

**PMP23546 REV B Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP23546	Any	Printed Circuit Board	
C2, C5, C17, C20	4	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C3, C10	2	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
C6	1	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C7	1	0.15uF	GRM188R71E154KA01D	MuRata	CAP, CERM, 0.15 uF, 25 V, +/- 10%, X7R, 0603	0603
C8	1	820pF	GRM188R71H821KA01D	MuRata	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0603	0603
C9	1	22pF	GRM1885C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C11, C12, C14, C15	4	4.7uF	GRM21BR61H475KE51L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 0805	0805
C13	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
C16	1	470pF	GRM1885C2A471JA01D	MuRata	CAP, CERM, 470 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C18, C19, C21, C22	4	10uF	GRM21BZ71E106KE15L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
D1, D2	2	60V	1N6263W-7-F	Diodes Inc.	Diode, Schottky, 60 V, 0.015 A, SOD-123	SOD-123
D3, D4	2	60V	SS16T3G	ON Semiconductor	Diode, Schottky, 60 V, 1 A, SMA	SMA
J1	1		PPPC061LFBN-RC	Sullins Connector Solutions	Receptacle, 2.54mm, 6x1, Gold, TH	Receptacle, 2.54mm, 6x1, Gold, TH
J2	1		PPPC021LFBN-RC	Sullins Connector Solutions	Receptacle, 2.54mm, 2x1, Gold, TH	Receptacle, 2.54mm, 2x1, TH
Q1	1	50 V	MMUN2214LT1G	ON Semiconductor	Transistor, NPN, 50 V, 0.1 A, AEC-Q101, SOT-23	SOT-23
Q2	1		EPC7003AC	EPC Space	N-Channel 100 V 10A (Tc) Surface Mount 4-SMD	FSMD-A
R1	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	2.87k	CRCW06032K87FKEA	Vishay-Dale	RES, 2.87 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	499k	CRCW0603499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4	1	205k	CRCW0603205KFKEA	Vishay-Dale	RES, 205 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5, R8	2	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6, R15	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7	1	3.24k	CRCW06033K24FKEA	Vishay-Dale	RES, 3.24 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R11	1	7.87k	CRCW06037K87FKEA	Vishay-Dale	RES, 7.87 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12, R13	2	3.01	CRCW06033R01FKEA	Vishay-Dale	RES, 3.01, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	118k	CRCW0603118KFKEA	Vishay-Dale	RES, 118 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R17	1	6.19k	CRCW06036K19FKEA	Vishay-Dale	RES, 6.19 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18	1		CSR0805FKR250	Stackpole Electronics Inc	250 mOhms ±1% 0.25W, 1/4W Chip Resistor 0805 (2012 Metric) Current Sense Thick Film	0805
R19	1	1.0k	RC1210JR-071KL	Yageo	RES, 1.0 k, 5%, 0.5 W, 1210	1210
R20	1	2.2k	CRCW12062K20JNEA	Vishay-Dale	RES, 2.2 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R21	1	1.0k	CRCW12061K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
T1	1		CP-D1551-BZ	Coilcraft	Transformer	SMT_XFRMR_17MM 75 14MM0
U1	1		TL1431U/EM	Texas Instruments	Radiation-hardness-assured (RHA) 0.4% accuracy, 2.4-V to 36-V adjustable shunt reference 10-CFP 25 to 25	CFP10
U2	1		TPS7H5020MPWPTSEP	Texas Instruments	Radiation-Hardness-Assured 1-MHz Current Mode PWM Controller with Integrated Gate Driver	HTSSOP24

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C4	0	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603

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