

PMP5927A BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
30	C1, C4, C5, C6, C11, C13, C18, C21, C25, C28, C32, C35, C39, C42, C46, C48, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88	DNP	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv muRata		5650
7	C10, C17, C24, C31, C38, C45, C52	1.5nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	STD	STD	5650
14	C2, C7, C12, C14, C19, C22, C26, C29, C33, C36, C40, C43, C47, C49	0.1uF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	10560
8	C3, C8, C15, C20, C27, C34, C41, C50	47uF	Capacitor, Aluminum, 100VDC, ±20%	0.670 x 0.750	ir EEVFK2A470Q	Panasonic	567,000
2	C53, C54	4.7uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv muRata		5650
4	C55, C56, C57, C58	0.1uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv muRata		5650
1	C59	1000pF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv muRata		5650
8	C60, C62, C63, C66, C68, C69, C72, C74	0.1uF	Capacitor, Ceramic, X7R, 16V, 10%	0603	Std	Std	5650
2	C61, C67	1000pF	Capacitor, Ceramic, X7R, 16V, 10%	0603	Std	Std	5650
2	C64, C65	22pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std.	Std.	5650
1	C70	1uF	Capacitor, Tantalum, 16V, 20%	3216	293D105X0016A21	Vishay	22575
2	C71, C73	10uF	Capacitor, Tantalum, 10V, 20%	3216	293D106X0010A21	Vishay	22575

7	C9, C16, C23, C30, C37, C44, C51	3.3uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata	5650	
7	D1, D3, D4, D5, D6, D7, D8	MBRS340T3	Diode, Schottky, 3-A, 40-V	SMC	MBRS340T3	On Semi	95000	
7	D16, D17, D18, D19, D20, D21, D22	LN1371G-(TR)	Diode, LED, Green, 20-mA, 0.9-mcd	0.068 x 0.049 ir	LN1371G-(TR)	Panasonic	8400	
1	D2	SMAJ15A-13F	Diode, SMT TVS 400W, 1-A, 15-V	SMA	SMAJ15A-13F	Diodes	52080	
1	D23	VL-LXT0805SRW-T	Diode, LED, Red, 100 mA	0805	SML-LXT0805SRW	Lumex	15300	
1	D24	LN1371G	Diode, LED, Green, 20-mA, 0.9-mcd	SMD	LN1371G	Panasonic	19,140	
	D25, D26, D27,							
4	D28	GL05T	Diode, TVS, Low Cap., V(RM) = 5 V, 300 W Pk.	SOT-23	GL05T	Vishay	14105	
1	D29	SSF-LXH305GD-TF	Diode, LED, Green, 20 mA, 30 mcd	SMD	SSF-LXH305GD-TI	Lumex	76	
1	D30	MBRA130	Diode, Schottky, 1A, 30V	SMA	MBRA130	IR	29520	
1	D31	1SMB5922BT3G	Diode, Zener, 7.5V, 3W	SMB	1SMB5922BT3G	On Semi	45600	
	D9, D10, D11, D12, D13, D14, D15	LN1271R	Diode, LED, Red, 20-mA, 0.9-mcd	0.068 x 0.049 ir	LN1271R	Panasonic	8400	
8	J1, J2, J3, J5, J6, J7, J8, J9	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609	OST		
1	J17	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125	
1	J18	PTC36DAAN	Header, 2x7 pin, 100mil spacing (36 pin strip)	0.100 inch x 2X	PTC36DAAN	Sullins	167900	
1	J19	N2510-6002-RB	Connector, Male Straight 2x10 pin, 100mil spacing, 4 Wall	0.338 x 0.788 ir	N2510-6002-RB	3M	301.024	
2	J20, J21	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000	
1	J22	UX60-MB-5ST	Connector, Recpt, USB-B, Mini, 5-pins, SMT	0.354in. x 0.300	UX60-MB-5S8	Hirose	117,342	
	JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8 JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP16	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000	
8	JP15, JP16	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000	
0	Q1, Q3, Q5, Q7, Q9, Q11, Q13	DNP	NFET	TDSON-8	Si7308	Vishay	90720	Order 50
1	Q14	IRFZ48ZS	Transistor, NFET, 61A, 55V, 11milliohm	D2PAK	IRFZ48ZS	IR	252000	Order 10
1	Q15	MMBT2907ALT1	Transistor, PNP, -60V, -600mA, 225-W	SOT23	MMBT2907ALT1	On Semi	14105	

5	Q16, Q17, Q18, Q19, Q20 Q2, Q4, Q6, Q8,	BSS84	Transistor, PFET, -50 V, 130 mA, Rds(ON) < 10 ohm @V(gs) = SOT-23		BSS84	Fairchild	14105	
6	Q10, Q12	SUD50N06-07L	MOSFET, N chan, 60V, 96A, 7.4 milli Ohm	DPAK	SUD50N06-07L	Vishay	143350	Order 50
1	Q21	MMBT2222A	Transistor, NPN, 40 V, 500 mA	SOT-23	MMBT2222A	Fairchild	14105	
0	DNP	SI7478DP	NFET, 60V		SI7478DP	Vishay		Order 50
7	Q22, Q23, Q24, Q25, Q26, Q27, Q28	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002	Diodes	14105	
6	R1, R7, R13, R19, R25, R31	30m	Resistor, Metal Film, 1/2 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay	20,000	
1	R102	200	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5650	
7	R2, R8, R14, R20, R26, R32, R38	10	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay	15,300	
7	R3, R9, R15, R21, R27, R33, R39	138k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100	
1	R37	12m	Resistor, Metal Film, 1/2 watt, ± 1%	1206	CRCW1206-xxxx-F	Vishay	20,000	
7	R4, R10, R16, R22, R28, R34, R40 R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54,	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100	
14	R55, R56	1.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650	
7	R5, R11, R17, R23, R29, R35, R41 R57, R58, R61, R105, R106, R107, R108, R109, R110,	81.6k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100	
10	R111	DNP	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100	
3	R59, R60, R64	10k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100	
7	R6, R12, R18, R24, R30, R36, R42	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650	
1	R62	20k	Resistor, Chip, 1/16W, x%	0603	Std	Std	5,650	

1	R63 R65, R71, R74,	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std	5,650
5	R91, R93	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R66, R73	332	Resistor, Chip, 1/10W, 1%	0805	Std	Std	15300
2	R67, R68	10K	Resistor, Chip, 1/16 W, 5%	0603	Std.	Std.	5650
3	R69, R70, R72 R75, R76, R89,	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
5	R90, R92	2.2K	Resistor, Chip, 1/16 W, 5%	0603	Std.	Std.	5650
1	R77	1.00M	Resistor, Chip, 1/16 W, 1%	0603	Std.	Std.	5650
3	R78, R79, R98 R80, R81, R82, R83, R94, R95, R96, R97, R99,	1.5K	Resistor, Chip, 1/16 W, 5%	0603	Std	Std	5650
11	R100, R101 R84, R85, R87,	33	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5650
5	R88, R104	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R86, R103	15.0K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	S1	KT11P2JM34LFS	Switch, SPST, PB Momentary, Sealed Washable	0.245 X 0.251	KT11P2JM34LFS	C & K	111,600

TP4, TP5, TP6,
 TP7, TP8, TP9,
 TP10, TP11, TP12,
 TP13, TP14, TP15,
 TP16, TP17, TP18,
 TP19, TP20, TP21,
 TP22, TP23, TP24,
 TP25, TP26, TP27,
 TP28, TP29, TP30,
 TP31, TP32, TP33,
 TP34, TP35, TP36,
 TP37, TP38, TP39,
 TP40, TP41, TP42,
 TP43, TP44, TP45,
 TP46, TP47, TP48,
 TP49, TP50, TP51,
 TP52, TP53, TP54,
 TP55, TP56, TP57,
 TP58, TP59, TP60,
 TP61, TP62, TP63,
 TP64, TP65, TP66,
 TP67, TP68, TP69,
 TP70, TP71, TP72,
 TP73, TP74, TP75,
 TP76, TP77, TP78,
 TP79, TP80, TP81,
 TP82, TP83, TP84,
 TP85, TP86, TP87,
 TP88, TP89, TP90,
 TP91, TP92, TP93,
 TP94, TP95, TP96,

125	TP97, TP98, TP99,	5012	Test Point, White, Thru Hole	0.125 x 0.125 ir 5012	Keystone		
1	TP120	5010	Test Point, Red, Thru Hole	0.125 x 0.125 ir 5010	Keystone		
	U1, U2, U3, U4, U5,						
7	U6, U7	TPS2492PW	IC, Positive High-Voltage Power-Limiting Hotswap Controller	TSSOP-14	TPS2492PW	TI	47.484 mm
1	U10	24LC64-I/SN	IC, Serial EEPROM, 64K, 2.5-5.5V, 400 kHz Max.	SO-8	24LC64-I/SN	Microchip	52.578
1	U11	N74CBTLV3125DB	IC, Low Voltage Quad. FET Bus Switch	TSSOP-16	SN74CBTLV3125D	TI	76160

1	U12	TUSB3210PM	IC, USB, General Purpose Device Controller	PQFP-64	TUSB3210PM**	Texas Instruments	270400
1	U13	TPS76333DBV	IC, Micro-Power 100 mA LDO Regulator	SOT23-5	TPS76333DBV	TI	16384
1	U8	UCD9090RGZ	IC, 9-Channel Sequencer and System Health Monitor	QFN-48	UCD9090RGZ	TI	116964
1	U9	SN74LVC2G125DCI	IC, Dual Bus Buffer with 3-State Outputs	VSSOP-8	SN74LVC2G125DCI	TI	21390
1	Y1	12MHZ	Crystal, 12-MHz, 20 pF, +/- 50 PPM@25C	0.185 x 0.532	CY12BPSMD	Crystek	104500

- 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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