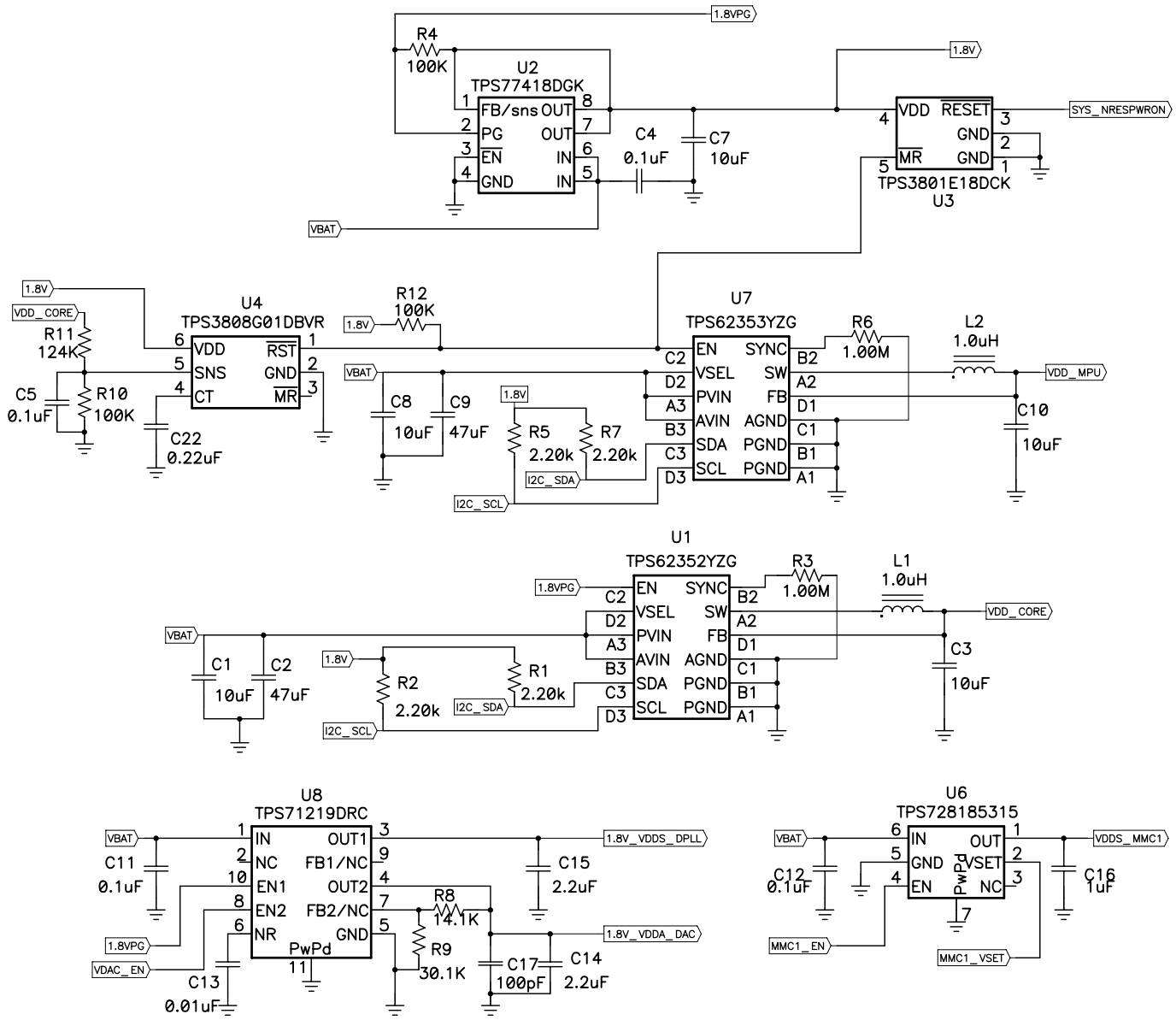

Texas Instruments

Title: OMAP3503 Discrete Power		
Size: B	Number: PR785	Rev: E3
Date: Thu Jul 03, 2008		Drawn by: Rob Stoneham
Engineer: David Arciniega	Filename: PR785E3.sch	Sheet 2 of 2

Filename: PR785E3 SHEET 2 ONLY_bom.xls
Date: 07/03/2008

PR785E3 SHEET2 ONLY BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
4	C1, C3, C8, C10	10uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0603	Std	Std
1	C13	0.01uF	Capacitor, Ceramic, 16V, X5R, 10%	0603	Std	Std
2	C14, C15	2.2uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0603	Std	Std
1	C16	1uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0603	Std	Std
1	C17	100pF	Capacitor, Ceramic, 16V, X5R, 10%	0402	Std	Std
2	C2, C9	47uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0805	Std	Std
1	C22	0.22uF	Capacitor, Ceramic, 16V, X5R, 10%	0603	Std	Std
4	C4, C5, C11, C12	0.1uF	Capacitor, Ceramic, 16V, X5R, 10%	0603	Std	Std
1	C7	10uF	Capacitor, Ceramic, 6.3V, X5R, 10%	0805	Std	Std
2	L1, L2	1.0uH	Inductor, SMT, 1.6A, ±30%	0.118 x 0.118	LPS3010-102NLC	Coilcraft
4	R1, R2, R5, R7	2.20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	124K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R3, R6	1.00M	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R4, R10, R12	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	14.1K	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	R9	30.1K	Resistor, Chip, 1/16W, 1%	0402	Std	Std
1	U1	TPS62352YZG	IC, 3MHz Synchronous Step Down Converter with I²C, 800mA	CSP-12	TPS62350YZG	TI
1	U2	TPS77418DGK	IC, 250mA LDO Regulator With Power Good Output	DGK8	TPS77418DGK	TI
1	U3	TPS3801E18DCK	IC, Voltage Supervisor	SOP-5 (DCK)	TPS3801E18DCK	TI
1	U4	TPS3808G01DBVR	IC, Low Quiescent Current, Programmable vv-V, Delay Time: 1.25ms to10s	SOT23-6	TPS3808G01DBVR	TI
1	U6	TPS728185315	IC, 200 mA, LDO with Pin Selectable Dual Output Voltage Levels	SON-6	TPS728185315	TI
1	U7	TPS62353YZG	IC, 3MHz Synchronous Step Down Converter with I²C, 800mA	CSP-12	TPS62350YZG	TI
1	U8	TPS71219DRC	IC, Dual 250mA Output, Ultralow Noise, High PSRR, LDO Linear Regulator	DRC10	TPS71219DRC	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.

Power-up sequencing diagram for TPS6235x-based power solution for OMAP35x