PMP5832_REVA_SCH BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
4	C1, C2, C17, C18	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 15%	1210	Std	TDK	
1	C10	330uF	Capacitor, Aluminum, SMT, 10V, 20%, 25mOhm	7343(D4)	10TPE330M	Sanyo	62100
2	C11, C28	0.39uF	Capacitor, Ceramic, 16V, X7R, 15%	0805	Std	TDK	
2	C12, C29	56pF	Capacitor, Ceramic, 100pF, 50V, NPO, 5%	0603	Std	Std	
2	C13, C30	1uF	Capacitor, Ceramic, 1-uF, 16-V, X7R, 15%	1206	Std	TDK	15390
2	C14, C31	0.033uF	Capacitor, Ceramic, 0.033uF, 50V, X7R, 15%	0603	Std	TDK	5650
2	C15, C32	0.1uF	Capacitor, Ceramic, 0.1uF, 10V, X7R, 15%	0603	Std	TDK	5650
1	C16	470pF	Capacitor, Ceramic, 220pF, 50V, X7R, 10%	0603	Std	TDK	5650
2	C23, C24	OPEN	Capacitor, Ceramic, 10V, X5R, 15%	0805	Std	TDK	10560
1	C25	22uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0805	Std	Std	10560
2	C26, C27	470uF	Capacitor, Aluminum, SMT, 6.3V, 20%, 25mOhm	7343(D4)	6TPE680M	Sanyo	62100
2	C3, C19	330uF	Capacitor, Alum. 35VDC, ±20%	Code B	EEEFK1V331P	Panasonic	30.90 mm
1	C33	820pF	Capacitor, Ceramic, 220pF, 50V, X7R, 10%	0603	Std	TDK	5650
5	C34, C42, C50, C58, C66	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
5	C35, C43, C51, C59, C67	22uF	Capacitor, Ceramic, 10V, X5R, 20%	0805	Std	Std	10560
4	C36, C44, C52, C68	33uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1206	STD	STD	15390
5	C37, C45, C53, C61, C69	33uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1206	STD	STD	15390
5	C38, C46, C54, C62, C70	0.1uF	Capacitor, Ceramic, 10V, X5R, 20%	1210	Std	Vishay	28000
1	C39	0.033uF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
2	C4, C20	100pF	Capacitor, Ceramic, 100pF, 50V, NPO, 10%	0603	Std	TDK	5650
5	C40, C48, C56, C64, C72	Open	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
5	C41, C49, C57, C65, C73	15nF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
3	C47, C63, C71	0.01uF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
1	C4700	1800pF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
2	C5, C21	0.18uF	Capacitor, Ceramic, 0.15uF, 25V, X7R, 15%	0805	Std	TDK	
1	C55	0.015uF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
2	C6, C22	680pF	Capacitor, Ceramic, 3300pF, 50V, X7R,15%	0603	Std	TDK	5650

1	C60	Open	Capacitor, Ceramic, 6.3V, X5R, 20%	1206	STD	STD	15390
1	C6300	820pF	Capacitor, Ceramic, 16V, X7R, 10%	0402	Std	Std	2800
2	C7, C9	22uF	Capacitor, Ceramic, 10V, X5R, 15%	0805	Std	TDK	10560
1	C8	22uF	Capacitor, Ceramic,10V, X5R, 15%	0805	Std	TDK	10560
3	J1, J2, J3		Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35""	ED1609	OST	ED1609-ND
12	J4, J6, J7, J9, J10, J12, J13, J15, J16, J18, J19, J20	PEC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PEC36SAAN	Sullins	
5	J5, J8, J11, J14, J17	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
2	L1, L2	6.8uH	Inductor, Low Profile High Current, 11A, ±20%	0.51 x 0.52 inch	IHLP5050EZER6R	Vishay	342000
5	L3, L4, L5, L6, L7	2.5uH	Inductor, SMT, 4.65A, 8.1milliohm	0.402 x 0.394 in	MSS1038-252	Coilcraft	193,5
4	Q1, Q2, Q4, Q5	FDB8447L	Transistor, NFET, 50A, 40V, 8.5 milliohm	TO-263AB	FDB8447L	Fairchild	312750
2	Q3, Q6	2N7002	MOSFET, N-ch, 60-V, 115-mA, 7.5 Ohms	SOT23	2N7002	Diodes Inc	14105
2	R1, R14	324k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R10	210	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R11, R24	49.9	Resistor, Chip, 49.9 Ohms,1/16-W, 1%	0603	Std	Std	5650
2	R12, R25	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R15	20.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R18	140k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R19	26.7k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R2	16.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R23	162	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
5	R27, R35, R43, R51, R59	100k	Resistor, Chip, 1/16W, 5%	0402	Std	Std	2800
10	R28, R30, R36, R38, R44, R46, R52, R54, R60, R62	Open	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
5	R29, R37, R45, R53, R61	49.9	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
6	R3, R4, R13, R16, R17, R26	0	Resistor, Chip, 1/10W, 1%	0805	Std	Std	10560
4	R31, R39, R47, R55	10k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R32	1.96k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800

4	R33, R41, R49, R57	182k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R34	37.4k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
3	R40, R48, R56	1.5k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R42	12.4k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R5	66.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R50	22.1k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R58	8.45k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R6	16.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R63	20.5k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R64	1.78k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R65	383k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
1	R66	10.2k	Resistor, Chip, 1/16W, 1%	0402	Std	Std	2800
2	R7, R20	200k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R8, R21	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R9, R22	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
3	TP1, TP5, TP11	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 ir	5005	Keystone	
3	TP2, TP6, TP13	5006	Test Point, Black, Thru Hole Compact Style	0.125 x 0.125 ir	5006	Keystone	
5	TP20, TP27, TP34, TP41, TP48	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 ir	5001	Keystone	10
11	TP3, TP8, TP9, TP10, TP15, TP16, TP23, TP30, TP37, TP44, TP51	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir	5002	Keystone	10

	TP4, TP7, TP12, TP14, TP17, TP18, TP19, TP21, TP22, TP24, TP25, TP26, TP28, TP29, TP31, TP32, TP33, TP35, TP36, TP38, TP39, TP40, TP42, TP43, TP45, TP46, TP47,						
29	TP49, TP50	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 ir	5000	Keystone	10
2	U1, U2	TPS40055PWP	IC, Wide Input Synchronuos Buck Controller, 10-40 V Input	PWP16	TPS40055PWP	Texas Instruments	83,460
5	U3, U4, U5, U6, U7	TPS54319RTE	IC, Swift DC-DC Converter, 2.95V-6V In, 3A, 2MHz	QFN-16	TPS54319RTE	TI	33865

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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