

PMP20904 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B1	1		PMP20904	Any	Printed Circuit Board	
C1	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 μF, 25 V, +/- 10%, X7R, 0603	0603
C2, C3, C7, C8, C9, C10	6	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 μF, 50 V, +/- 10%, X7R, 1210	1210
C4, C5	2	4.7uF	GRM32ER71K475KE14L	MuRata	CAP, CERM, 4.7 μF, 80 V, +/- 10%, X7R, 1210	1210
C11, C20	2	68uF	UUD1V680MCL1GS	Nichicon	CAP, AL, 68 μF, 35 V, +/- 20%, 0.34 ohm, SMD	6.3x7.7
C12, C17, C19	3	0.47uF	CGA3E3X7R1H474M080AE	TDK	CAP, CERM, 0.47 μF, 50 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	0603
C13	1	1uF	GRM188R71C105KE15D	MuRata	CAP, CERM, 1 μF, 16 V, +/- 10%, X7R, 0603	0603
C15	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C16	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C18	1	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
C21	1	820pF	GRM1885C1H821JA01D	MuRata	CAP, CERM, 820 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
D1	1	60V	PMEG6010CEH,115	Nexperia	Diode, Schottky, 60 V, 1 A, SOD-123F	SOD-123F
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
L1	1	20uH	B82559A203A20	TDK	Inductor, Wirewound, Ferrite, 20 uH, 14.3 A, 0.0064 ohm, AEC-Q200 Grade 0, SMD	21.5x21mm
Q1, Q2	2	80V	BSC123N08NS3 G	Infineon Technologies	MOSFET, N-CH, 80 V, 55 A, PG-TDSON-8	PG-TDSON-8
R1	1	3.0	CRCW06033R00JNEA	Vishay-Dale	RES, 3.0, 5%, 0.1 W, 0603	0603
R2	1	3.9	CRCW06033R90JNEA	Vishay-Dale	RES, 3.9, 5%, 0.1 W, 0603	0603
R3	1	8.06	CRCW06038R06FKEA	Vishay-Dale	RES, 8.06, 1%, 0.1 W, 0603	0603
R4	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R6	1	51.1k	CRCW060351K1FKEA	Vishay-Dale	RES, 51.1 k, 1%, 0.1 W, 0603	0603
R7	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R8	1	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
R9	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R10	1	1.74k	CRCW06031K74FKEA	Vishay-Dale	RES, 1.74 k, 1%, 0.1 W, 0603	0603
R11	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R13	1	0.007	PE1206FRF470R007L	Yageo America	RES, 0.007, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
R14	1	348k	CRCW0603348KFKEA	Vishay-Dale	RES, 348 k, 1%, 0.1 W, 0603	0603
TP1, TP8	2	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
TP2, TP5, TP6, TP10	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
TP3, TP9	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP4, TP7	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
U1	1		LM5117PMHX/NOPB	Texas Instruments	5.5-65V Wide Vin, Current Mode Synchronous Buck Controller with Analog Current Monitor, PWP0020A (TSSOP-20)	PWP0020A
C14	0	100pF	GRM2165C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
R5	0	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R12	0	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, 1206	1206

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