

Filename: PMP2281_REVA_bom.xls

Date: 12/27/2006

PMP2281_REVA BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
7	C1	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
	C2	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
6	C3	0.1uF	Capacitor, Ceramic, 0.1-uF, 16-V, X7R	0603	Std	Std
3	C4	10uF	Capacitor, Ceramic, 10uF, 25V, X5R	1210	GRM32DR61E106I	Murata
4	C5	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R	0805	GRM21BR60J106k	muRata
4	C6	100uF	Capacitor, Aluminum, 100uF, 6.3V, FK, 0.36 Ohm:	0.268 x 0.307	EEVFK0J101P	Panasonic
1	C7	0.1uF	Capacitor, Ceramic, 0.1uF, 16V, X7R	0603	Std	Std
	C8	0.1uF	Capacitor, Ceramic, 0.1-uF, 16-V, X7R	0603	Std	Std
3	C9	0.022uF	Capacitor, Ceramic, 0.022uF, 16V, X7R	0603	Std	Std
	C10	0.022uF	Capacitor, Ceramic, 0.022uF, 16V, X7R	0603	Std	Std
	C11	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
	C12	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
	C13	0.1uF	Capacitor, Ceramic, 0.1-uF, 16-V, X7R	0603	Std	Std
2	C14	47uF	Capacitor, Aluminum, 47uF, 35V, FK	0.268 x 0.307	EEVFK1V470P	Panasonic
	C15	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R	0805	GRM21BR60J106k	muRata
	C17	100uF	Capacitor, Aluminum, 100uF, 6.3V, FK, 0.36 Ohm:	0.268 x 0.307	EEVFK0J101P	Panasonic
5	C18	0.01uF	Capacitor, Ceramic, 0.01uF, 16V, X7R	0603	Std	Std
1	C19	open	Capacitor, open	0805		
	C20	10uF	Capacitor, Ceramic, 10uF, 25V, X5R	1210	GRM32DR61E106I	Murata
	C21	0.01uF	Capacitor, Ceramic, 0.01uF, 16V, X7R	0603	Std	Std
1	C22	4.7uF	Capacitor, 4.7uF, 6.3V	0805	Std	Std
	C23	0.1uF	Capacitor, Ceramic, 0.1-uF, 16-V, X7R	0603	Std	Std
1	C24	39pF	Capacitor, Ceramic, 39pF, 50V, COG	0603	Std	Std
2	C25	open	Capacitor, open	0603	Std	Std
	C26	0.01uF	Capacitor, Ceramic, 0.01uF, 16V, X7R	0603	Std	Std
1	C27	1uF	Capacitor, Ceramic, 1uF, 6.3V, X5R	0603	Std	Std
	C28	100uF	Capacitor, Aluminum, 100uF, 6.3V, FK, 0.36 Ohm:	0.268 x 0.307	EEVFK0J101P	Panasonic
	C29	open	Capacitor, open	0603	Std	Std
	C30	0.01uF	Capacitor, Ceramic, 0.01uF, 16V, X7R	0603	Std	Std
	C31	0.1uF	Capacitor, Ceramic, 0.1-uF, 16-V, X7R	0603	Std	Std
	C32	10uF	Capacitor, Ceramic, 10uF, 25V, X5R	1210	GRM32DR61E106I	Murata
	C33	0.022uF	Capacitor, Ceramic, 0.022uF, 16V, X7R	0603	Std	Std
	C34	0.1uF	Capacitor, Ceramic, 0.1-uF, 16-V, X7R	0603	Std	Std
	C35	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
	C36	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R	0805	GRM21BR60J106k	muRata
	C37	100uF	Capacitor, Aluminum, 100uF, 6.3V, FK, 0.36 Ohm:	0.268 x 0.307	EEVFK0J101P	Panasonic
	C38	0.01uF	Capacitor, Ceramic, 0.01uF, 16V, X7R	0603	Std	Std
	C40	47uF	Capacitor, Aluminum, 47uF, 35V, FK	0.268 x 0.307	EEVFK1V470P	Panasonic

	C41	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
	C42	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R	0805	GRM21BR60J106k	muRata
	C43	1000pF	Capacitor, Ceramic, 1000pF, 25V, X7R	0603	Std	Std
3	D1	MA2J729	Diode, Schottky Barrier, 300mA, 30 V	SC-90A	MA2J729	Panasonic
3	D2	open	Diode, open	SC-90A	open	
	D3	open	Diode, open	SC-90A	open	
	D4	MA2J729	Diode, Schottky Barrier, 300mA, 30 V	SC-90A	MA2J729	Panasonic
	D5	MA2J729	Diode, Schottky Barrier, 300mA, 30 V	SC-90A	MA2J729	Panasonic
	D6	open	Diode, open	SC-90A	open	
5	J1	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
	J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	J3		Header, 8-pin, 100mil spacing, (36-pin strip)	0.100 x 8"	PTC36SAAN	Sullins
	J4	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
	J5	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
	J6	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
3	L1	10uH	Inductor, SMT, 3.8A, 38milliohm	0.51x0.37 inch	DO3316P-103	Coilcraft
	L2	10uH	Inductor, SMT, 3.8A, 38milliohm	0.51x0.37 inch	DO3316P-103	Coilcraft
	L3	10uH	Inductor, SMT, 3.8A, 38milliohm	0.51x0.37 inch	DO3316P-103	Coilcraft
2	Q1	FDS9926A	MOSFET, Dual N-ch, 20V, 6.5A, 30milliohm	SO8	FDS9926A	Fairchild
	Q2	FDS9926A	MOSFET, Dual N-ch, 20V, 6.5A, 30milliohm	SO8	FDS9926A	Fairchild
3	Q3	DTC144EK	Transistor, Digital NPN, 50 V, 100 mA	SOT-323	DTC144EK	ROHM
	Q4	DTC144EK	Transistor, Digital NPN, 50 V, 100 mA	SOT-323	DTC144EK	ROHM
1	Q5	NDS8425	MOSFET, N-ch, 20-V, 7-A, 22-milliohms	SO8	NDS8425	Fairchild
	Q6	DTC144EK	Transistor, Digital NPN, 50 V, 100 mA	SOT-323	DTC144EK	ROHM
1	Q11	FDS6890A	MOSFET, Dual N-ch, 20V, 7.5A, 18milliohm	SO8	FDS6890A	Fairchild
2	R1	47	Resistor, Chip, 47 Ohms, 1/16-W, 1%	0603	Std	Std
	R2	47	Resistor, Chip, 47 Ohms, 1/16-W, 1%	0603	Std	Std
2	R3	36K	Resistor, Chip, 36K Ohms, 1/16-W, 5%	0603	Std	Std
	R4	33K	Resistor, Chip, 33K Ohms, 1/16-W, 5%	0603	Std	Std
4	R5	0	Resistor, Chip, 0 Ohms	0603	Std	Std
3	R6	2K	Resistor, Chip, 2K Ohms, 1/16-W, 1%	0603	Std	Std
	R7	2K	Resistor, Chip, 2K Ohms, 1/16-W, 1%	0603	Std	Std
3	R8	18K	Resistor, Chip, 18K Ohms, 1/16-W, 5%	0603	Std	Std
2	R9	33K	Resistor, Chip, 33K Ohms, 1/16-W, 5%	0603	std	Std
	R10	18K	Resistor, Chip, 18K Ohms, 1/16-W, 5%	0603	Std	Std
1	R11	6.8K	Resistor, Chip, 6.8K Ohms, 1/16-W, 5%	0603	std	Std
1	R12	1.3K	Resistor, Chip, 1.3K Ohms, 1/16-W, 1%	0603	Std	Std
1	R13	1.3K	Resistor, Chip, 1.30K Ohms, 1/16-W, 1%	0603	Std	Std
5	R14	10	Resistor, Chip, 10 Ohms, 1/16-W, 1%	0603	Std	Std
	R15	0	Resistor, Chip, 0 Ohms	0603	Std	Std
	R16	0	Resistor, Chip, 0 Ohms	0603	Std	Std
1	R17	0.012	Resistor, Chip, 0.012 Ohms, 1/4-W	1206	Std	Std
	R18	10	Resistor, Chip, 10 Ohms, 1/16-W, 1%	0603	Std	Std
5	R19	0	Resistor, Chip, 0 Ohms, 1/16-W, 1%	0603	Std	Std

	R20	0	Resistor, Chip, 0 Ohms, 1/16-W, 1%	0603	Std	Std
	R21	0	Resistor, Chip, 0 Ohms, 1/16-W, 1%	0603	Std	Std
1	R22	36K	Resistor, Chip, 20K Ohms, 1/16-W, 1%	0603	Std	Std
	R23	0	Resistor, Chip, 0 Ohms, 1/16-W, 1%	0603	Std	Std
1	R24	10K	Resistor, Chip, 10K Ohms, 1/16-W, 1%	0603	Std	Std
	R25	18K	Resistor, Chip, 18K Ohms, 1/16-W, 5%	0603	std	Std
	R26	0	Resistor, Chip, 0 Ohms	0603	Std	Std
1	R27	18K	Resistor, Chip, 18K Ohms, 1/16-W, 1%	0603	Std	Std
1	R31	1.3K	Resistor, Chip, 1.30K Ohms, 1/16-W, 1%	0603	Std	Std
	R33	36K	Resistor, Chip, 36K Ohms, 1/16-W, 5%	0603	Std	Std
	R34	0	Resistor, Chip, 0 Ohms, 1/16-W, 1%	0603	Std	Std
	R35	2K	Resistor, Chip, 2K Ohms, 1/16-W, 1%	0603	Std	Std
1	R36	12K	Resistor, Chip, 12K Ohms, 1/16-W, 5%	0603	std	Std
	R37	10	Resistor, Chip, 10 Ohms, 1/16-W, 1%	0603	Std	Std
	R38	10	Resistor, Chip, 10 Ohms, 1/16-W, 1%	0603	Std	Std
	R39	10	Resistor, Chip, 10 Ohms, 1/16-W, 1%	0603	Std	Std
19	TP1		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP2		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP3		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP4		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP5		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP6		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP7		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP8		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP9		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP10		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP11		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP12		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP13		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP14		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP15		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP16		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP17		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP18		Test Point, Black, 1mm	0.038	240-333	Farnell
	TP19		Test Point, Black, 1mm	0.038	240-333	Farnell
1	U1	TPS5130PT	IC, Tripple Synchronous Buck Controller With NM(PT-48		TPS5130PT	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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