

PMP206 Rev B Bill Of Materials

7/10/02

RefDes	Part Number	Description	Mfr	
Q3	MMBT5551LT1	Bipolar, NPN, 150-V, 1-A	ON Semi	
C1	EEF-UE0J181R	Capacitor, Aluminum-SP, 180uF, 6.3V, 20%	Panasonic	
C11	EEF-UE0J181R	Capacitor, Aluminum-SP, 180uF, 6.3V, 20%	Panasonic	
C12	EEF-UE0J181R	Capacitor, Aluminum-SP, 180uF, 6.3V, 20%	Panasonic	
C17	Std	Capacitor, Ceramic, 0.1uF, 16V, X7R, 0603	Std	
C6	Std	Capacitor, Ceramic, 0.1uF, 16V, X7R, 0603	Std	
C9	Std	Capacitor, Ceramic, 0.1uF, 16V, X7R, 0603	Std	
C2	Std	Capacitor, Ceramic, 0.1uF, 200V, X7R, 1812	Std	
C19	Std	Capacitor, Ceramic, 1000pF, 50V, X7R, 0603	Std	
C13	Std	Capacitor, Ceramic, 1000pF, 50V, X7R, 0603	Std	
C16	Std	Capacitor, Ceramic, 100pF, 50V, NPO, 0603	Std	
C18	Std	Capacitor, Ceramic, 100pF, 50V, NPO, 0603	Std	
C3	Std	Capacitor, Ceramic, 100pF, 50V, NPO, 0603	Std	
C103	Std	Capacitor, Ceramic, 100pF, 50V, X7R, 0603	Std	
C101	Std	Capacitor, Ceramic, 10-uF, 16-V, X5R, 1210	Std	
C102	Std	Capacitor, Ceramic, 10-uF, 16-V, X5R, 1210	Std	
C8	Std	Capacitor, Ceramic, 10-uF, 16-V, X5R, 1210	Std	
C22	Std	Capacitor, Ceramic, 1uF, 100V, X7R, 2220	Std	
C23	Std	Capacitor, Ceramic, 1uF, 100V, X7R, 2220	Std	
C24	Std	Capacitor, Ceramic, 1uF, 100V, X7R, 2220	Std	
C100	Std	Capacitor, Ceramic, 1uF, 16V, X7R, 0805	Std	
C104	Std	Capacitor, Ceramic, 1uF, 16V, X7R, 0805	Std	
C105	Std	Capacitor, Ceramic, 1uF, 16V, X7R, 0805	Std	
C5	Std	Capacitor, Ceramic, 1uF, 16V, X7R, 0805	Std	
C7	Std	Capacitor, Ceramic, 1uF, 16V, X7R, 0805	Std	
C106		Capacitor, Ceramic, 2200pF, 2kV, X7R, 1812	AVX	
C14	Std	Capacitor, Ceramic, 3300pF, 50V, X7R, 0603	Std	
C4	Std	Capacitor, Ceramic, 330pF, 50V, NPO, 0603	Std	
C15	Std	Capacitor, Ceramic, 33pF, 50V, NPO, 0603	Std	
D2	MMSD914	Diode, Schottky, 200-mA, 100-V	ON Semi	
D100	BAT54T1	Diode, Schottky, 600-mA, 30-V	ON Semi	SHORT
D9	BAT54T1	Diode, Schottky, 600-mA, 30-V	ON Semi	SHORT
D4	BAS16	Diode, Switching, SOT23	On Semi	
D3	BZX84C12LT1	Diode, Zener, 12-V, SOT23	On Semi	
D101	BZX84C5V1LT1	Diode, Zener, 5.1-V, SOT23	On Semi	
U4	TL331DBV	IC, COMPARATOR, DIFFERENTIAL, SINGLE	TI	
U5	H11A817B	IC, Optocoupler, 5300-V, 50-160% CTR	QT Optoelectronics	
U7	H11A817	IC, Optocoupler, 5300-V, 50-160% CTR	QT Optoelectronics	
U1	UCC2580D-1	IC, PWM Controller	TI	
U2	TLV431ACDBV5	IC, Shunt Regulator, 1.24-V ref, 6-V, 10-mA, 1%	TI	
U6	TLV431ACDBV5	IC, Shunt Regulator, 1.24-V ref, 6-V, 10-mA, 1%	TI	
L1	PA0373	Inductor, 2uH, 2A, with auxiliary winding	Pulse	SHORT
Q5	HAT2099H	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	HITACHI	SHORT
Q6	HAT2099H	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	HITACHI	SHORT
Q8	HAT2099H	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	HITACHI	SHORT
Q9	HAT2099H	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	HITACHI	SHORT
Q5A	PH3230	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	PHILLIPS	ALTERNATE
Q6A	PH3230	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	PHILLIPS	ALTERNATE
Q8A	PH3230	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	PHILLIPS	ALTERNATE
Q9A	PH3230	MOSFET, N-ch, 30-V, 50-A, 2.9-milliOhms	PHILLIPS	ALTERNATE

Q1	Si7846DP	MOSFET, NChannel, 150V, 6.7A, 50 milliohm,	
Q2	IRF6216	MOSFET, P-ch, 150-V, 2.2A, 240-milliohm	International Rectifier
R103	ERJL1WKJ10C	Resistor, Chip, 0.1-Ohms, 1-W, 5%	Panasonic
R2	ERJL1WKJ10C	Resistor, Chip, 0.1-Ohms, 1-W, 5%	Panasonic
R102	Std	Resistor, Chip, 10 Ohms, 1%, 0603	Std
R19	Std	Resistor, Chip, 10 Ohms, 1%, 0805	Std
R20	Std	Resistor, Chip, 10 Ohms, 1%, 0805	Std
R21	Std	Resistor, Chip, 100k, 1%, 0603	Std
R7	Std	Resistor, Chip, 100k, 1%, 0603	Std
R100	Std	Resistor, Chip, 10k, 1%, 0603	Std
R25	Std	Resistor, Chip, 10k, 1%, 0603	Std
R26	Std	Resistor, Chip, 10k, 1%, 0603	Std
R30	Std	Resistor, Chip, 10k, 1%, 0603	Std
R33	Std	Resistor, Chip, 10k, 1%, 0603	Std
R38	Std	Resistor, Chip, 10k, 1%, 0603	Std
R32	Std	Resistor, Chip, 150k, 1%, 0603	Std
R8	Std	Resistor, Chip, 150k, 1%, 0603	Std
R101	Std	Resistor, Chip, 1k, 1%, 0603	Std
R27	Std	Resistor, Chip, 1k, 1%, 0603	Std
R3	Std	Resistor, Chip, 1k, 1%, 0603	Std
R4	Std	Resistor, Chip, 200k, 1%, 0603	Std
R24	Std	Resistor, Chip, 23.7k, 1%, 0603	Std
R9	Std	Resistor, Chip, 26.7k, 1%, 0603	Std
R29	Std	Resistor, Chip, 3.48k, 1%, 0603	Std
R37	Std	Resistor, Chip, 30.1k, 1%, 0603	Std
R16	Std	Resistor, Chip, 34.8k, 1%, 0603	Std
R5	Std	Resistor, Chip, 4.02k, 1%, 0603	Std
R34	Std	Resistor, Chip, 4.53k, 1%, 0603	Std
R41	Std	Resistor, Chip, 4.99k, 1%, 0603	Std
R6	Std	Resistor, Chip, 45.3k, 1%, 0603	Std
R22	Std	Resistor, Chip, 49.9k, 1%, 0603	Std
R12	Std	Resistor, Chip, 49.9k, 1%, 0805	Std
R28	Std	Resistor, Chip, 499 Ohms, 1%, 0603	Std
R35	Std	Resistor, Chip, 499 Ohms, 1%, 0603	Std
R23	Std	Resistor, Chip, 750 Ohms, 1%, 0603	Std
R31	Std	Resistor, Chip, 9.53k, 1%, 0603	Std
TP7	240-333	Test Point, Black, 1mm	Farnell
TP4	240-345	Test Point, Red, 1mm	Farnell
TP5	240-345	Test Point, Red, 1mm	Farnell
T1	PA0369	Transformer, 6:1	Pulse
Q100	MMBT3904LT1	TRANSISTOR, NPN, 40V, 200mA	ON Semi
Q4	MMBT3904LT1	TRANSISTOR, NPN, 40V, 200mA	ON Semi

NOTE:

Q5, Q6, Q8, Q9 can be populated with HAT2099H or alternate part PH3230 but don't mix the parts on the same board!

T1 mounts a little bit crooked.

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