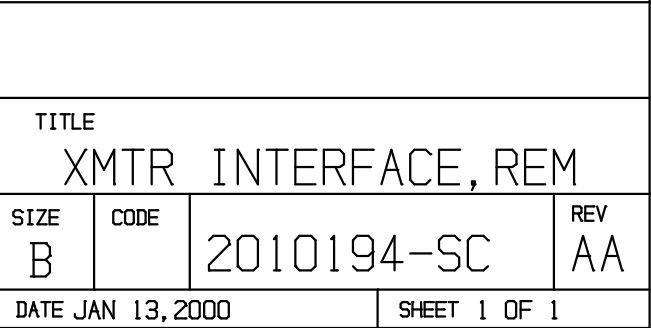
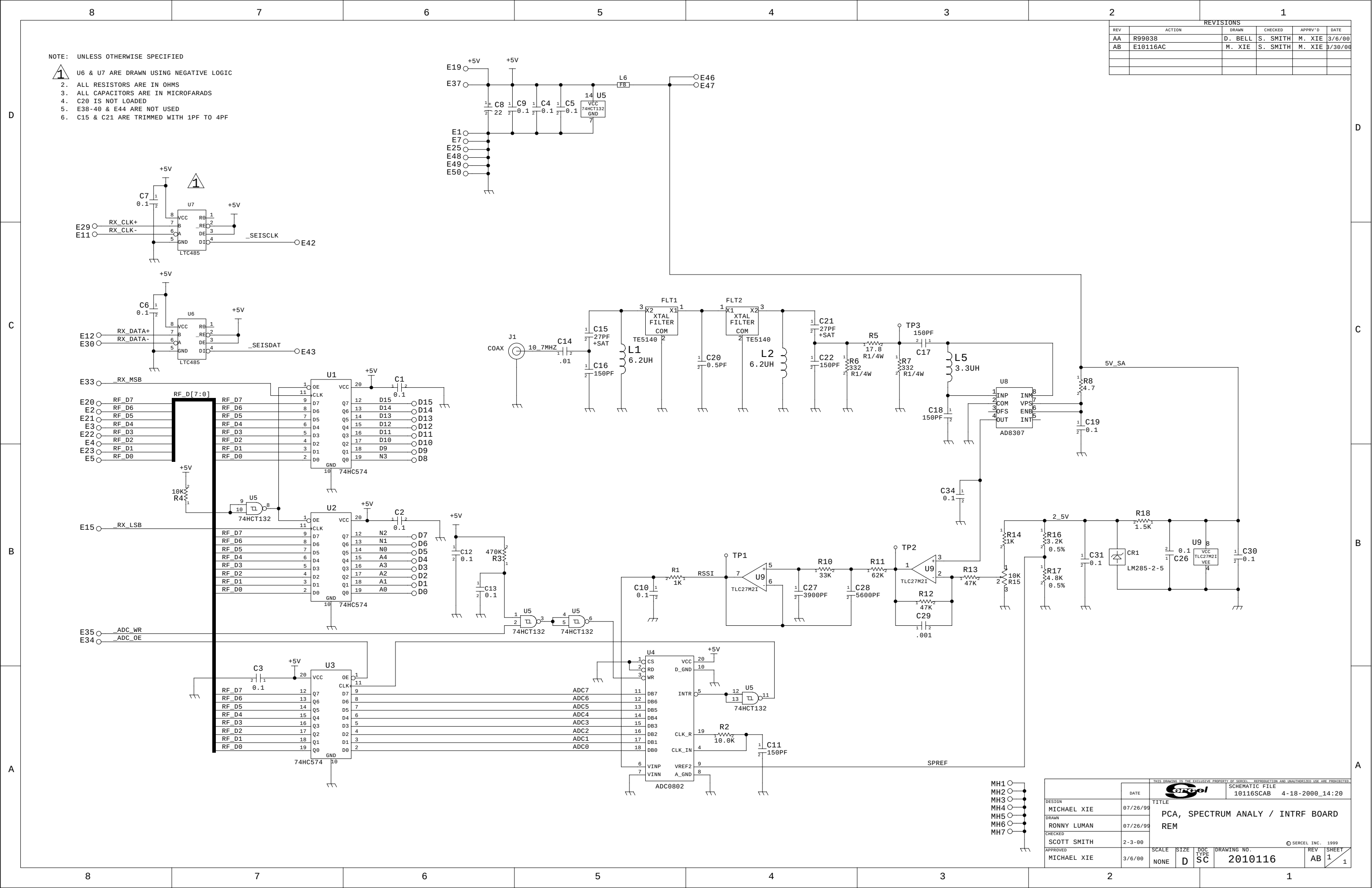
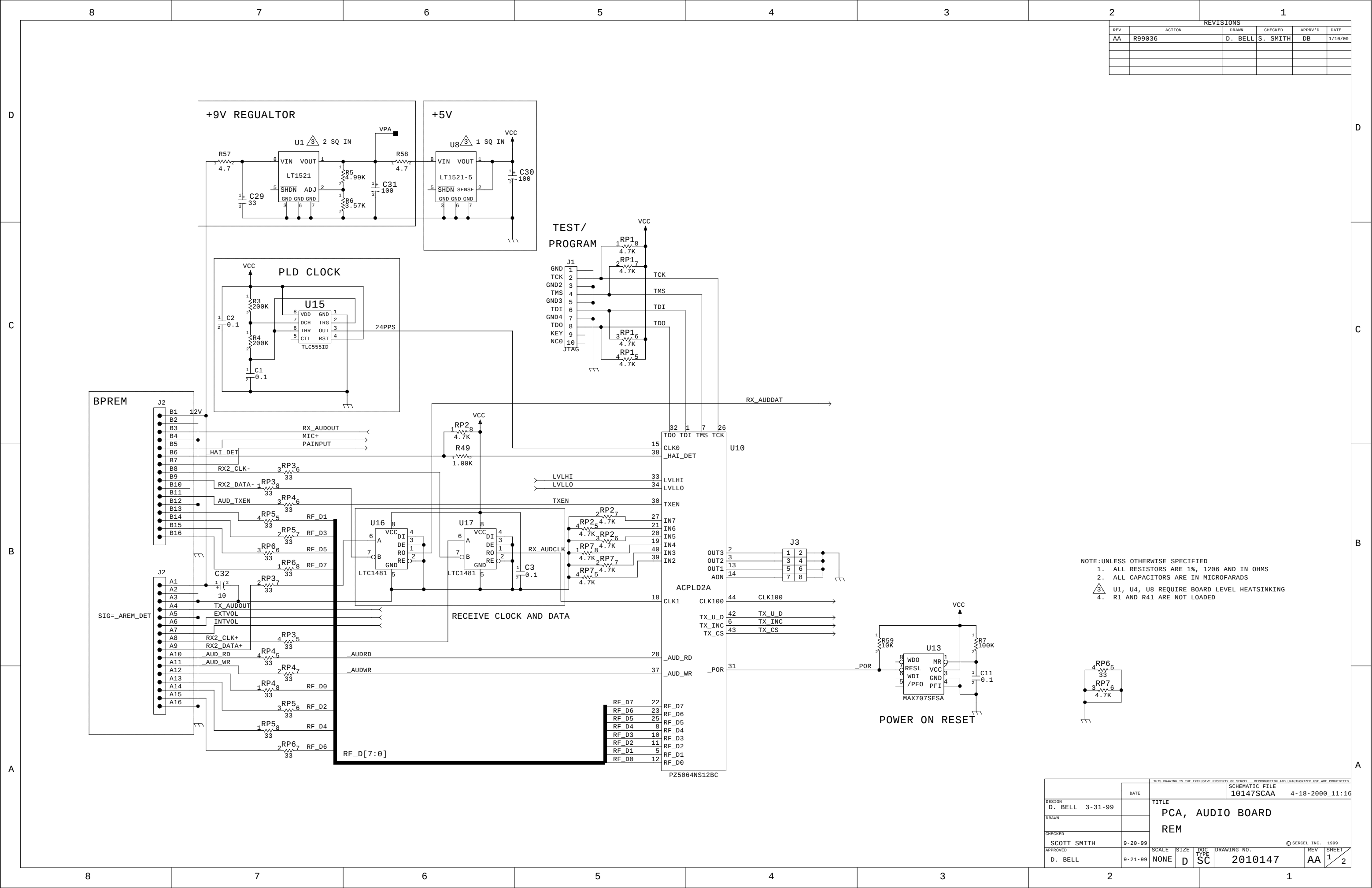
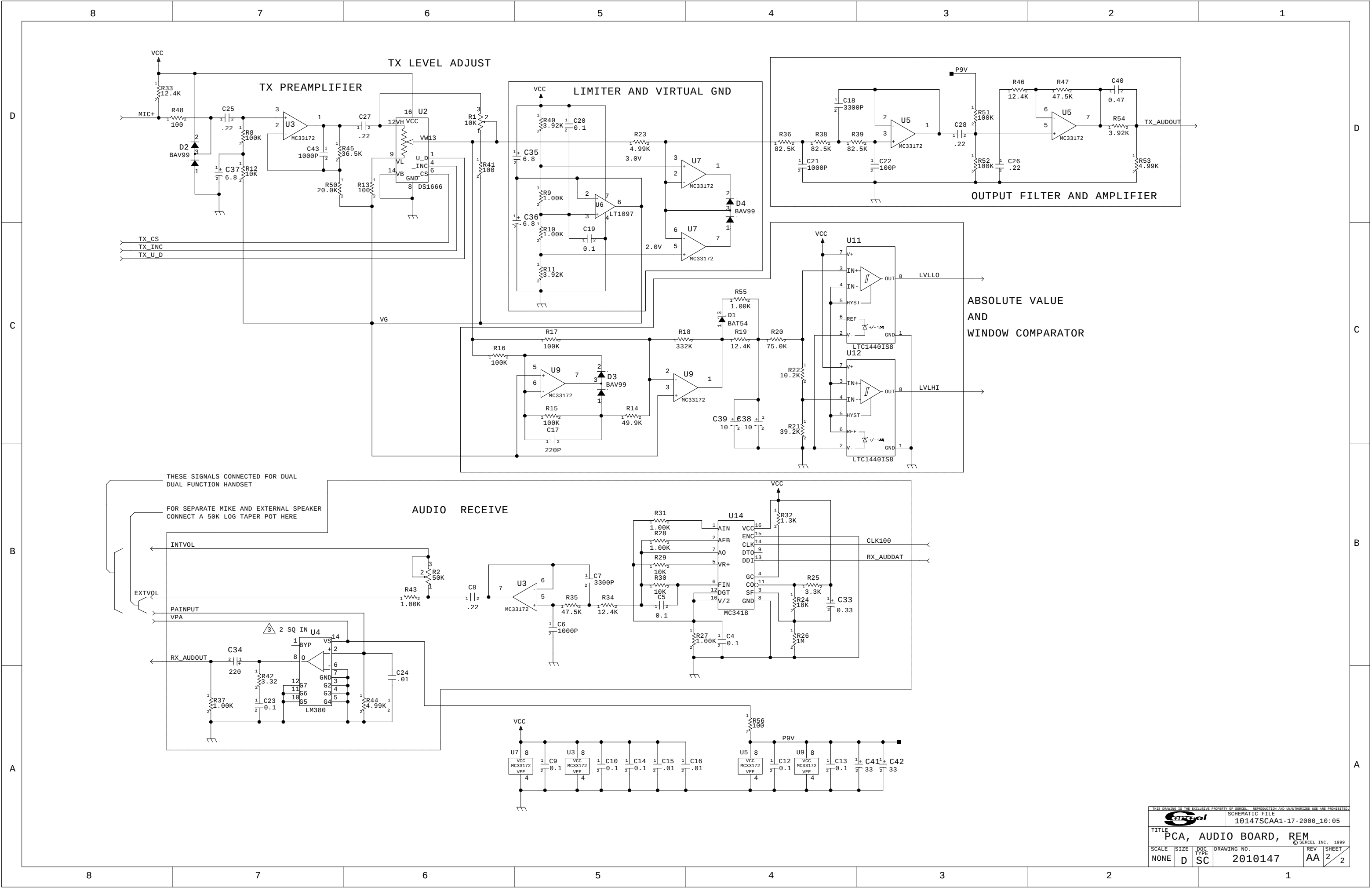










NOTES:
▲ MOUNTING TERMINAL (ITEM 30) ON Q3 TO CONTACT U1.

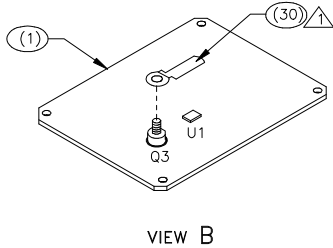
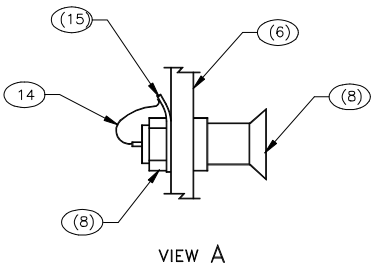
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AA	R99021	C. TRAN	S. SMITH	M. XIE	10/5/99
AB	E10144AB	C. TRAN	S. SMITH	M. XIE	10/15/99
AC	E10144AC	C. TRAN	S. SMITH	M. EATON	1/26/00

WIRING PREP.

END 1	END 2	WIRE COLOR	LENGTH (APPROX.) IN.	DESCRIPTION		END 1	END 2	WIRE COLOR	LENGTH (APPROX.) IN.	DESCRIPTION	
				RF MODULE	BPREM					RF MODULE	BPREM
P1-1	CRDI-E1	BLACK	3.0	GND	GND	P2-1	CXPWR-E10A	BLACK	7.0	GND	GND
P1-2	CRDI-E2	BLUE	5.0	D6	RF_D6	P2-2	CXPWR-E10B	BLACK	7.0	GND	GND
P1-3	CRDI-E3	GRAY	5.5	D4	RF_D4	P2-3	CXPWR-E10C	BLACK	7.0	GND	GND
P1-4	CRDI-E4	VIOLET	5.5	D2	RF_D2	P2-4	CXPWR-E10D	BLACK	7.0	GND	GND
P1-5	CRDI-E5	YELLOW	5.5	D0	RF_D0	P2-5	CXPWR-E6A	ORANGE	7.0	+12VX	+12VX
P1-6	CRDI-E48	WHITE	3.0	REV. 1	RX_REV. 1	P2-6	N/C				
P1-7	CRDI-E7	BLACK	3.0	GND	GND	P2-7	N/C				
P1-8	CRDI-E8	VIOLET	5.5	XMIT_ON	XMIT_ON	P2-8	N/C				
P1-9	CRDI-E9	BROWN	4.0	CLK-	RX_CLK-	P2-9	CXPWR-E3A	RED	6.0	+12V	+12V
P1-10	CRDI-E10	WHITE	3.0	DATA-	RX_DATA-	P2-10	CXPWR-E3B	RED	6.0	+12V	+12V
P1-11	N/C					P2-11	CXPWR-E3C	RED	6.0	+12V	+12V
P1-12	N/C					P2-12	CXPWR-E3D	RED	6.0	+12V	+12V
P1-13	N/C					P2-13	N/C				
P1-14	CRDI-E41	YELLOW	5.0	MANCHESTER DATA OUT (AUDIO) TX_LSB	TX_LSB	P2-14	N/C				
P1-15	CRDI-E15	ORANGE	6.0			P2-15 CON	CXSYN-E8 CON	COAX COAX	9.5	200KHZ GND	REF_200KHZ GND
P1-16	N/C					P2-1 SHIELD	CXSYN-E7 SHIELD				
P1-17	N/C										
P1-18	N/C										
P1-19	CRDI-E19	RED	5.5	+5V	+5V						
P1-19	CXPWR-E14 "LONG"	RED	5.5	+5V	+5V						
P1-20	CRDI-E20	GRAY	5.5	D7	RX_D7						
P1-21	CRDI-E21	VIOLET	4.5	D5	RX_D5						
P1-22	CRDI-E22	YELLOW	5.5	D3	RX_D3						
P1-23	CRDI-E23	BLUE	5.0	D1	RX_D1						
P1-24	CRDI-E24	WHITE	4.0	REV. 0	RX_REV. 1/0						
P1-25	CRDI-E25	BLACK	3.5	GND	GND						
P1-26	CRDI-E8	COAX	11.0	TEMP. SENSOR							
P1-27	CRDI-E27	GREEN	4.5	CLK+	RX_CLK+						
P1-28	CRDI-E28	YELLOW	4.5	DATA+	RX_DATA+						
P1-29	N/C										
P1-30	N/C										
P1-31	N/C										
P1-32	CSYN-E4	YELLOW	7.5	TX_DATA (AUDIO) TX_MSB							
P1-33	CXDI-E33	ORANGE	6.0								
P1-34	N/C										
P1-35	N/C										
P1-36	N/C										
P1-37	CXDI-E37	RED	4.5	+5V	+5V						

5 1
9 6
SOLDER SIDE

19 1
37 20
SOLDER SIDE

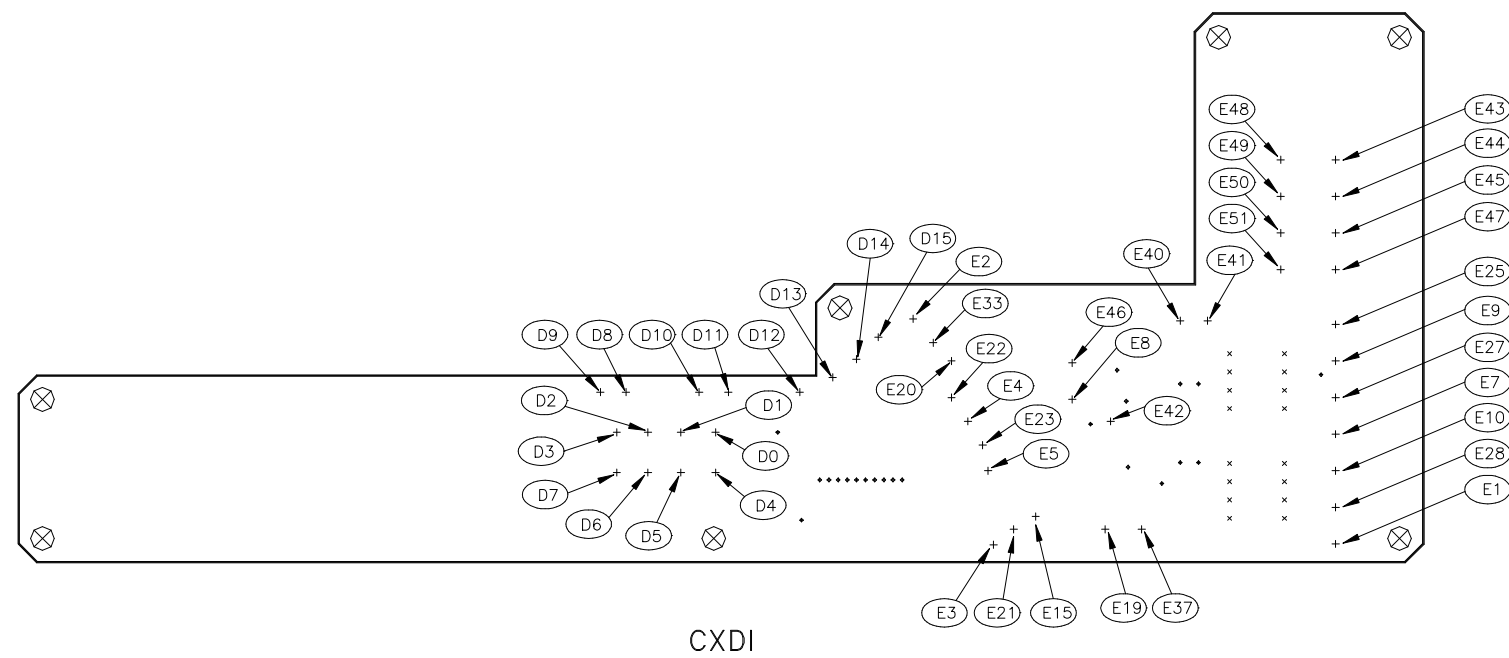


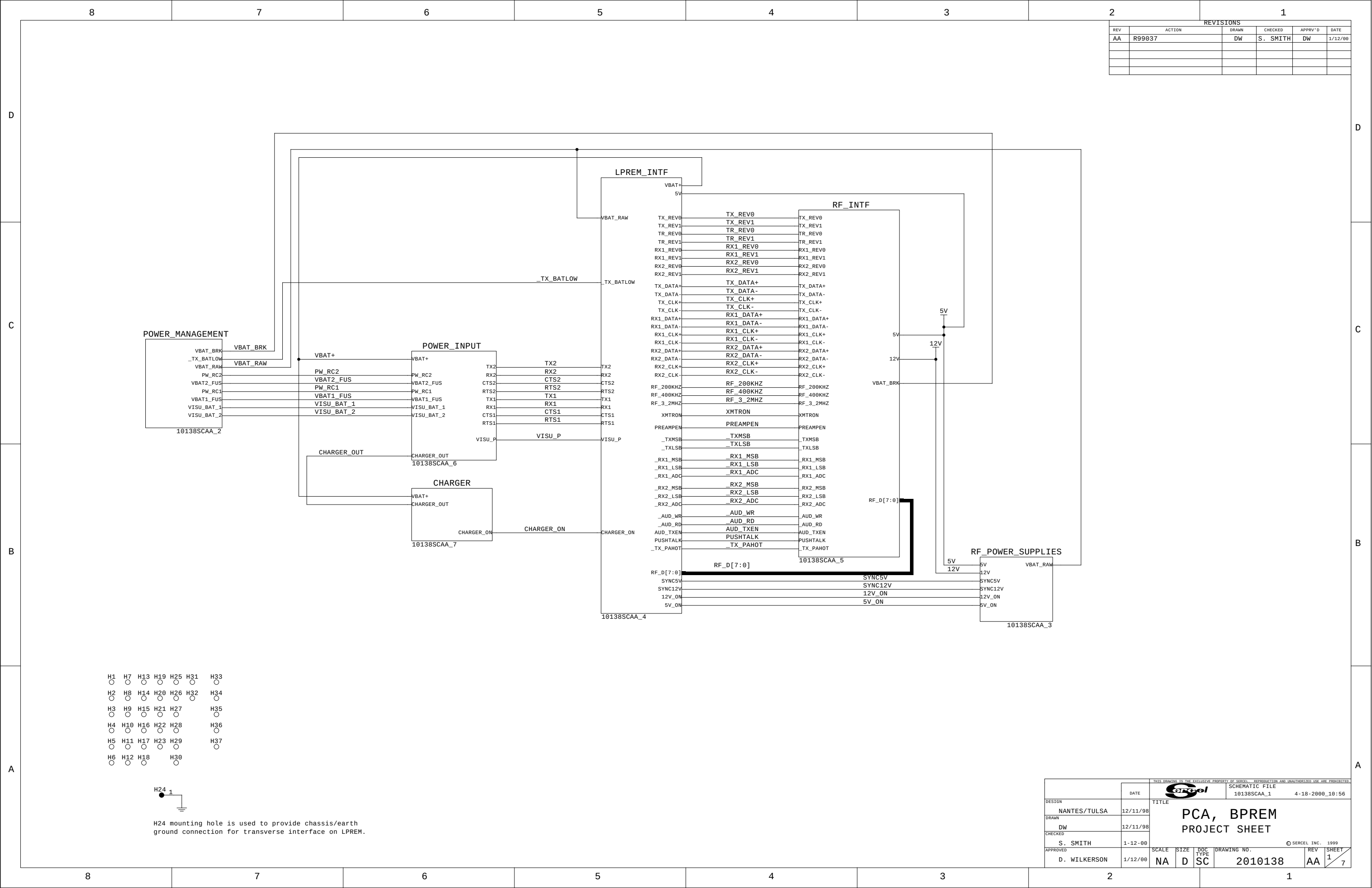
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		DESIGN	M. XIE	DATE	9/99	THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SEI/SEL. / REPRODUCTION AND UNAUTHORIZED USE ARE PROHIBITED.	
DECIMAL	ANGLE	DRAWN	C. TRAN	9/24/99		DRAWING FILE	AC10144DAC
.XX ±	±	CHECKED	S. SMITH	1/26/00		TITLE	ASSEMBLY DRAWING TRANSMITTER MODULE REM
.XXX ±		APPROVED	M. EATON	1/26/00		SCALE	NONE
DO NOT SCALE DRAWING						SIZE	D
BREAK ALL SHARP CORNERS AND EDGES						TYPE	AD
DIMENSIONS APPLY BEFORE FINISH						DRAWING NO.	2010144
						REV.	AC 1/2

The figure displays three circuit board layouts, each with its own set of terminal labels and component placements.

- REM CXPA:** A rectangular board with terminals E1, E2, E3, and E4 along the top edge. A GND terminal is located on the right side. Terminals E7 and E8 are on the bottom edge.
- CXSYN:** A square board with a central component. Terminals D0 through D9 are labeled with colors: D0 (BLACK), D1 (BROWN), D2 (RED), D3 (ORANGE), D4 (YELLOW), D5 (GREEN), D6 (BLUE), D7 (VIOLET), D8 (GRAY), D9 (WHITE). Terminals E1 through E11 are also present, along with a central component labeled C.
- CXPWR:** A square board with terminals E1 through E15. Additional terminals E3A through E3D, E10A through E10D, and E13 are also shown.

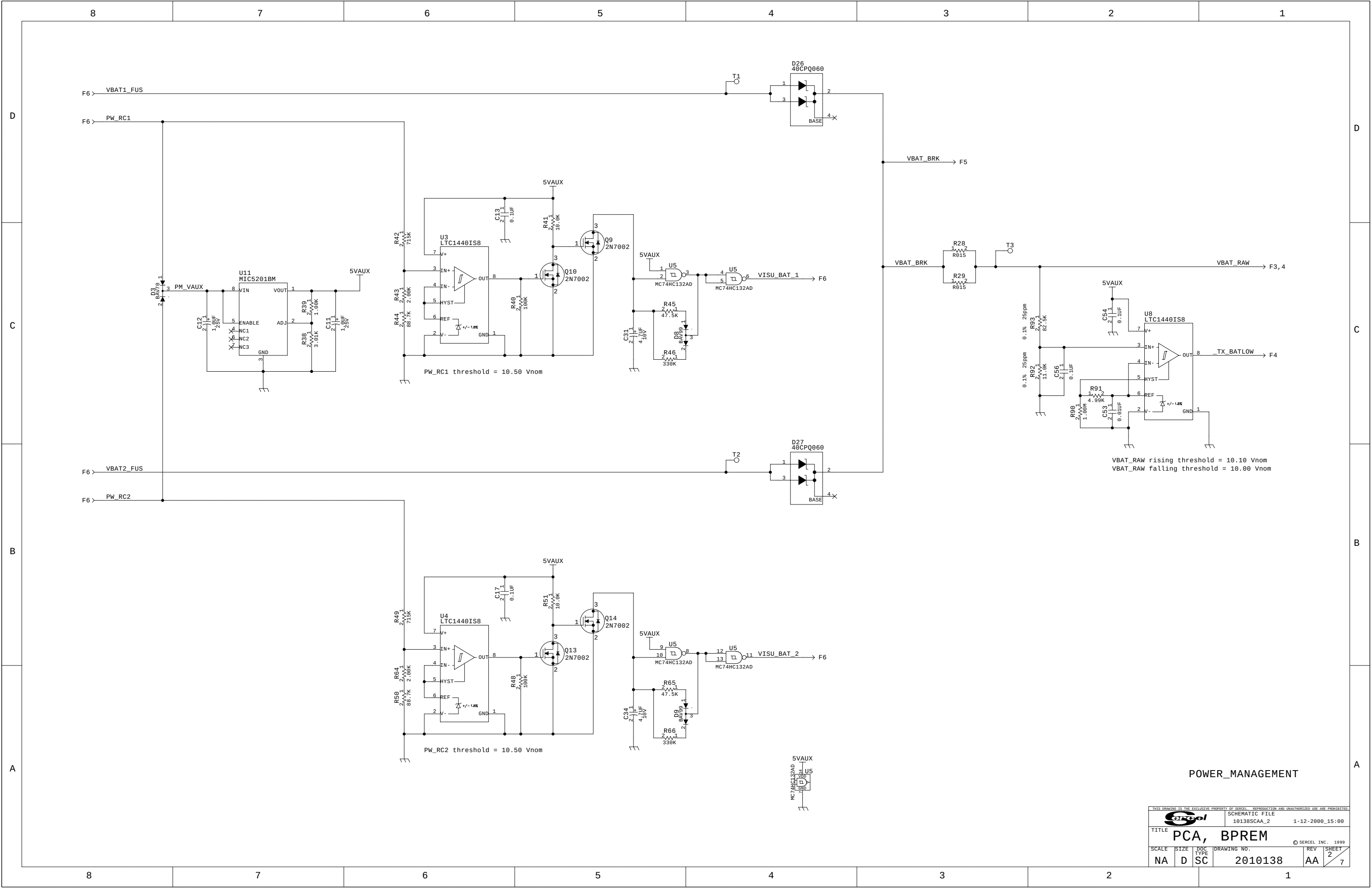
PCA WIRING HOOKUP TABLE			
END 1	END 2	WIRE COLOR	DESCRIPTION
J1 BNC CON	CXPA-E4	COAX	RF_OUT
J1 BNC SHIELD	CXPA-E6	COAX	RF_GND
CXSYN-E1	CXPA-E1	COAX	RF_IN
CXSYN-E2 SHIELD	CXPA-E5	COAX	RF_GND
CXPWR-E6A	CXPA-E2	ORANGE	+12Vxin
CXPWR-E5	CXPA-E3	ORANGE	PA+12V
CXPWR-E7A	CXSYN-E6	RED	+5Vx
CXPWR-E8A	CXSYN-E3	BLACK	+8Vx
CXPWR-E15	CXSYN-E12	WHITE	+5Vx
CXPWR-E1	CXDI-E46	WHITE	TX_ON
CXPWR-E2	CXDI-D13	GRAY	PWR_LEVEL_SELECT
CXPWR-E13	CXDI-E42	BLUE	FREQ_DATA_ENABLE
CXSYN-D0	CXDI-D0	BLACK	FREQ_DATA_BUS
CXSYN-D1	CXDI-D1	BROWN	FREQ_DATA_BUS
CXSYN-D2	CXDI-D2	RED	FREQ_DATA_BUS
CXSYN-D3	CXDI-D3	ORANGE	FREQ_DATA_BUS
CXSYN-D4	CXDI-D4	YELLOW	FREQ_DATA_BUS
CXSYN-D5	CXDI-D5	GREEN	FREQ_DATA_BUS
CXSYN-D6	CXDI-D6	BLUE	FREQ_DATA_BUS
CXSYN-D7	CXDI-D7	VIOLET	FREQ_DATA_BUS
CXSYN-D8	CXDI-D8	GRAY	FREQ_DATA_BUS
CXSYN-D9	CXDI-D9	WHITE	FREQ_DATA_BUS
CXSYN-A	CXDI-D10	GRAY	GAIN_SELECT_BUS
CXSYN-B	CXDI-D11	GRAY	GAIN_SELECT_BUS
CXSYN-C	CXDI-D12	GRAY	GAIN_SELECT_BUS





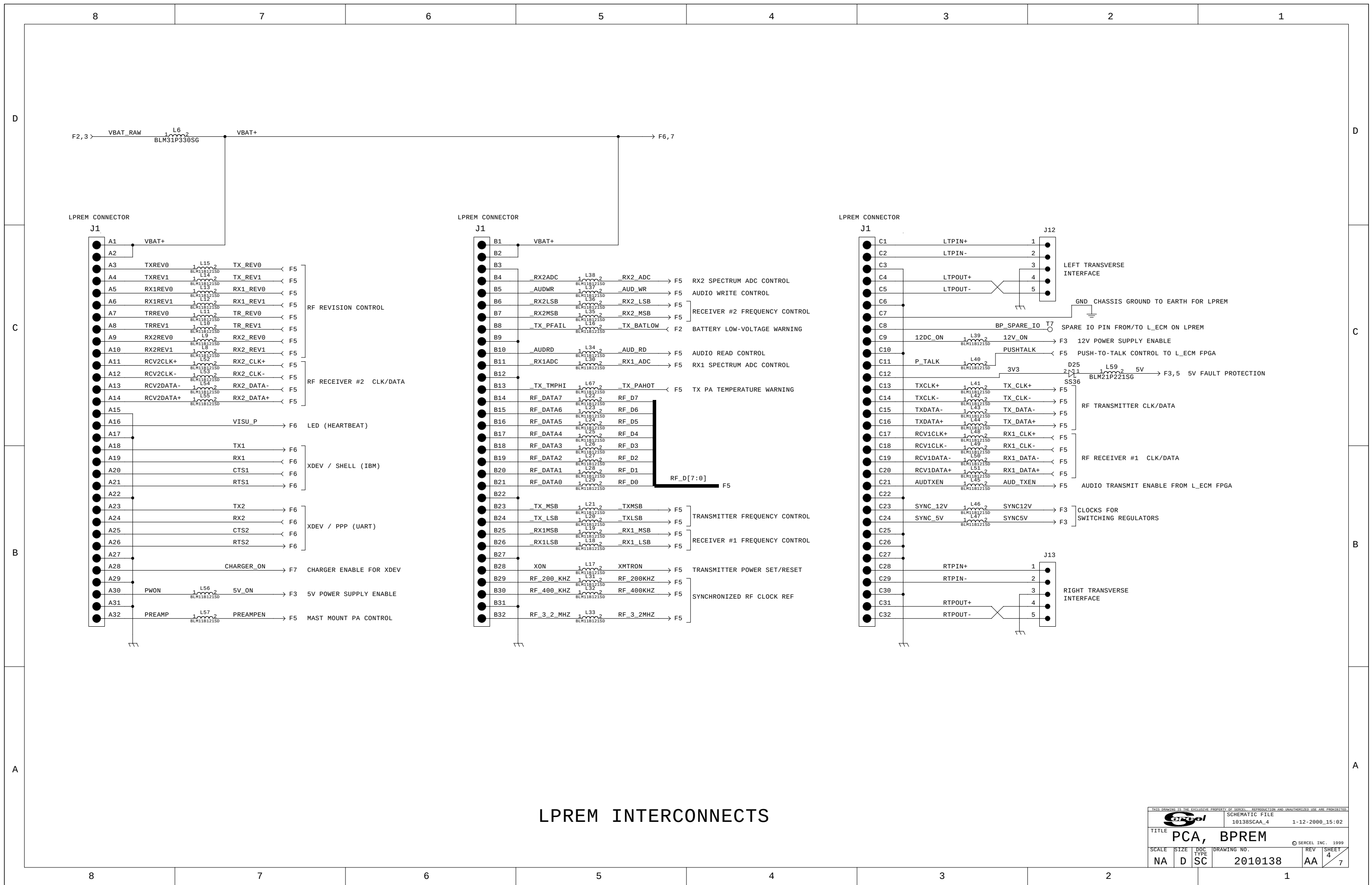
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AA	R99037	DW	S. SMITH	DW	1/12/00

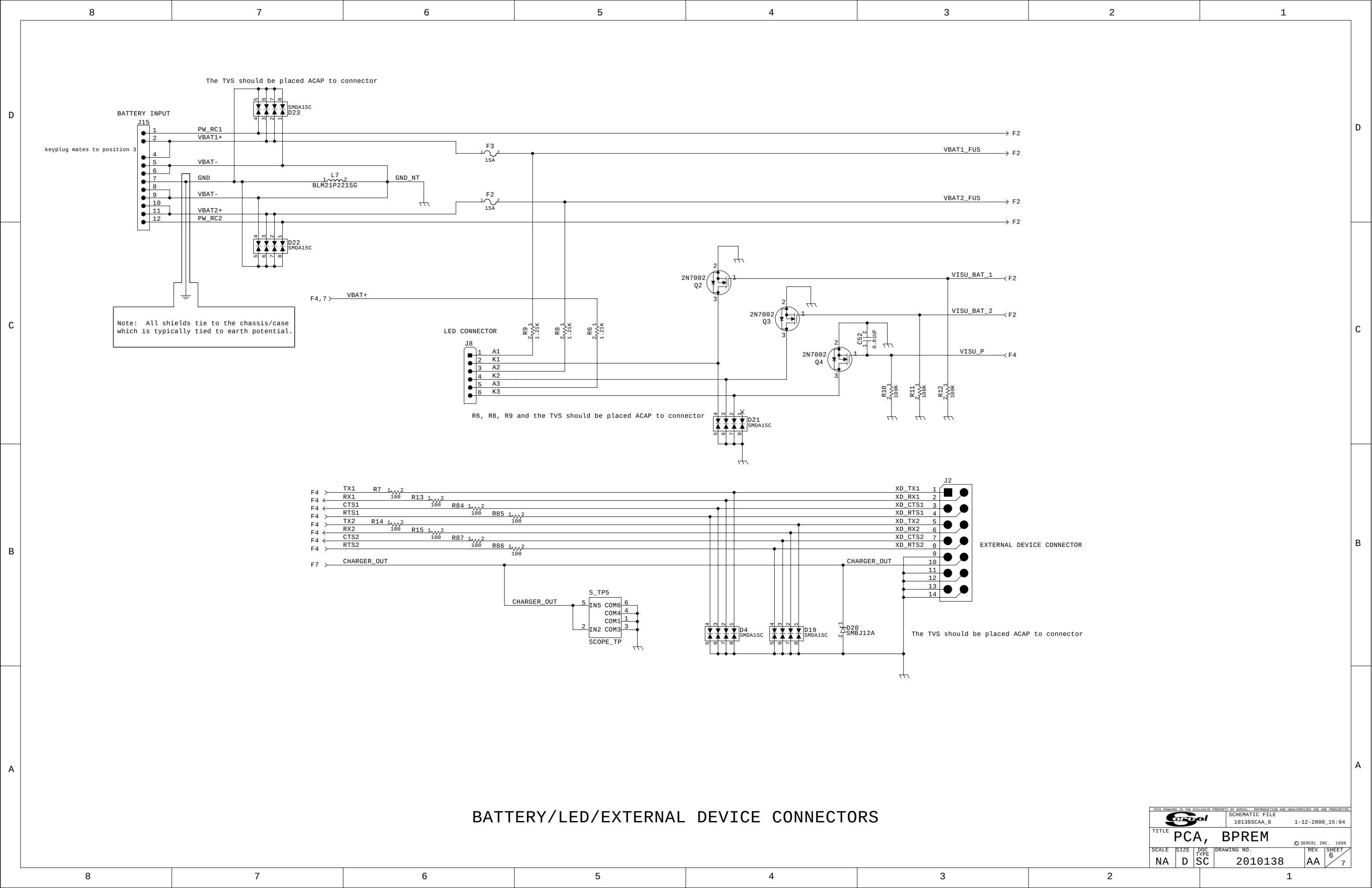
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DRAWN		12/11/98	PROJECT SHEET		
DW		1-12-00			
S. SMITH		1/12/00			
APPROVED		1/12/00	SCALE	SIZE	DOC TYPE
D. WILKERSON		1/12/00	NA	D	SC
			DRAWING NO.	REV	SHEET
			2010138	AA	1/7

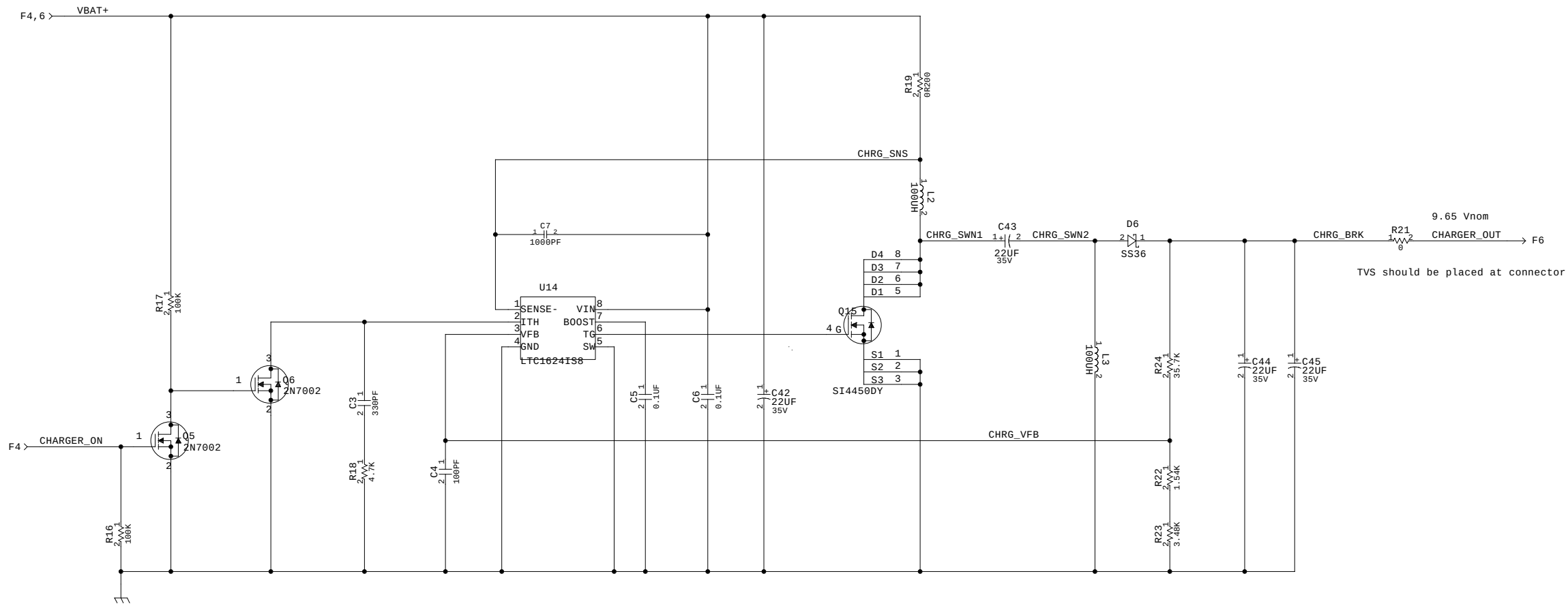


POWER_MANAGEMENT

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SERCEL		SCHEMATIC FILE		1-12-2000_15:00			
TITLE		PCA, BPREM		© SERCEL INC. 1999			
SCALE	SIZE	DWG TYPE	DRAWING NO.	REV	SHEET		
NA	D	SC	2010138	AA	2	7	

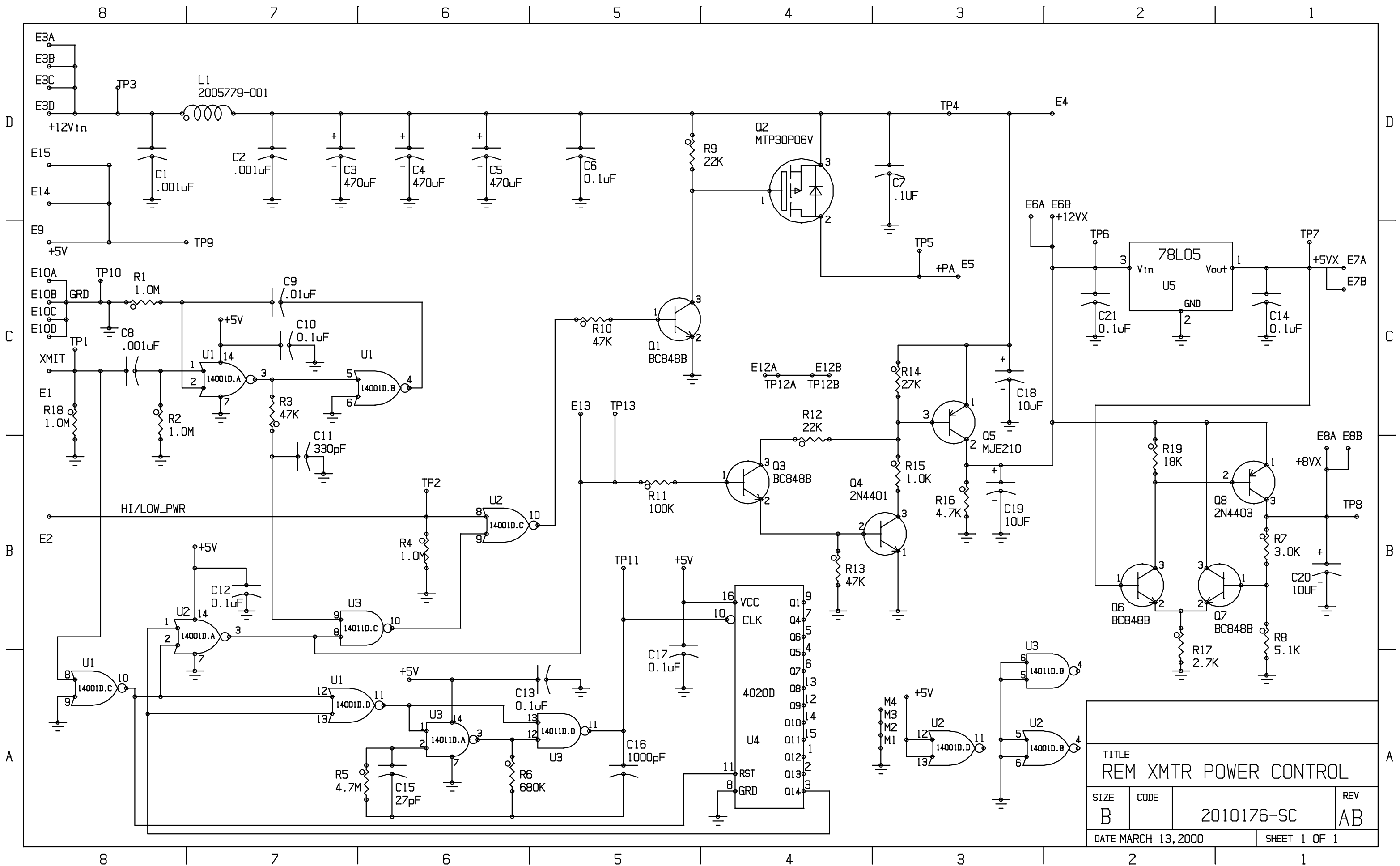




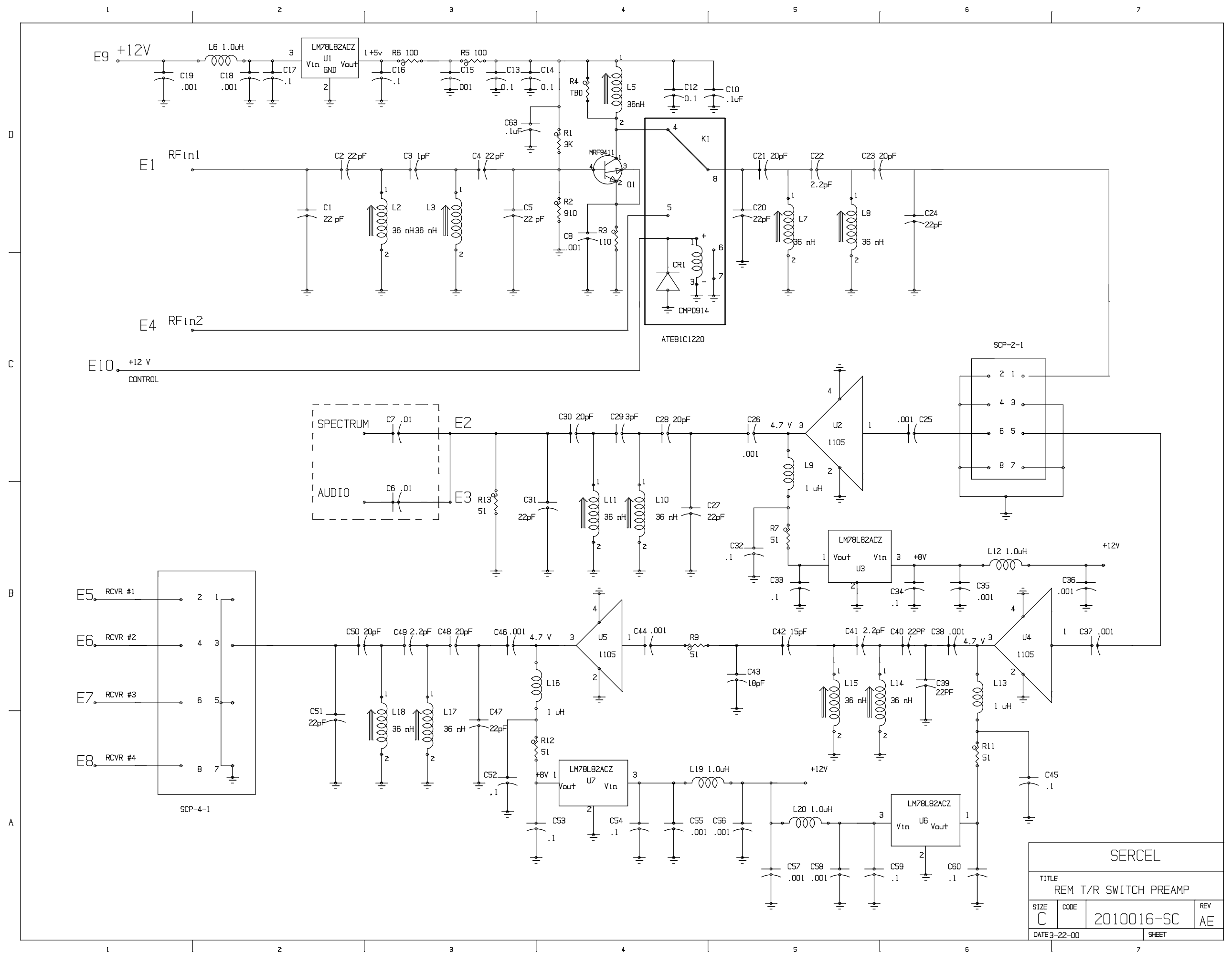


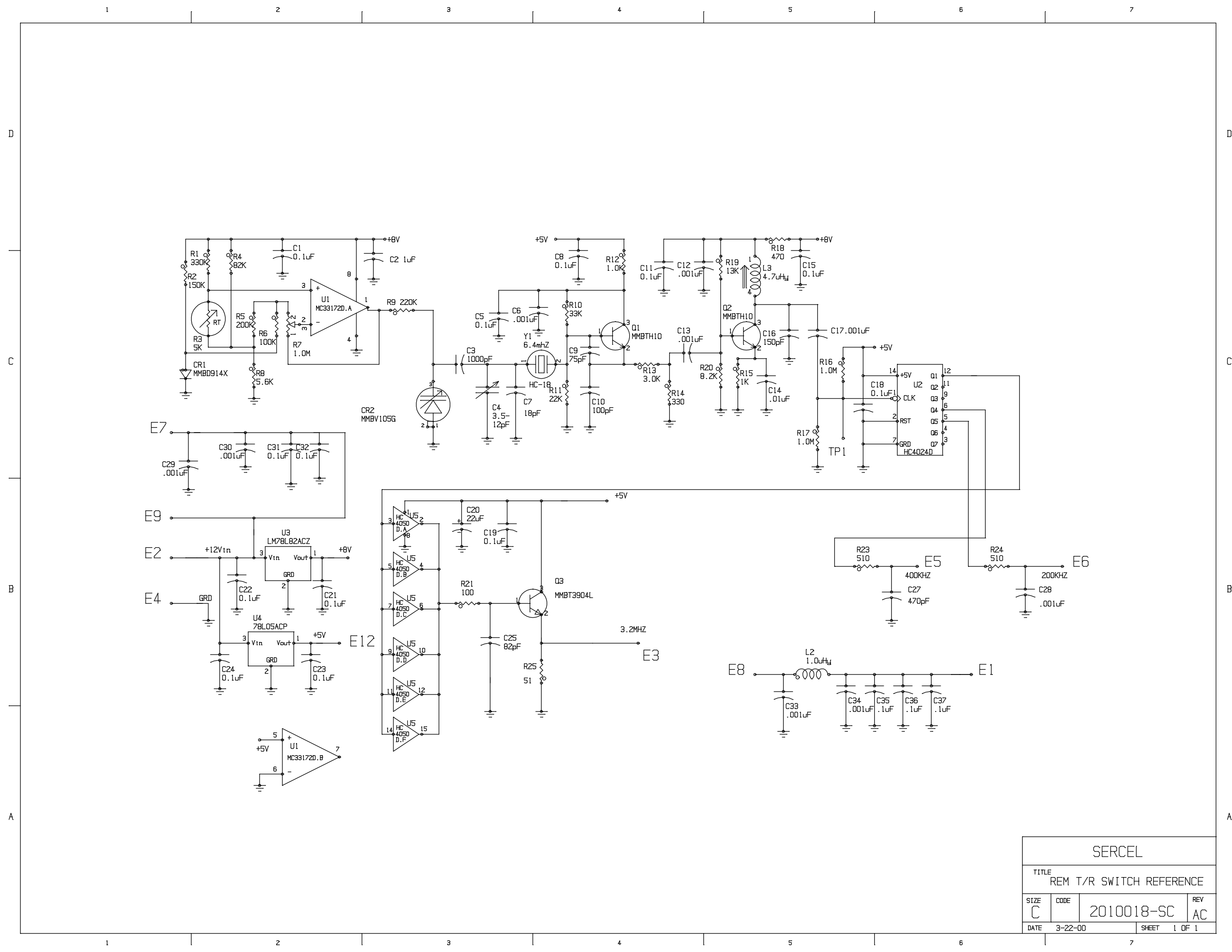
EXTERNAL DEVICE BATTERY CHARGER

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TITLE PCA, BPREM					
© SERCEL INC. 1999					
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					SHEET 7 7

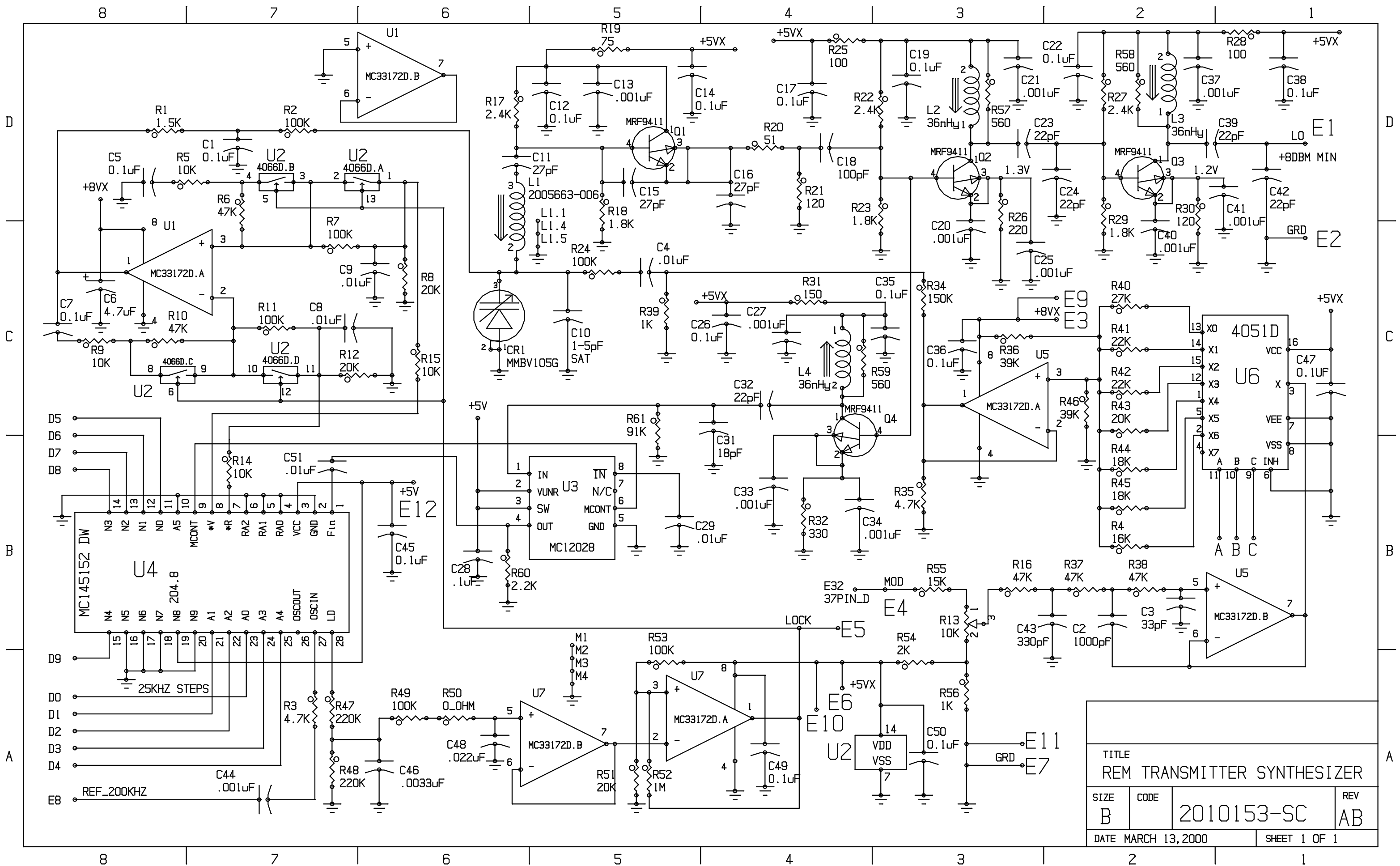


TITLE			
REM XMTR POWER CONTROL			
SIZE	CODE	2010176-SC	REV
B			AB
DATE MARCH 13, 2000			SHEET 1 OF 1





SERCEL			
TITLE REM T/R SWITCH REFERENCE			
SIZE C	CODE	2010018-SC	REV AC
DATE 3-22-00	SHEET 1 OF 1		



TITLE			
REM TRANSMITTER SYNTHESIZER			
SIZE	CODE	REV	
B		2010153-SC	
DATE		SHEET	
MARCH 13, 2000		1 OF 1	