



Texas Instruments

Title PTH08T230W & PTH08T210W, TPS62110 buck		
Size C	Number PMP149.2	Rev A
Date 9/16/09	Drawn by S Bhuyan	
Filename PMP149.2_REVA.SCH	Sheet 1 of 1	

PMP5149.2 REV A BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
	C1, C2, C11, C12, C13, C18, C21, C22, C24	1uF	Capacitor, Ceramic, X7R, 16V	0603	Std	TDK	
3	C10, C14, C23	0.1uF	Capacitor, Ceramic, X7R, 16V	0603	Std	TDK	
1	C15	10pF	Capacitor, Ceramic, X5R, 25V	0603	Std	TDK	
2	C16, C17	10uF	Capacitor, Ceramic, X7R, 16V	1210	Std	TDK	
1	C20	4.7uF	Capacitor, Ceramic, X5R, 25V	0603	Std	TDK	
2	C25, C27	470uF	Capacitor, Aluminum, 10V, ±20%	0.406 x 0.457 inch	EEVFK1E471P	Panasonic	
4	C3, C4, C5, C6	47uF	Capacitor, Ceramic, 6.3V, X5R	1206	Std	TDK	
1	C7	220uF	Capacitor, Aluminum, vV, ±20%	0.328 x 0.328 inch	EEVFK1E221P	Panasonic	
	C8, C9, C19, C26, C28, C29	10uF	Capacitor, Ceramic, X5R, 25V	1210	Std	TDK	
7	J1, J2, J3, J4, J5, J6, J7	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	
1	L1	6.8uH	Inductor, SMT, 3.6A, 18 milliohm	0.402 x 0.394 inch	MSS1048-682NL	Coilcraft	
2	R1, R19	DNP	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay	
1	R10	496.2k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R13	1M	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R14	301	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R16	38.3k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R18	26.7k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
	R2, R6, R7, R8, R15, R17, R21	10k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R22	97.6k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay	
1	R23	205k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay	
1	R3	11.5k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R4	2.37k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay	
4	R5, R11, R12, R20	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
1	R9	13.3k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay	
	TP1, TP2, TP3, TP5, TP6, TP7, TP9, TP11, TP12, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP23, TP24, TP25, TP26, TP29	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	
8	TP27, TP28	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	
3	U1, U3, U5	TPS74401RGW	IC, 1.5 A LDO With Programmable Soft-Start	QFN-20	TPS74401RGW	TI	
1	U2	PTH08T230WAS	Module, 6A, 4.5V to 14V Input, Non Isolated, Wide Output, Adj. Power w/ Turbotrans	0.600 x 0.745 inch	PTH08T23xWAS	TI	
1	U4	TPS62110PW	IC, Synchronous Step-Down Converter, 17V, 1.5A	TSSOP-14	TPS62110PW	TI	
1	U6	PTH08T210WAS	Module, Non-Isolated, 5.5-14Vin, 0.7-3.6 Vout, 30 Iout	1.370 x 0.620 inch	PTH08T210WAS	TI	

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