

PMP5922REVC BOM

COUNT	RefDes	Value	DESCRIPTION	SIZE	PART NUMBER	MFR
4	C101, C102, C201, C202	100pF	Capacitor, Ceramic, 50V, NPO, 10%	0402	std	std
20	C103, C108, C110, C203, C208, C210, C306, C361, C363, C364, C365, C366, C367, C374, C375, C376, C410, C411, C608, C613	1uF	Capacitor, Ceramic, 16V, X5R, 20%	0402	std	std
2	C104, C204	68pF	Capacitor, Ceramic, 50V, NPO, 10%	0402	Std	Std
8	C106, C314, C315, C401, C408, C603, C610, C611	22 uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0805	std	std
2	C109, C209	1000pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	std	std
4	C111, C211, C313, C407	220uF	Capacitor, Aluminum, 2V, 9mohm, 20% (SX Series)	7343	EEFSX0D221R	Panasonic
17	C112, C113, C114, C115, C116, C120, C206, C212, C213, C214, C215, C216, C220, C301, C302, C309, C311	10uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0805	C2012X5R0J106M	TDK
4	C121, C221, C308, C418	2200pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	std	std
2	C122, C222	22pF	Capacitor, Ceramic, 50V, NPO, 10%	0402	std	std
5	C191, C291, C305, C691, C701	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	0402	std	std
1	C303	0.22uF	Capacitor, Ceramic, 16V, X5R, 15%	0402	{Part Number}	{MFR}
10	C304, C307, C362, C368, C403, C406, C601, C605, C612, C703	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	std	std
1	C606	330pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	Std
1	C607	47pF	Capacitor, Ceramic, 50V, NPO, 10%	0402	std	std
1	C609	1500pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	Std
1	C618	1000pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	std	std
3	C702, C704, C705	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	GRM39yyyxxxKvvv	muRata
2	C706, C707	Not used	Capacitor, Ceramic, 6.3V, X7R, 20%	0805	Std	Std
3	C791, C792, C793	330uF	Capacitor, Aluminum, 6.3V, 105 deg C, 20%	0.315 inch	6.3ZL1000M10x12	Rubycon
2	D101, D201	MBR0530TxG	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530TxG	On Semi
1	D701	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54-V-GS08	Vishay-Liteon
2	D702, D703	GREEN	Diode, LED, Red Clear, 20mcd	0.079 X 0.049	LTST-C170GKT	Lite On
12	J1, J3, J102, J202, J301, J331, J362, J364, J374, J376, J401, J602	ED120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED120/2DS	OST
12	J101, J108, J201, J208, J303, J305, J361, J363, J373, J375, J402, J601	PEC02SAAN	Header, Male 2-pin, 100mil spacing	0.100 inch x 2	PEC02SAAN	Sullins
6	J103, J104, J105, J203, J204, J205	PEC04DAAN	Header, 2x4-pin, 100mil spacing	0.20 x 0.40 inch	PEC04DAAN	Sullins
2	J106, J206	PEC02DAAN	Header, 2x2-pin, 100mil spacing	0.20 x 0.20 inch	PEC02DAAN	Sullins

1	J107	PEC07DAAN	Header, Male 2x7 pin, 100mil spacing	0.100 inch x 2	PEC07DAAN	Sullins
1	J2	ED120/3DS	Terminal Block, 3-pin, 15-A, 5.1mm	0.60 x 0.35 inch	ED120/3DS	OST
1	J207	PEC05DAAN	Header, Male 2x5-pin, 100mil spacing	0.100 inch x 5	PEC05DAAN	Sullins
1	J4	ED555/3DS	Terminal Block, 3-pin, 6-A, 3.5mm	0.41 x 0.25 inch	ED555/3DS	OST
4	L101, L201, L401, L601	1.0uHy	Inductor, SMT, 4.5A, 27milliohms	0.160 X 0.175	MPT420-1R0H1	Delta
2	L301, L302	0.47uHy	Inductor, SMT, 7A, 14milliohms	0.160 X 0.175	MPT420-R47H1	Delta
4	Q101, Q201, Q301, Q401	CSD86330Q3D	MOSFET, Synchronous Buck NexFET Power Block	QFN-8 POWER	CSD86330Q3D	TI
2	Q701, Q702	CSD16407Q5	MOSFET, NChan, 25V, 31A, 2.5 milliOhm	QFN5X6mm	CSD16407Q5	TI(Ciclon)
4	R101, R103, R201, R203	475	Resistor, Chip, 1/16W, 1%	0402	Std	Std
20	R102, R181, R197, R198, R199, R202, R281, R297, R298, R299, R392, R393, R394, R395, R396, R397, R408, R492, R608, R692	10k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R104, R204	46.4k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R106, R206	6.19k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
4	R111, R211, R306, R309	0	Resistor, Chip, 1/16W, 5%	0402	Std	Std
3	R112, R212, R308	2k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R113, R213	5.6	Resistor, Chip, 1/16W, 5%	0402	Std	Std
2	R114, R214	0.003	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay
3	R115, R215, R307	0.47	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay
4	R182, R183, R282, R283	1k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
4	R191, R192, R291, R292	10	Resistor, Chip, 1/16W, 5%	0402	Std	Std
2	R193, R293	84.5k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
3	R194, R195, R294	100k	Resistor, Chip Array, 62.5 mW ± 5%	612	TC164-JR-07100K	Yageo
2	R196, R296	1	Resistor, Chip, 1/16W, 5%	0402	Std	Std
5	R295, R303, R404, R405, R601	100k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R304	12.1k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R305	16.2k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R402	866k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R403	16.2k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R407	7.5k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R417	1	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
2	R491, R693	51.1	Resistor, Chip, 1/16W, 1%	0402	Std	Std
0	R602	OMIT	Resistor, Chip, 1/16W, 1%	0402	Std	Std
2	R603, R606	20k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R609	301	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R617	2.7	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay
1	R691	174k	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R701	8.06k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R702	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R703, R704, R705	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R706, R707	330	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R708, R709	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R710, R711	0.15	Resistor, Chip, 150mohm, 2W, 1%	2512	Std	Std
1	R712	0.5	Resistor, Chip, 500mohm, 2W, 1%	2512	Std	Std
1	R713	0.1	Resistor, Chip, 100mohm, 2W, 1%	2512	Std	Std
2	R714, R715	0.005	Resistor, Chip, 5mohm, 2W, 1%	2512	Std	Std
2	R733, R750	0.2	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay
2	RT101, RT201	150K	NTC Thermistor, 0603, 5%.	0603	ERTJ1VV154J	Panasonic
2	S191, S291	EG1218A	Switch, SPDT, Slide, PC-mount,	0.457 x 0.157 in	EG1218A	E_Switch

3	SH301, SH302, SH303		Short jumper, should be PCB copper			
2	SW701, SW702	G12AP	Switch, ON-ON Mini Toggle	0.28 x 0.18 inc	G12AP	NKK
20	TP106, TP132, TP206, TP222, TP226, TP305, TP308, TP311, TP361, TP362, TP372, TP373, TP402, TP403, TP404, TP407, TP606, TP701, TP703, TP711	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 in	5000	Keystone
21	TP107, TP109, TP114, TP117, TP118, TP207, TP209, TP214, TP217, TP218, TP307, TP370, TP371, TP405, TP406, TP604, TP702, TP704, TP706, TP707, TP708	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 in	5001	Keystone
5	TP111, TP211, TP301, TP401, TP601	5015	Test Point, SMT	0.105 x 0.040 in	5015	Keystone
31	TP115, TP119, TP120, TP121, TP122, TP123, TP124, TP125, TP126, TP127, TP128, TP129, TP130, TP131, TP215, TP219, TP220, TP221, TP223, TP224, TP225, TP227, TP228, TP229, TP230, TP231, TP602, TP603, TP705, TP709, TP710	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 in	5002	Keystone
2	TP116, TP216	131-4244-00	Adaptor, 3.5-mm probe clip (or 131-5031-00)	0.200 inch	131-4244-00	Tektronix
2	U101, U201	TPS59610RHB	IC, Single Phase, D-Cap+ Synchronous Buck Controller	QFN-32	TPS51610RHB	TI
1	U301	TPS51916RUK	IC, Complete DDR2, DDR3 and DDR3L	QFN	TPS51916RUK	TI
1	U371	TLV71125125DSE	IC, Dual 200mA, Low IQ, LDO Regulator	SON-6	TLV71125125DSE	TI
1	U374	TPS72015YZU	IC, LDO Linear Regulator With Bias Pin, 350mA	WCSP-5	TPS72015YZU	TI
1	U375	TPS720105YZU	IC, LDO Linear Regulator With Bias Pin, 350mA	WCSP-5	TPS720105YZU	TI
1	U401	TPS53219RGT	IC, Single Synchronous Step-Down Controller	QFN-16	TPS53219RGT	TI
1	U601	TPS53311RGT	IC, 3A Step-down Regulator with Integrated Switcher	QFN-16	TPS53311RGT	TI
1	U701	TLC555CD	IC, Timer, Low-Power CMOS	SO8	TLC555CD	TI
1	U702	SN74HC08D	IC, Quadruple 2-Input Positive-And gates	SO14	SN74HC08D	TI
1	U703	UCC37324DR	IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers	SO-8	UCC37324DR	TI

- Notes: 1. These assemblies are ESD sensitive, ESD precautions shall be observed.
2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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