

PMP20410 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCBoard	1		PMP20410	Any	Printed Circuit Board	
C1, C11	2	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
C2, C5, C9	3	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C3, C6	2	0.22uF	C1005X5R1E224M050BC	TDK	CAP, CERM, 0.22 µF, 25 V, +/- 20%, X5R, 0402	0402
C4	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
C7	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 µF, 25 V, +/- 10%, X7R, 0402	0402
C8	1	0.022uF	GRM155R71E223KA61D	MuRata	CAP, CERM, 0.022 µF, 25 V, +/- 10%, X7R, 0402	0402
C10	1	220pF	C1005X7R1H221K	TDK	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	0402
C13	1	68pF	GRM1555C1H680JA01D	MuRata	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C14	1	560pF	GRM155R71H561KA01D	MuRata	CAP, CERM, 560 pF, 50 V, +/- 10%, X7R, 0402	0402
Cin1, Cin2, Cin3	3	22uF	GRM31CR71A226ME15L	MuRata	CAP, CERM, 22 µF, 10 V, +/- 20%, X7R, 1206	1206
Cin4, Co6	2	4.7uF	GRM21BR71C475KA73L	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	0805
Co1, Co2, Co3	3	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 10%, X7R, 1210	1210
D2, D3	2	100V	BAS516,115	NXP Semiconductor	Diode, Switching, 100V, 0.25A, SOD-523	SOD-523
D4	1	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
J1, J2, J3, J4	4		1598-2	Keystone	Terminal, Turret, TH, Triple	Keystone1598-2
L1	1	680nH	IHLP5050FDERR68M01	Vishay-Dale	Inductor, Shielded, Powdered Iron, 680 nH, 35 A, 0.0016 ohm, SMD	IHLP-5050FD
L3	1	10uH	LQH3NPN100NG0	MuRata	Inductor, Wirewound, Ferrite, 10 µH, 0.5 A, 0.57 ohm, SMD	3.0x0.9x3.0mm
Q1, Q2, Q3, Q4	4	25V	BSC014NE2LSI	Infineon Technologies	MOSFET, N-CH, 25 V, 33 A, PG-TDSON-8	PG-TDSON-8
R1, R2, R3	3	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R4	1	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, 0402	0402
R5	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50 k, 1%, 0.063 W, 0402	0402
R6	1	61.9k	CRCW040261K9FKED	Vishay-Dale	RES, 61.9 k, 1%, 0.063 W, 0402	0402
R7	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R8	1	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
R9, R11	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R10, R18	2	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
R13	1	130k	CRCW0402130FKED	Vishay-Dale	RES, 130 k, 1%, 0.063 W, 0402	0402
R14	1	20k	CRCW040220K0JNED	Vishay-Dale	RES, 20 k, 5%, 0.063 W, 0402	0402
R15	1	5.49k	CRCW04025K49FKED	Vishay-Dale	RES, 5.49 k, 1%, 0.063 W, 0402	0402
R16	1	16.2k	CRCW040216K2FKED	Vishay-Dale	RES, 16.2 k, 1%, 0.063 W, 0402	0402
R19	1	6.98k	CRCW04026K98FKED	Vishay-Dale	RES, 6.98 k, 1%, 0.063 W, 0402	0402
RS1	1	0.002	FCSL76R002GER	Ohmite	RES, 0.002, 2%, 3 W, 2.8x7.6x.7mm	2.8x7.6x.7mm
TP3, TP4	2		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U1	1		LM5175RHFR	Texas Instruments	42-V Wide VIN Synchronous 4-Switch Buck-Boost Controller, RHF0028A	RHF0028A
U2	1		LMR62014XMF/NOPB	Texas Instruments	LMR62014 SIMPLE SWITCHER® 20Vout, 1.4 A Step-Up Voltage Regulator, DBV0005A	DBV0005A

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