Semiconductor	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
L1	1	47uH	DRQ127-470-R	Coiltronics	Coupled inductor, 47 uH, 5.28 A, 0.144 ohm, SMD	12.5x8.0x12.5mm
Q1	1	200V	ZVN3320FTA	Diodes Inc.	MOSFET, N-CH, 200 V, 0.06 A, SOT-23	SOT-23
Q2, Q3	2	40 V	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
Q4	1	150V	FDMS86250	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 30 A, PQFN08A	PQFN08A
Q5	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
Q6	1	DNP			MOSFET, open, DPAK	DPAK
R1	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R2, R5, R6	3				RES, open, 0603	0603
R3, R4	2	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7, R8	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9, R14	2	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R11	1	0.033	ERJ-L14KF33MU	Panasonic	RES, 0.033, 1%, 0.33 W, 1210	1210
R12	1				RES, open, 2512	2512
R13	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15	1	3.09k	CRCW06033K09FKEA	Vishay-Dale	RES, 3.09 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	23.7k	CRCW060323K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R17	1	309k	CRCW0603309KFKEA	Vishay-Dale	RES, 309 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
TP1, TP3, TP4, TP6, TP7	5		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP5, TP8	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		TPS40210DGQR	Texas Instruments	Wide Input Range Current Mode Boost Controller, DGQ0010D (VSSOP-10)	DGQ0010D

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