

PMP21727 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C4	2	4.7uF	CGA6M3X7S2A475K200AB	TDK	CAP, CERM, 4.7 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
C3	1	68uF	EEE-FK1J680UP	Panasonic	CAP, AL, 68 uF, 63 V, +/- 20%, 0.65 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C5, C100	2	10uF	12103C106KAT2A	AVX	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
C6	1	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
C8	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C9, C13	2	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C10	1	4700pF	GRM188R71H472KA01D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
C11	1	0.1uF	885012206071	Wurth Elektronik	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C12	1	470pF	885012206081	Wurth Elektronik	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
C14	1	330pF	GRM1885C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
D1, D3	2	100V	MBRS1100T3G	ON Semiconductor	Diode, Schottky, 100 V, 1 A, SMB	SMB
D2	1	9.1V	MMSZ4696T1G	ON Semiconductor	Diode, Zener, 9.1 V, 500 mW, SOD-123	SOD-123
D4	1	70V	BAV70-E3-08	Vishay-Semiconductor	Diode, Switching, 70 V, 0.25 A, AEC-Q101, SOT-23	SOT-23
J1, J2, J3	3		39357-0002	Molex	Terminal Block, 3.5 mm, 2x1, Tin, TH	Terminal Block, 3.5 mm, 2x1, TH
Q1	1	100 V	FMMT493TA	Diodes Inc.	Transistor, NPN, 100 V, 1 A, AEC-Q101, SOT-23	SOT-23
Q2	1	80V	IRL80HS120	Infinition	MOSFET, N-CH, 80 V, 6 A, SON, 8 Leads, Body 2x2mm, Pitch 0.65mm	SON, 8 Leads, Body 2x2mm, Pitch 0.65mm
R1	1	30.1k	CRCW080530K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R3	1	1.87k	CRCW12061K87FKEA	Vishay-Dale	RES, 1.87 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R5, R8	2	37.4k	CRCW060337K4FKEA	Vishay-Dale	RES, 37.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6	1	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	1	0.05	ERJ-8CWF050V	Panasonic	RES, 0.05, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
R11	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T1	1	50uH	750317976	Wurth Elektronik	Transformer, 50 uH, SMT	13.46x17.75mm
TP1, TP2, TP5, TP7, TP8, TP9	6		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP3, TP4, TP6, TP10	4		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		TPS40210QDGQRQ1	Texas Instruments	Automotive Catalog Wide Input Range Current Mode Boost Controller, 4.5 to 52 V, -40 to 125 degC, 10-pin MSOP-PowerPAD (DGQ), Green (RoHS & no Sb/Br)	DGQ0010D
C2	0	4.7uF	CGA6M3X7S2A475K200AB	TDK	CAP, CERM, 4.7 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
C7	0	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
R2	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4	0	255k	CRCW0603255KfKEA	Vishay-Dale	RES, 255 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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