

PMP7282

Designator	Description	Manufacturer	Part Number	Qty
AA1	Printed Circuit Board	TBD	Used in BOM Report	1
C1, C2, C3, C4, C5, C25, C26, C27, C28, C29	CAP, CERM, 4.7uF, 100V, +/-20%, X7S, 1210	TDK	C3225X7S2A475M	10
C6, C30	CAP, CERM, 0.47uF, 100V, +/-10%, X7R, 0805	MuRata	GRM21BR72A474KA73L	2
C7, C19, C20, C31, C42, C43	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E105KA12D	6
C8, C32, C44	CAP, CERM, 27pF, 50V, +/-5%, C0G/NP0, 0603	TDK	C1608C0G1H270J	3
C9, C24, C33	CAP, CERM, 1000pF, 50V, +/-5%, C0G/NP0, 0603	TDK	C1608C0G1H102J	3
C10, C34	CAP, CERM, 0.033uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E333KA01D	2
C11, C35	CAP, CERM, 2200pF, 100V, +/-5%, C0G/NP0, 0805	MuRata	GRM2165C2A222JA01D	2
C12, C13, C14, C15, C16, C17, C36, C37, C38, C39, C40, C41	CAP, CERM, 22uF, 25V, +/-10%, X5R, 1206	MuRata	GRM31CR61E226KE15L	12
C18	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	TDK	C1608C0G1H101J	1
C21, C22, C23	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C104K4RACTU	3
D1, D2, D3, D4, D5, D6	Diode, Ultrafast, 100V, 0.25A, SOD-323	NXP Semiconductor	BAS316,115	6
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
L1, L2	Inductor, Shielded E Core, Ferrite, 6.8uH, 28A, 0.0026 ohm, SMD	Coilcraft	SER2918H-682KL	2
P1, P2, P5, P6	PC PIN .040 DIA 3102-2 SERIES	Mill -Max	3102-2-00-21-00-00-08-0	4
P3, P4, P7, P8	CIRCUIT PIN PRNTD .188" .084"	Mill -Max	3144-2-00-21-00-00-08-0	4
Q1, Q2, Q3, Q9, Q10, Q11	MOSFET, N-CH, 80V, 55A, PG-TDSON-8	Infineon Technologies	BSC123N08NS3 G	6
Q4, Q5, Q6, Q12, Q13, Q14	MOSFET, N-CH, 80V, 100A, PG-TDSON-8	Infineon Technologies	BSC047N08NS3 G	6
Q7	Transistor, NPN, 40V, 0.2A, SOT-23	Fairchild Semiconductor	MMBT3904	1
Q8	MOSFET, N-CH, 60V, 0.26A, SOT-23	ON Semiconductor	2N7002ET1G	1
R1, R22	RES, 1.0Meg ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031M00JNEA	2
R2, R23	RES, 237k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603237KFKEA	2
R3, R24	RES, 9.31k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06039K31FKEA	2
R4, R25	RES, 38.3k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060338K3FKEA	2
R5, R6, R26, R27	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603000Z0EA	4
R7, R28	RES, 1.0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08051R00JNEA	2
R8, R31	RES, 10k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310K0JNEA	2
R9	RES, 3.6k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06033K60JNEA	1
R10, R32	RES, 750k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603750KJNEA	2
R11, R33	RES, 1.0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031R00JNEA	2
R12	RES, 1.21k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031K21FKEA	1
R13	RES, 10.7k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K7FKEA	1
R14	RES, 4.7k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06034K70JNEA	1

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R15	RES, 1.0k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031K00JNEA	1
R16, R30	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	2
R17, R29	RES, 4.99k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K99FKEA	2
R18	RES, 37.4k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060337K4FKEA	1
R19	RES, 6.49k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06036K49FKEA	1
R20	RES, 294 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603294RFKEA	1
R21	RES, 12.1k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060312K1FKEA	1
U1, U5	Wide Range Synchronous Buck Controller	National Semiconductor	LM5116MH	2
U2	CMOS Timer, 8-pin Mini SOIC	National Semiconductor	LMC555CMM	1
U3	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 3-pin SOT-23	National Semiconductor	LMV431AIMF	1
U4	CMOS Low Power with Rail-to-Rail Input and Output	National Semiconductor	LMC7101AIM5	1

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