



TEXAS INSTRUMENTS

Title			DM6467		
Size	Number	PMP3109		Rev	D
Date	12-28-2007	Drawn by	R Kollman		
Filename	PMP3109_REV_C.sch	Sheet	1 of 1		

PMP3109_REV_D BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C1	22uF	Capacitor, Ceramic, 1210, 25V, X7R	1210	C3225X5R1E226K	TDK
1	C11	10pF	Capacitor, Ceramic, 10-pF, 50-V, C0G, 5%	0603	C1608C0G1H100DB	TDK
1	C12	22uF	Capacitor, Aluminum, 6.3V, ±20%	0.200 x 0.210 inch	EEVFK0J220R	Panasonic
1	C13	1uF	Capacitor, Ceramic, 1uF, 16V, X7R	0603	Std	Std
2	C2, C10	1uF	Capacitor, Ceramic, 25V, X7R	0805	std	std
1	C3	1uF	Capacitor, Ceramic, 0603, 6.3V	0603	Std	Std
2	C4, C9	47 uF	Capacitor, Ceramic, 1210, 6.3V, X5R	1210	Std	Std
1	C5	10uF	Capacitor, Ceramic, 10-uF, 6.3-V, X5R	0603	std	std
1	C6	1000pF	Capacitor, Ceramic, 0603, X7R	0603	Std	Std
1	C7	330pF	Capacitor, Ceramic, NPO, 0603	0603	Std	Std
1	C8	47pF	Capacitor, Ceramic, 0603	0603	Std	Std
1	D1	TLV1117-18CDCY	IC, 1.8V, 800mA LDO Voltage Regulators	SOT-223	TLV1117-18CDCY	TI
2	J1, J2	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	ED1609	OST
1	J3	PTC36SAAN	Header, Male 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins
1	L1	4.7uH	Inductor, Power, 6A, zzmiliohm	0.484 x 0.484 inch	MSS1278-103X_	Coilcraft
1	L2	6.8uH	Inductor, SMT, 8.0A, 60.0milliohm	0.255 x 0.270 inch	IHLP2525CZ-01	Vishay
2	Q1, Q2	FDS6298	MOSFET, N-ch, 30-V, 13-A, 9.0-milliOhms	SO8	FDS6298	Fairchild
1	Q3	SI3457BDV	MOSFET, Pch, -30V, -5A , 54milliOhms	TSOP-6	SI3457BDV	Vishay
2	R1, R2	100k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R10	48.7k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R11	562k	Resistor, Chip, 562k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R12	1M	Resistor, Chip, 95.3K-Ohms, 1/16-W, 1%	0603	Std	Std
1	R13	301k	Resistor, Chip, 301k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R15	100k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R16	1K	Resistor, Chip, 1K ohms, 1/16W, 1%	0603	Std	Std
2	R17, R18	10k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R3	17.8k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R4	41.2k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R5	0	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R6	51.1k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R7	49.9k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R8	15.0k	Resistor, Chip, 0603, 1%	0603	Std	Std
1	R9	3.01k	Resistor, Chip, 0603	0603	Std	Std
1	U1	TPS40195RGY	IC, 4.5V to 20V Sync buck controller with sync and pgood	QFN-16	TPS40195RGY	TI
1	U2	TPS62110RGV	IC, Synchronous Step-Down Converter, 17V, 1.2A	QFN-16	TPS62110RGV	TI
1	U3	TLC272CD	IC, Precision Dual Operational Amplifiers	SO8	TLC272CD	TI
1	U4	TL1431DBVR	IC, Precision Adjustable Shunt Regulator	SOT23-5	TL1431DBVR	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.

PMP3109 Power-on Sequencing

This design meets the low-to-high power-on sequencing as required by the DM6467.

