



S3 and S5 Control Enable Structure

State	S3	S5	VDDQ	VTTREF	VTT
S0	High	High	On	On	On
S3	Low	High	On	On	Off (Hi-Z)
S4/S5	Low	Low	Off (Discharge)	Off (Discharge)	Off (Discharge)

High = 3.3V or 5V
Low = Gnd

- Design Notes:**
- Over-current resistor calculations were done with the Mosfet at 75C and output current margin of 20%.
 - L1 part number is IHLP2525EZER1R0M01 (1.0uH, 11A, 0.010 Ohms, Vishay Dale).
 - C4 part number is 2R5TPE330MCC2 (330uF, 2.5V, 0.012 Ohms, Case C, Sanyo).
 - C1 and C2 part numbers are Ceramic, size 1210 and rated to 16V.

**Modified From PMP2141 by Robert Taylor
Built on PMP2141 PCB**

TEXAS INSTRUMENTS

Title 1.5V@9A & 0.75V@3A TPS51116 / CSD16xxx		
Size C	Number PMP5225	Rev A
Date November 19, 2009	Drawn by Josh Mandelcorn	
Filename PMP5225_REVA.sch	Sheet 1 of 1	

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