

PMP22021 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP22021	Any	Printed Circuit Board	
C1	1	10uF	860020472003	Würth Elektronik	CAP, AL, 10 µF, 25 V, +/- 20%, TH	TH, 2-Leads, Dia 5mm, Pin Spacing 2mm
C2	1	1uF	GRM219R71E105KA88D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
C3	1	0.027uF	GRM188R71H273KA61D	MuRata	CAP, CERM, 0.027 uF, 50 V, +/- 10%, X7R, 0603	0603
C4	1	0.01uF	GCM188R71H103KA37D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C5	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C6	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206	1206
C7, C11	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C8	1	1000pF	GR442QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1808	1808
C9	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100 pF, 25 V, +/- 10%, X7R, 0603	0603
C10	1	0.033uF	GRM188R71C333KA01D	MuRata	CAP, CERM, 0.033 uF, 16 V, +/- 10%, X7R, 0603	0603
C12	1	10uF	C3216X7R1A106K085AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 1206	1206
C13	1	330uF	860010273010	Würth Elektronik	CAP, AL, 330 µF, 10 V, +/- 20%, TH	TH, 2-Leads, Dia 6.3mm, Pin Spacing 2.5mm
D1	1	100V	MURA110T3G	ON Semiconductor	Diode, Ultrafast, 100 V, 2 A, SMA	SMA
D2	1	35V	MBRD1035CTLT4G	ON Semiconductor	Diode, Schottky, 35 V, 10 A, DPAK	DPAK
J1, J2	2		691214310002	Würth Elektronik	Terminal Block, 2x1, 3.81mm, 24-16 AWG, 10A, 300VAC, TH	2x1 Terminal Block
L1	1	2.2uH	74437349022	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 2.2 uH, 7.5 A, 0.0112 ohm, SMD	7.30x4.80x6.60mm
Q1	1	60V	CSD18543Q3A	Texas Instruments	MOSFET, N-CH, 60 V, 35 A, DNH0008A (VSONP-8)	DNH0008A
R1	1	21.0k	CRCW060321K0FKEA	Vishay-Dale	RES, 21.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	4.87k	CRCW06034K87FKEA	Vishay-Dale	RES, 4.87 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	84.5k	CRCW060384K5FKEA	Vishay-Dale	RES, 84.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4	1	2.0k	CRCW12062K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R5	1	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7	1	0.3	CSR1206FKR300	Stackpole Electronics Inc	RES, 0.3, 1%, 0.5 W, 1206	1206
R8	1	200	CRCW0603200RJNEA	Vishay-Dale	RES, 200, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	511	CRCW0603511RFKEA	Vishay-Dale	RES, 511, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	1	4.42k	CRCW06034K42FKEA	Vishay-Dale	RES, 4.42 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R11	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12	1	14.3k	CRCW060314K3FKEA	Vishay-Dale	RES, 14.3 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	42.2k	CRCW060342K2FKEA	Vishay-Dale	RES, 42.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
T1	1		750310035	Würth Elektronik	MID-POE Power Over Ethernet Transformer	SMT_17MM75_13MM46
U1	1		LM5022QDGSRQ1	Texas Instruments	2.2MHz 60-V Low Side Controller for Boost, SEPIC and Flyback, DGS0010A (VSSOP-10)	DGS0010A
U2	1		VO618A-3	Vishay-Semiconductor	Optocoupler, 5.3 kV, 100-200% CTR, SMT	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		ATL431LIAIDBZR	Texas Instruments	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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