PMP15032 REV A Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP15032	Any	Printed Circuit Board	
C1, C7, C35, C49	4	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C2, C3, C4, C5, C45, C46, C47,	8	100µF	T598D107M010ATE025	Kemet	CAP TANT POLY 100UF 10V 2917	2917 (7343 Metric)
C48						
C6, C36, C50, C51	4	47uF	C3216X5R1C476M160AB	TDK	CAP, CERM, 47uF, 16V, +/-15%, X5R, 1206	1206
C8	1	0.1uF	C0603C104K4RACTU	Kemet	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	0603
C9, C34	2	33pF	06031A330JAT2A	AVX	CAP, CERM, 33 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C10, C11, C12, C13, C14, C15, C16, C17, C37, C38, C39, C40, C41, C42, C43,	16	2.2uF	CGA5L3X7S2A225M160AB	TDK	CAP, CERM, 2.2 μF, 100 V, +/- 20%, X7S, AEC-Q200 Grade 1, 1206_190	1206_190
C44		470 5	1000544454454	14104	LOAD OFFILE 470 F 400 V 4 704 COO NIDO COOF	2005
C18, C33		470pF	08051A471JAT2A	AVX	CAP, CERM, 470 pF, 100 V, +/- 5%, COG/NP0, 0805	0805
C19		0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0603	0603
C20, C32		47pF	C0603C470J5GACTU	Kemet	CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NPO, 0603	0603
C21, C28	2	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 μF, 25 V, +/- 10%, X7R, 0603	0603
C22, C30		0.33uF	CGA3E3X7R1H334K080AB	TDK	CAP, CERM, 0.33 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C23, C25	2	2.2uF	C0603C225M8PACTU	Kemet	CAP, CERM, 2.2 μF, 10 V, +/- 20%, X5R, 0603	0603
C24, C26		0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	0603
C27		0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47uF, 100V, +/-10%, X7R, 0805	0805
C29		0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 μF, 100 V, +/- 10%, X7R, 0603	0603
C31		4.7uF	CGA6M3X7S2A475K200AB	TDK	CAP, CERM, 4.7 μF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
D1, D4	2	70V	B170-13-F	Diodes Inc.	Diode, Schottky, 70V, 1A, SMA	SMA
D2, D3		60V	PMEG6010CEJ,115	NXP Semiconductor	Diode, Schottky, 60 V, 1 A, SOD-323F	SOD-323F
H1, H2, H3, H4	4		SJ61A2	3M	Bumpon, Hemisphere, 0.375 X 0.235, Black	Black Bumpon
J1, J2	2		1714971	Phoenix Contact	Receptacle, 9.52mm, 2x1, TH	Receptacle, 9.52mm, 2x1, TH
J4	1		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
L1, L2	2	1.9uH	7443556190	Wurth Elektronik	Inductor, Shielded Drum Core, WE-Superflux200, 1.9 μH, 32.5 A, 0.0012 ohm, SMD	18.3x8.9x18.2mm
PG1, PG2	2		PEC01DAAN	Sullins Connector Solutions	Header, 2.54mm, 1x2, Tin, Black, TH	Header, 2.54mm, 2x1, TH
Q1, Q2, Q3, Q4	4		FDD9407L_F085	ON Semiconductor/Fairchild	MOSFET N-CH 40V 100A	TO-252-3, DPak (2 Leads + Tab), SC-63
R1	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R2	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R3	1	63.4k	CRCW060363K4FKEA	Vishay-Dale	RES, 63.4 k, 1%, 0.1 W, 0603	0603
R4		20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R6, R11, R19, R20, R22, R26, R31, R36		0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R7, R7A, R30, R30A	4	0.005	KRL2012M-R005-F-T1	Susumu Co Ltd	RES, 0.005, 1%, 1 W, AEC-Q200 Grade 0, 0508	0508
R8, R29	2	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R9, R28		8.2	CRCW20108R20JNEF	Vishay-Dale	RES, 8.2, 5%, 0.75 W, 2010	2010

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R10, R12, R13,	6	4.99	CRCW06034R99FKEA	Vishay-Dale	RES, 4.99, 1%, 0.1 W, 0603	0603
R33, R34, R35						
R14, R25	2	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R15, R24	2	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
R16	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R17	1	0	RC0603JR-070RL	Yageo America	RES, 0 ohm, 5%, 0.1W, 0603	0603
TP1, TP3	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose
				Ť		Testpoint
TP2, TP4	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose
				j		Testpoint
TP5	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature
				Ť		Testpoint
TP6, TP8	2		5002	Keystone	Test Point, Miniature, White, TH	White Miniature
				j		Testpoint
U1	1		LMP7701MF	Texas Instruments	Precision, Single CMOS Input R-R I/O, 12V Op Amp, DBV0005A	DBV0005A
U2	1		LM5140QRWGRQ1	Texas Instruments	Wide Input Range Dual Synchronous Buck Controller, RHA0040C	RHA0040C
FID1, FID2, FID3,	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
FID4, FID5, FID6					, ,	
R5, R18, R21,	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R27				ĺ		
R32	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603

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