

Filename: PMP5032\_REVA\_bom.xls

Date: August 14, 2009

updates in Test in **bold red**

## PMP5032\_REVA BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR	AREA
1	C1	1uF	Capacitor, Ceramic, 25-V, X7R, 20%	0805	GRM21BR71E1051	muRata	10560
1	C11	4.7uF	Capacitor, Ceramic, 10-V, X7R, 20%	0805	GRM21BR71A4751	muRata	10560
1	C12	2.2nF	Capacitor, Ceramic, 50V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata	5650
1	C13	<b>68nF</b>	Capacitor, Ceramic, 50V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata	5650
	C2, C14, C22*,						
4	C23*	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	std	std	83,600
1	C3*	470uF	Capacitor, Aluminum, 16V, ±20%, 160mohms, 600mA	0.328 x 0.390	ir EEEFK1C471AP	Panasonic	161,100
1	C4	0.015uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata	5650
1	C5	47pF	Capacitor, Ceramic, 50V, NPO, 10%	0603	std	muRata	5650
1	C6	1500pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	GRM39yyyxxxKvvv	muRata	5650
1	C7	<b>220nF</b>	Capacitor, Ceramic, 16V, X7R, 20%	0603	GRM39yyyxxxKvvv	muRata	5650
	C8, C9, C10, C18*,						
5	C28*	47uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	GRM32ER60J4761	muRata	83,600
2	J1, J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	inch ED1609-ND	DIGIKEY	141600
4	JP1, JP2, JP3, JP5	PTC36SAAN	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100	inch x 2	PTC36SAAN	Sullins
1	L1	0.80uH	Inductor, SMT, 31A	0.512 x 0.571	ir PG0077.801	Pulse	324000
<b>2</b>	<b>Q1, Q2</b>	CSD16321Q5	MOSFET, N-Chan, 25V, 31 A	QFN-8	POWER CSD16321Q5	TI	86800
1	R1	2k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R10	13.3K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
2	R11, R12	267K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R2	1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R3	49.9	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R33*	0.1	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay	15300
1	R4	10.0K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R5	<b>3.3</b>	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J	Vishay	9100
1	R6*	0.68	Resistor, Chip, 1/2W, 5%	2010	STD	Vishay	30800
1	R7	4.99k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R8	<b>6.34k</b>	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	R9	40.2K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	9100
1	SH1		Short jumper				
1	TP1	VIN	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	ir 5000	Keystone	10
1	TP10	HDRV	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100	ir 5002	Keystone	10
1	TP11	VOUT+	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	ir 5000	Keystone	10
1	TP13	LDRV	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100	ir 5002	Keystone	10
1	TP15	PGND	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100	ir 5002	Keystone	10

1	TP16	PGOOD/LLE	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
1	TP17	EN/SS	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
1	TP2	CHB	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
	TP3, TP5, TP6,					
4	TP18	SGND	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
1	TP4	CHA	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
1	TP7	COMP	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
1	TP8	FB	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 ir 5002	Keystone	10
2	TP9, TP14	GND	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 ir 5001	Keystone	10
1	U1	TPS40303DRC	IC, 3V-20V sync. Buck controller/Enable Light Load/Fq Spread ; DRC10	TPS40303DRC	TI	40500
1	--		PCB, 2.5 In x 2.5 In x 0.063 In	HPA353 REV E2	Any	

- 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 (\*\*\*) need to be inserted by hand per instructions on schematic.
  5. All components can be substituted with equivalent MFG's components except Q1, Q2, U1.

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