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PMP9491

Designator	Description	Manufacturer	PartNumber	Quantity
IPC B1	Printed Circuit Board	Any	PMP9491	1
C1	CAP, AL, 470uF, 10V, +/-20%, 0.012 ohm, SMD	Nippon Chemi-Con	APXA100ARA471MJC0G	1
C2, C3	CAP, CERM, 1uF, 6.3V, +10%, X5R, 0603	MuRata	GRM188R60J105KA01D	2
C4	CAP, CERM, 0.18 uF, 50 V, +/- 10%, X7R, 0805	Kemet	C0805C184K5RACTU	1
C5, C6, C7	CAP, AL, 56 uF, 20 V, +/- 20%, 0.03 ohm, SMD	Sanyo	20SVPF56MX	3
C8, C9, C23, C50, C60, C66, C68	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	AVX	08055C105KAT2A	7
C10	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	AVX	06031C103KAT2A	1
C11	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0805	AVX	0805YC474KAT2A	1
C12	CAP, CERM, 2200pF, 16V, +10%, X7R, 0603	MuRata	GRM188R71C222KA01D	1
C13, C14, C33, C34	CAP, AL, 47 uF, 35 V, +/- 20%, 0.36 ohm, SMD	Panasonic	EEE-FK1V470P	4
C15, C37	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0805	AVX	08055C104KAT2A	2
C16, C36	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0805	AVX	08055C102KAT2A	2
C17, C21, C25, C29	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0603	TDK	C1608X7R1H224K080AB	4
C18, C22, C26, C31	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H331JA01D	4
C19, C27, C38, C39	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0805	MuRata	GRM21BR72A103KA01L	4
C20, C24, C30, C32	CAP, CERM, 0.68 uF, 50 V, +/- 10%, X7R, 1206	MuRata	GRM31MR71H684KA88L	4
C28, C41, C43, C45, C46, C48	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7R, 0805	Taiyo Yuden	LMK212B7475KG-T	6
C35	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	AVX	06035A470JAT2A	1
C40, C44	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	AVX	0603YC104JAT2A	2
C42	CAP, AL, 10 uF, 35 V, +/- 20%, 1.8 ohm, SMD	Panasonic	EEE-FC1V100R	1
C47	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7R, 0805	MuRata	GRM21BR71A475KA73L	1
C49, C58	CAP, CERM, 0.047 uF, 100 V, +/- 10%, X7R, 0805	AVX	08051C473KAT2A	2
C51, C54, C59, C62	CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, 1210	TDK	C3225X7R1E106M	4
C52	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0603	AVX	06031C472KAT2A	1
C53, C55, C56, C61, C64, C65, C67	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	AVX	06033C104JAT2A	7
C57	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X7R, 0805	TDK	C2012X7R1V225K085AC	1
C63	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	TDK	C2012X7R1E105K	1
D1	Diode, Schottky, 35V, 8A, DPAK	ON Semiconductor	MBRD835LT4G	1
D2	Diode, Zener, 6.2V, 550 mW, SMB	ON Semiconductor	1SMB5920BT3G	1
D3	LED, Green, SMD	Lite-On	LTST-C190GKT	1
D4	Diode, Schottky, 30V, 0.2A, SOT-23	Diodes Inc.	BAT54C-7-F	1
FID1, FID2, FID3, FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	6
H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
H5, H6, H7, H8	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
J1, J3, J5	Binding Post, RED, TH	Keystone	7006	3
J2	Binding Post, BLACK, TH	Keystone	7007	1

Designator	Description	Manufacturer	PartNumber	Quantity
J4, J10, J11	Header, 100mil, 3x1, Gold, TH	Sullins Connector Solutions	PBC03SAAN	3
J6, J8	Header, 100mil, 2x1, Gold, TH	Sullins Connector Solutions	PBC02SAAN	2
J7	RCA Jack, R/A, Black, TH	Switchcraft	PJLAN1X1U01X	1
J9	RCA Jack, R/A, Red, TH	Switchcraft	PJLAN1X1U03X	1
J12	Connector, DC Jack 2.1X5.5 mm, TH	CUI Inc.	PJ-202AH	1
J13	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	1
J14	Header, 100mil, 3x1, Tin, TH	Sullins Connector Solutions	PEC03SAAN	1
J15, J16	Header, 100mil, 2x1, Tin, TH	Sullins Connector Solutions	PEC02SAAN	2
L1	Inductor, Shielded, Composite, 3.3uH, 25A, 0.0037 ohm, SMD	Coilcraft	XAL1010-332MEB	1
L2, L3, L4, L5	Inductor, Shielded, Ferrite, 10uH, 7.8A, 0.011 ohm, SMD	Toko	931BS-100M	4
L6	Inductor, Shielded Drum Core, Powdered Iron, 3.3uH, 5.5A, 0.0404 ohm, SMD	Vishay-Dale	IHLP2020CZER3R3M11	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	1
Q1	MOSFET, N-CH, 25V, 100A, SON 5x6mm	Texas Instruments	CSD16321Q5	1
Q2, Q3	MOSFET, N-CH, 30V, 5A, SON 2x2mm	Texas Instruments	CSD17313Q2	2
Q4	MOSFET, P-CH, -20 V, -20 A, SON 2x2mm	Texas Instruments	CSD25310Q2	1
Q5	MOSFET, N-CH, 60V, 0.17A, SOT-23	Diodes Inc.	2N7002-7-F	1
R1	RES, 45.3 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060345K3FKEA	1
R2	RES, 41.2 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060341K2FKEA	1
R3	RES, 0 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04020000Z0ED	1
R4	RES, 100 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100RJNEA	1
R5	RES, 64.9 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060364K9FKEA	1
R6	RES, 1.30 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K30FKEA	1
R7, R8, R10, R11, R37, R40, R43, R44	RES, 0 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW08050000Z0EA	8
R9	RES, 0.004 ohm, 1%, 1W, 2512	Panasonic	ERJ-M1WSF4M0U	1
R12	RES, 1.00 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K00FKEA	1
R13	RES, 8.45 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06038K45FKEA	1
R14, R22, R39, R54, R56	RES, 100 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603100KFKEA	5
R15, R19, R24, R26	RES, 3.32, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06033R32FKEA	4
R16, R18, R20, R23	RES, 10.0 ohm, 1%, 0.25W, 0805	Stackpole Electronics Inc	RNCP0805FTD10R0	4
R17	RES, 75.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060375K0FKEA	1
R21	RES, 47.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0747KL	1
R25	RES, 4.70 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-074K7L	1
R27	RES, 13 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060313K0JNEA	1
R28, R33	RES, 22 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060322K0JNEA	2
R29, R30	RES, 15 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060315K0JNEA	2
R31	RES, 1.00 k, 1%, 0.25 W, 1206	Vishay-Dale	CRCW12061K00FKEA	1
R32, R34	RES, 10 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060310K0JNEA	2
R35	RES, 5.6 k, 5%, 0.25 W, 1206	Vishay-Dale	CRCW12065K60JNEA	1
R36	RES, 0.02, 1%, 0.5 W, 1206	Stackpole Electronics Inc	CSR1206FK20L0	1
R38	RES, 499 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603499KFKEA	1
R41, R42	RES, 3.9, 5%, 0.25 W, 1206	Vishay-Dale	CRCW12063R90JNEA	2
R45, R46, R52	RES, 4.02 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06034K02FKEA	3

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