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REV	DESCRIPTION	DATE	APPROVED
A	Initial schematic for layout	03/01/2010	RRP

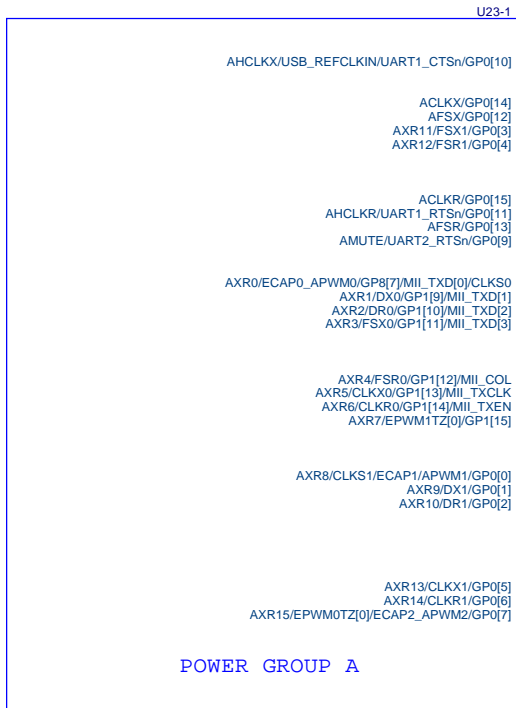
I2C ADDRESS MAP

BASE(HEX)	BASE BINARY	I2C ADDRESS TABLE	SHEET
0X50	101 0000W	I2C EEPROM	
0X48	100 1000W	TPS65070 PMIC	
0X18	001 1000W	TLV320AIC3106	
0X21	010 0001W	TCA6416 - U34 - User Switches	
POWER MEASUREMENT - NOT ON AM1810 CPU BUS			
	100 0000W	INA219 - 5V INPUT	
	100 0001W	INA219 - PMIC 3V3	
	100 0010W	INA219 - PMIC I/O VOLTAGE (1V8/3V3)	
	100 0011W	INA219 - PMIC 1V2	
	100 0100W	INA219 - PMIC 1V2 LDO	
	100 0101W	INA219 - PMIC 1V8 LDO	
	100 0110W	INA219 - RTC 1V2 LDO EXTERNAL	
UI BOARD ADDRESSES FOR REFERENCE			
	010 1010W	ADV7343	
	101 1101W	TVP5147 COMPOSITE VIDEO (SW SEL)	
	101 1100W	TVP5147 S-VIDEO (SW SEL)	
	SPECIFIC CHIP	CAMERA IMAGER (SW SEL - NEG BIT OF TVP5147'S SEL)	
	010 0000W	PCF8575 IO EXPANDER	
	110 0101W	CDCE913 CLOCK CHIP	

REVISION STATUS OF SHEETS										
REV	A	A	A	A	A	A	A	A	A	A
SH	31	32	33	34	35	36	37	38		
REV	A	A	A	A	A	A	A	A	A	A
SH	21	22	23	24	25	26	27	28	29	30
REV	A	A	A	A	A	A	A	A	A	A
SH	11	12	13	14	15	16	17	18	19	20
REV	B	B	B	B	B	A	A	A	A	A
SH	1	2	3	4	5	6	7	8	9	10

DWN	R.R.P.	03/01/2010	DATE
CHK	T.W.K.	03/01/2010	DATE
ENGR	R.R.P.	03/01/2010	DATE
ENGR-MGR	R.R.P.	03/01/2010	DATE
QA	C.M.D.	03/01/2010	DATE
MFG	R.R.P.	03/01/2010	DATE
RLSE	R.R.P.	03/01/2010	DATE

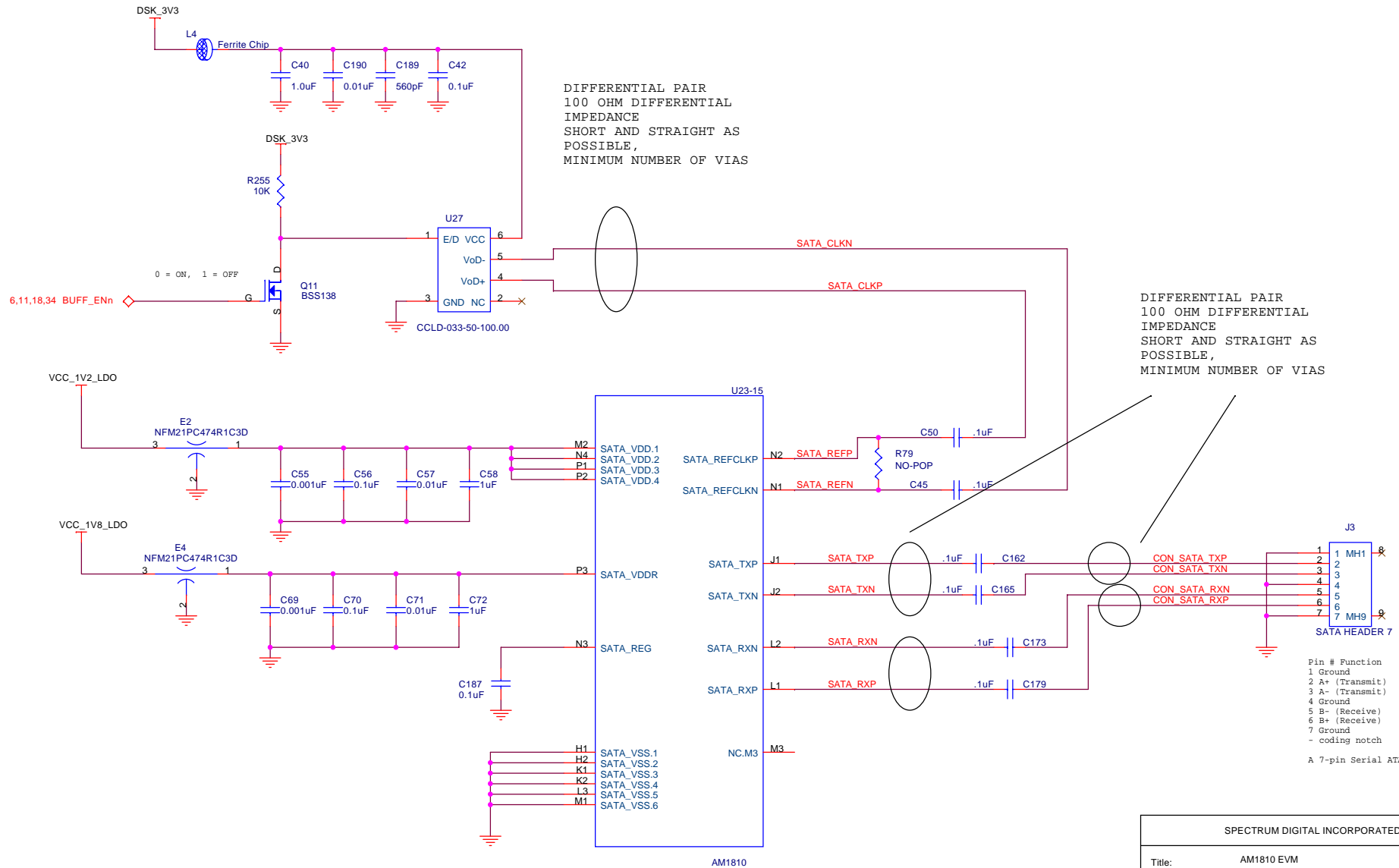
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Page Contents: TITLE PAGE			
Size: B	DWG NO	513302-0031	Revision: B
Date:	Monday, December 20, 2010	Sheet 1 of	38



POWER GROUP A

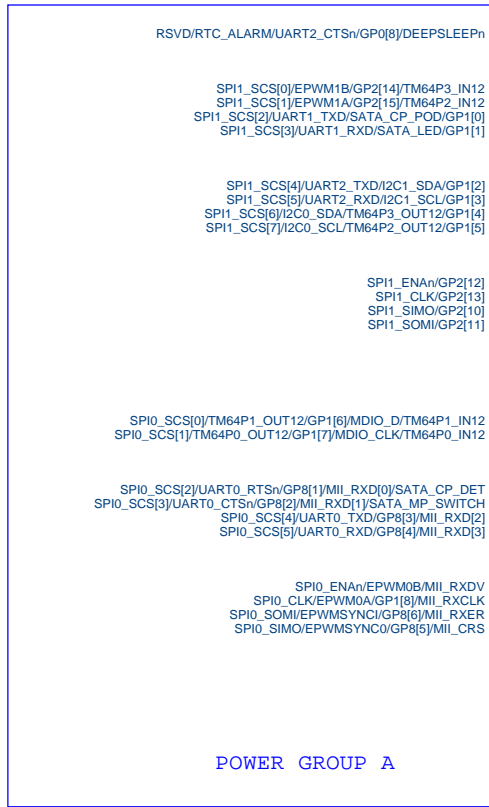
AM1810

SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: McASP/MII Ethernet MAC			
Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
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Page Contents: SATA INTERFACE			
Size: B	DWG NO	513302-0031	Revision: A
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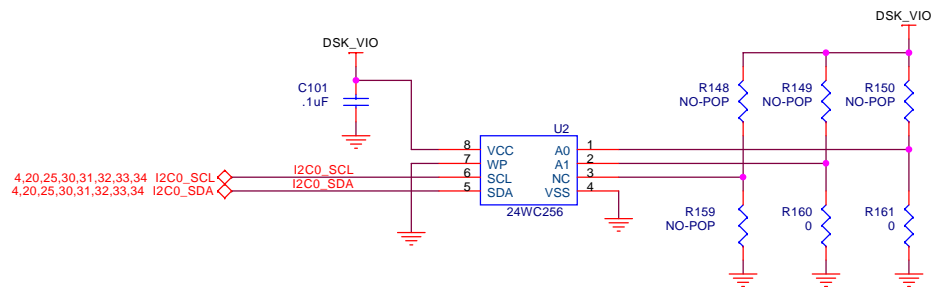
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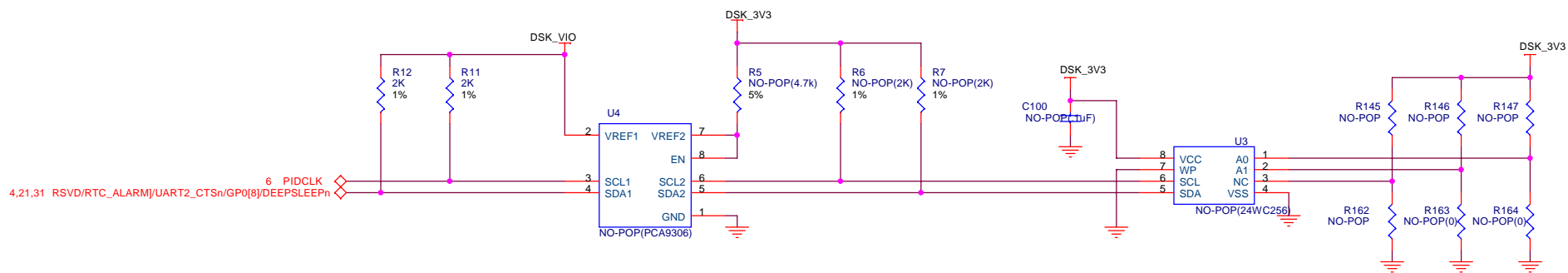
AM1810



SPECTRUM DIGITAL INCORPORATED			
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Size: B	DWG NO	513302-0031	Revision: A
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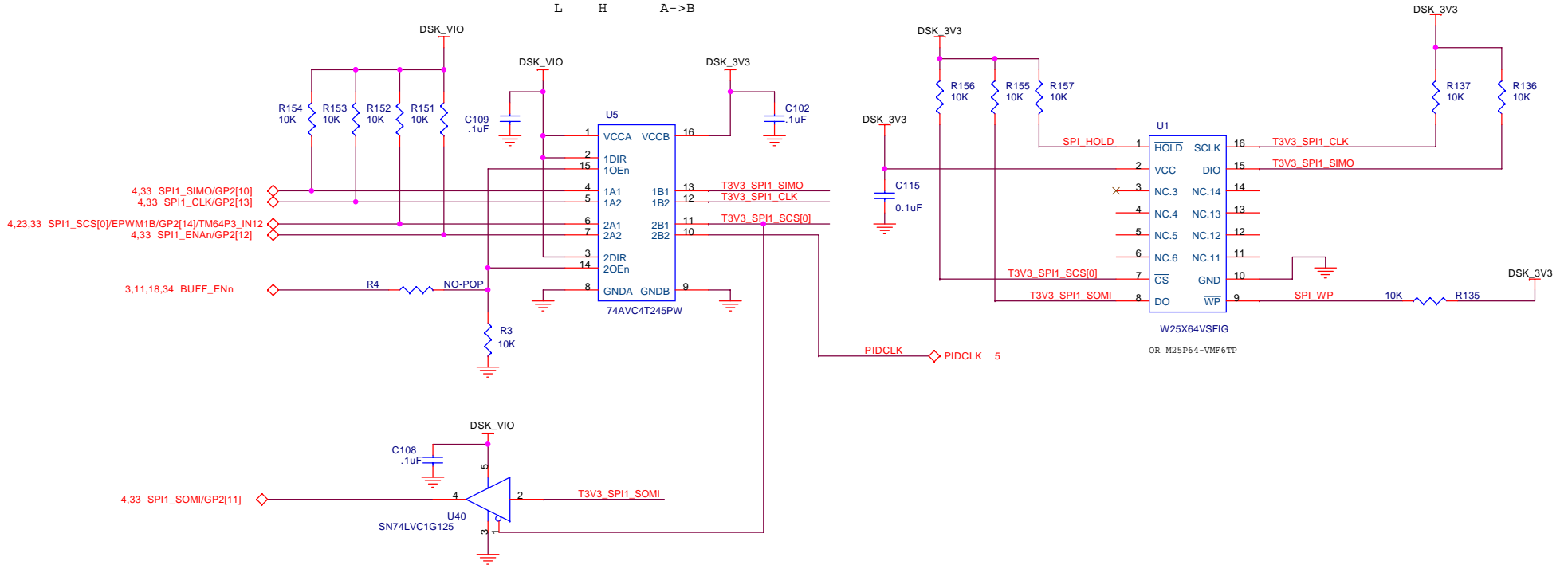
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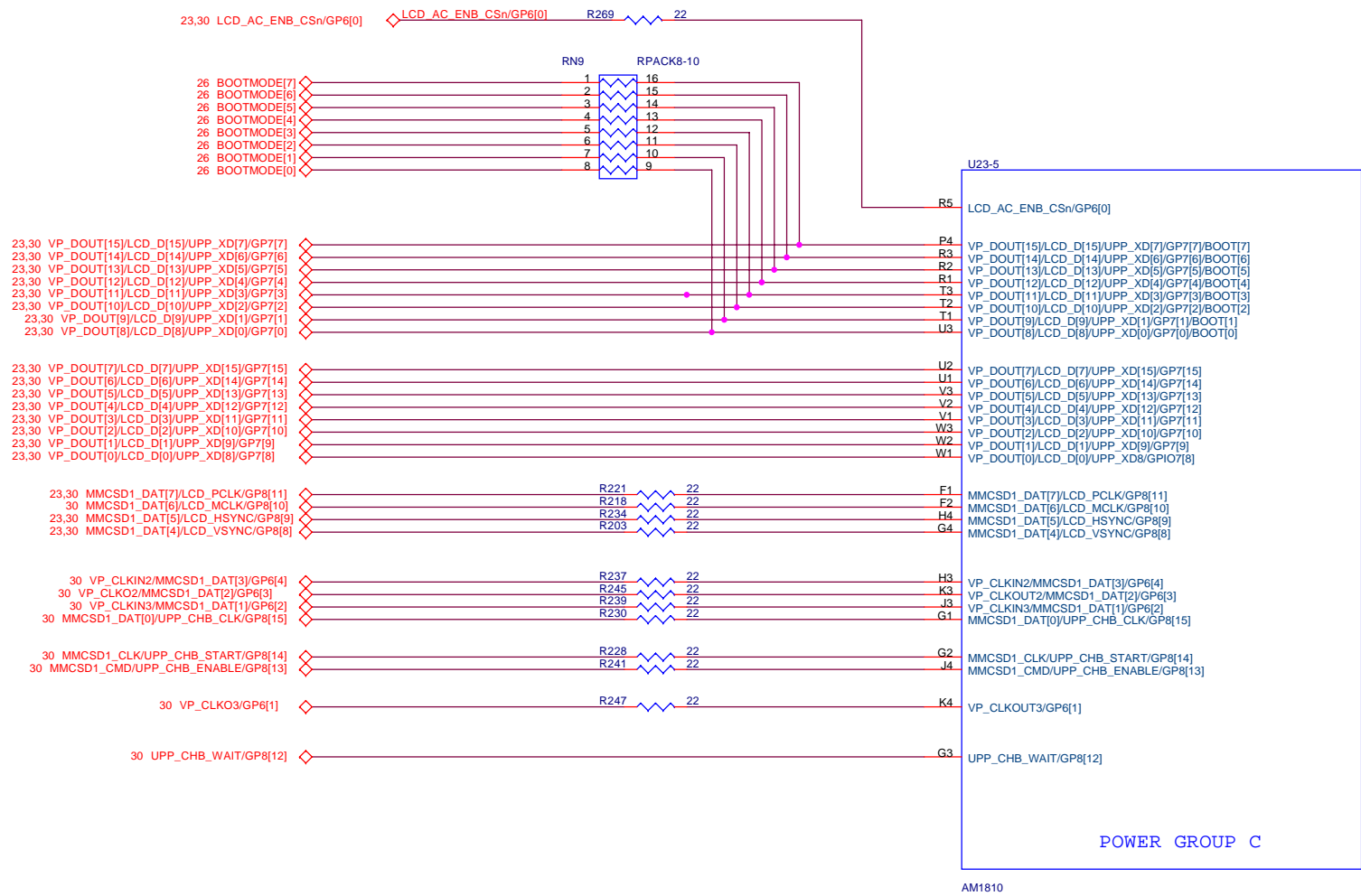
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Page Contents: I2C EEPROM / PARAMETER I2C EEPROM			
Size: B	DWG NO	513302-0031	Revision: A
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LEVEL TRANSLATORS

OE	DIR	FUNCTION
L	L	B->A
L	H	A->B



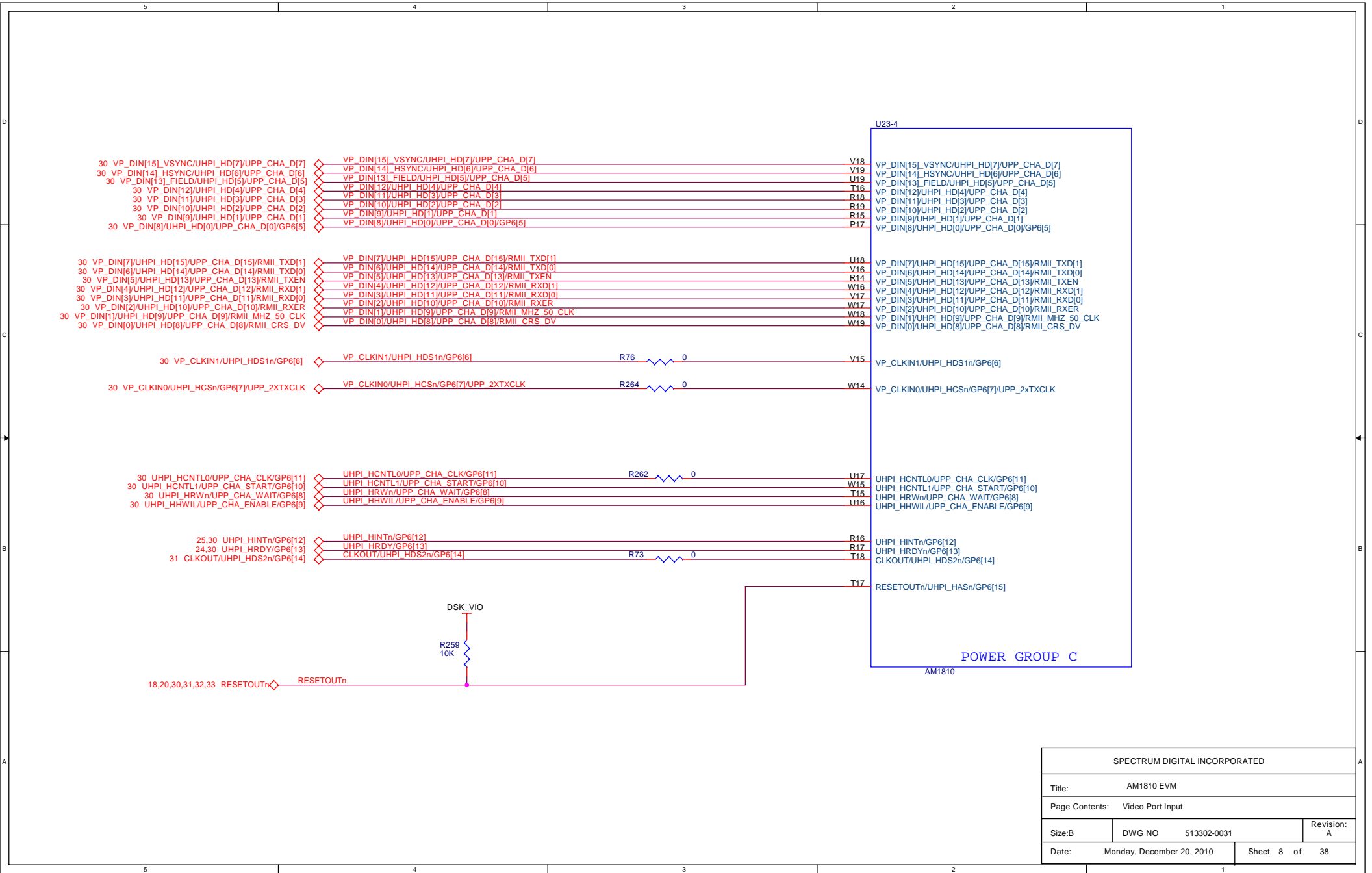
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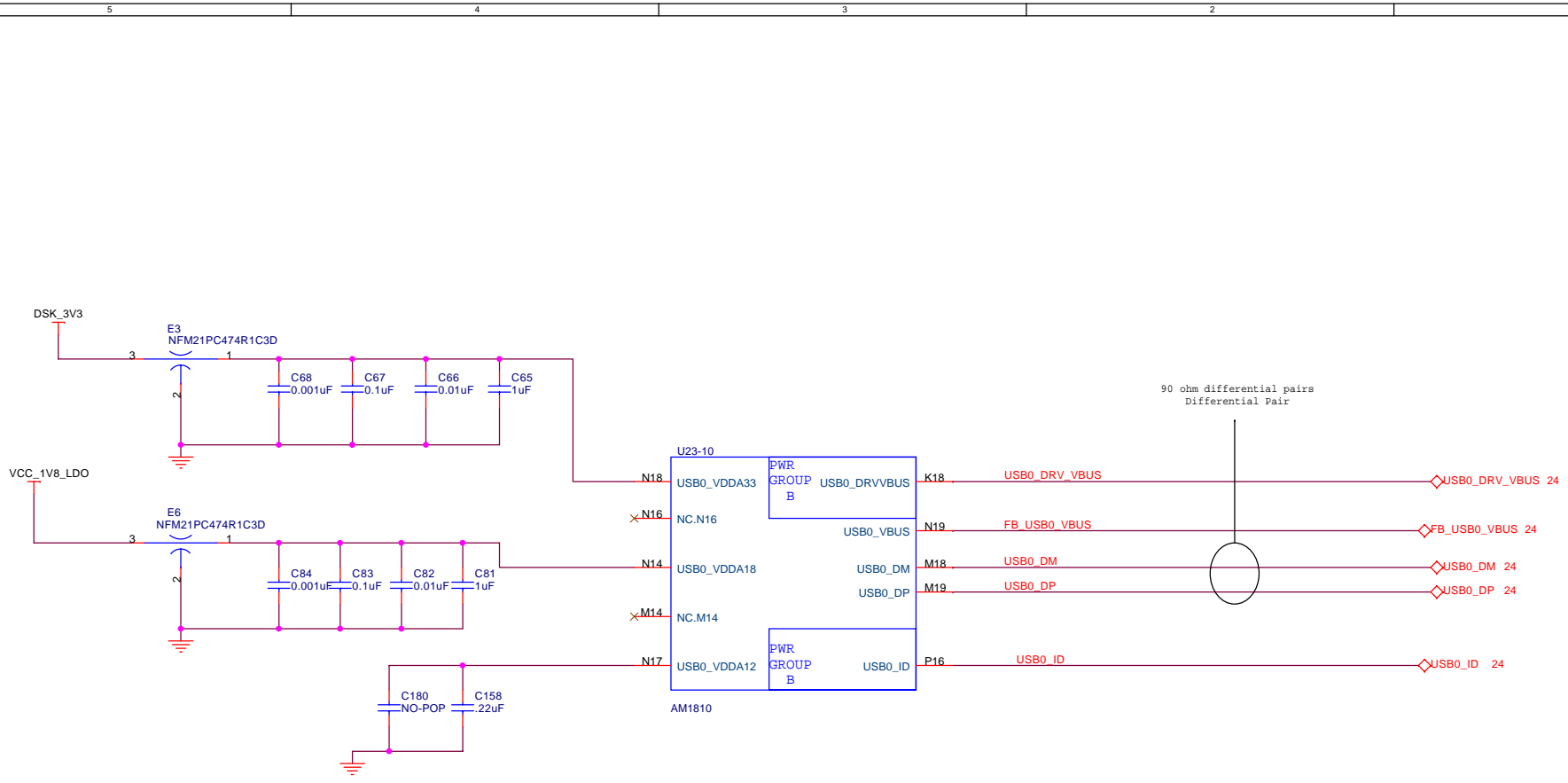
POWER GROUP C

AM1810

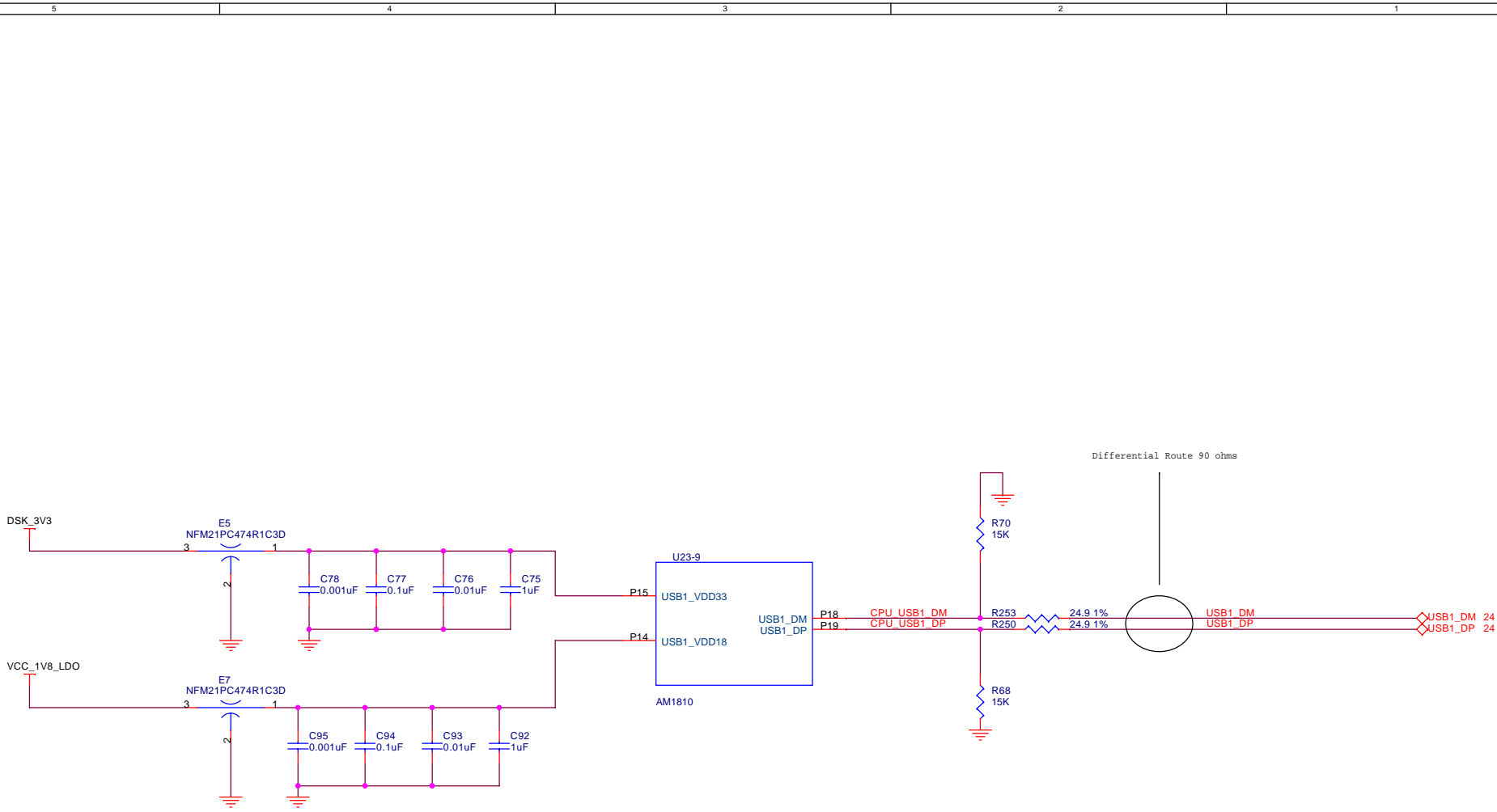
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Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 7 of	38



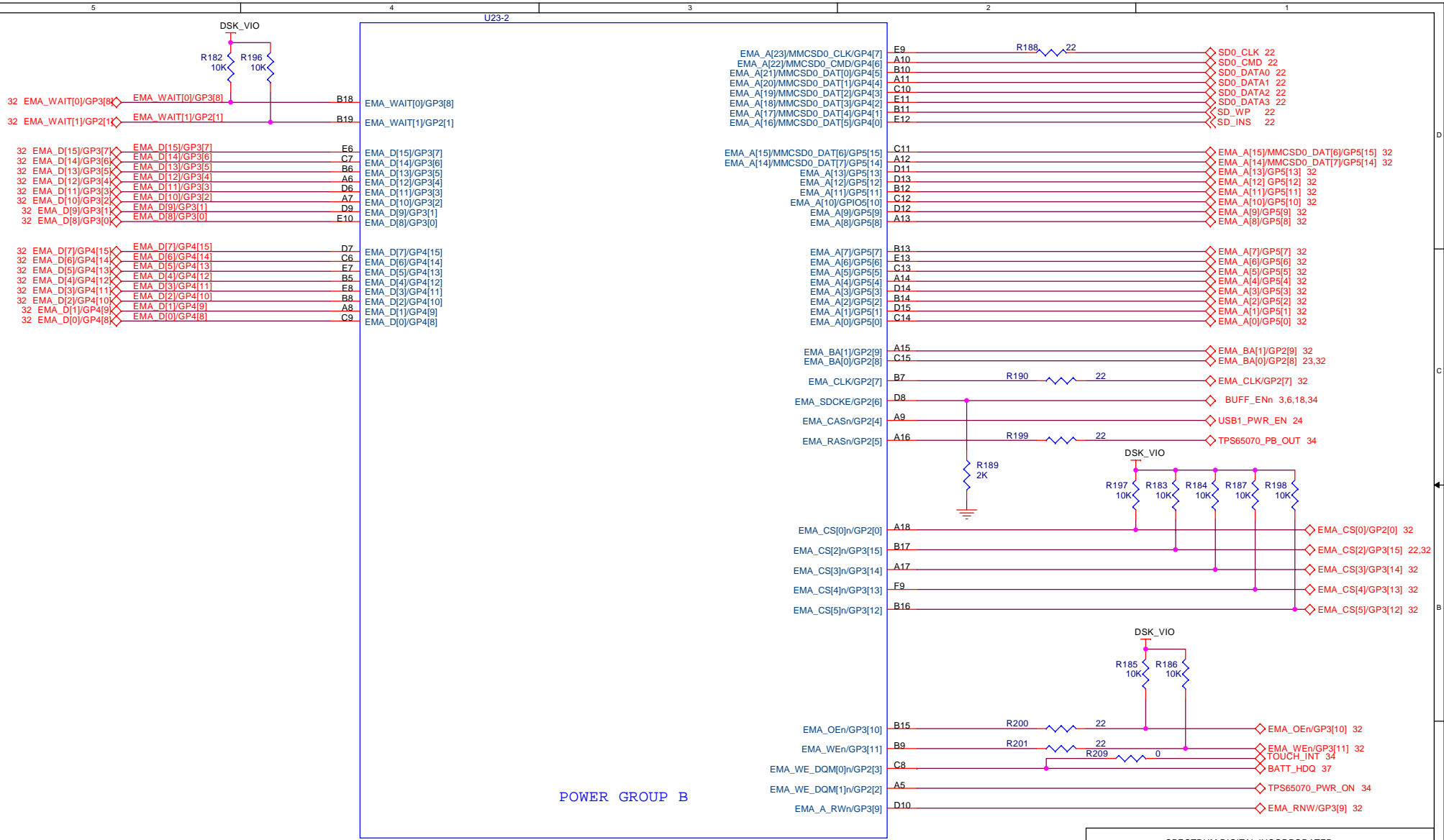
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Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
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Page Contents: USB 2.0 INTERFACE			
Size: B	DWG NO	513302-0031	Revision: A
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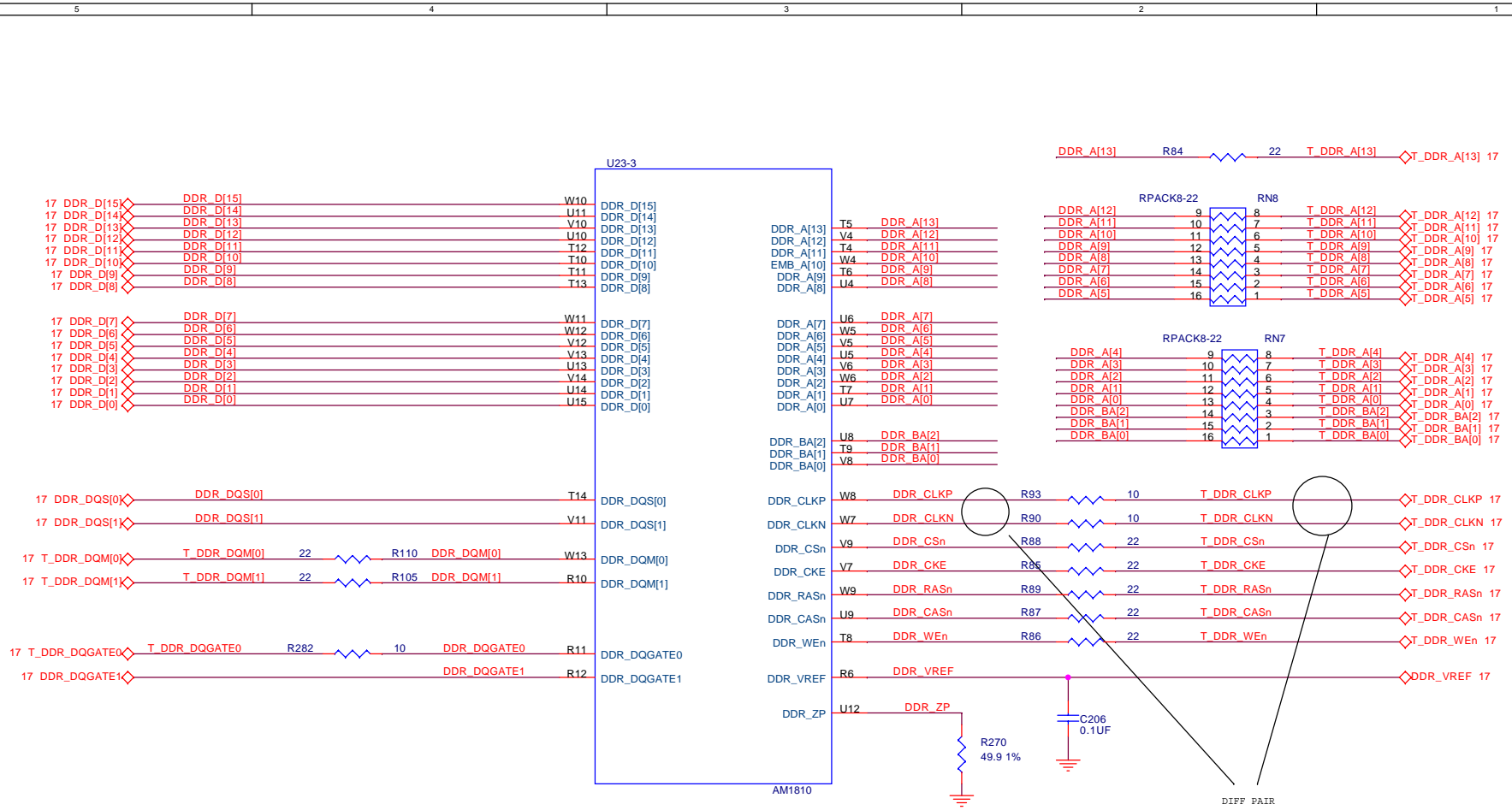
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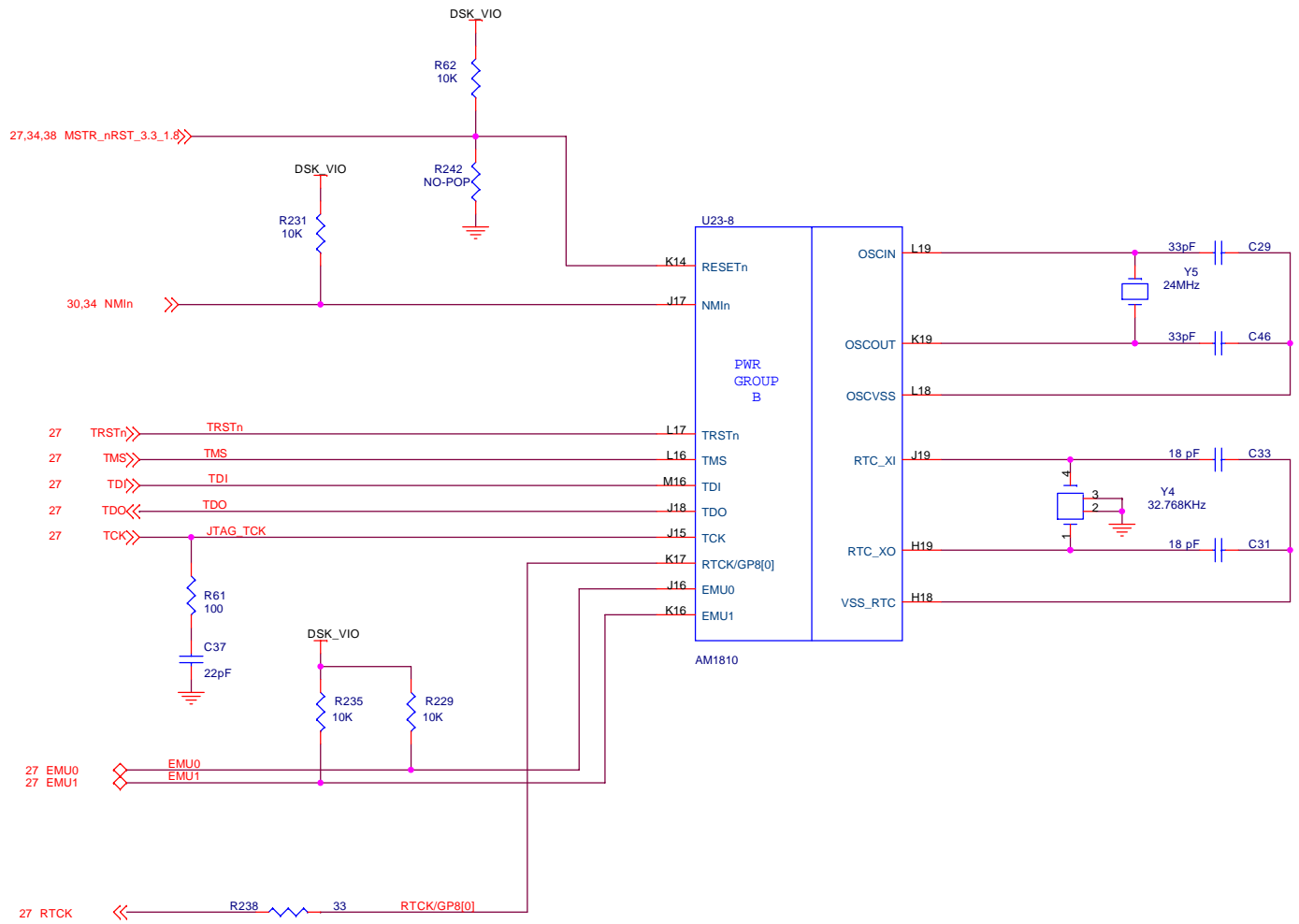
POWER GROUP B

AM1810

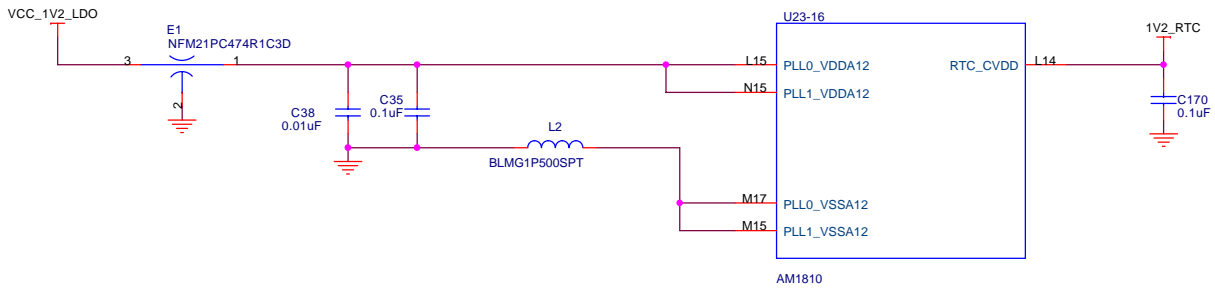
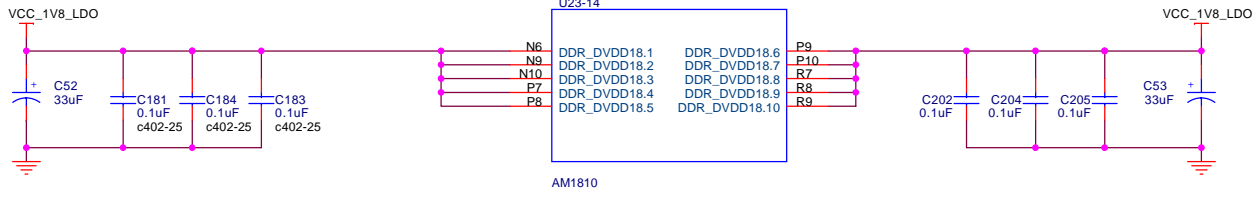
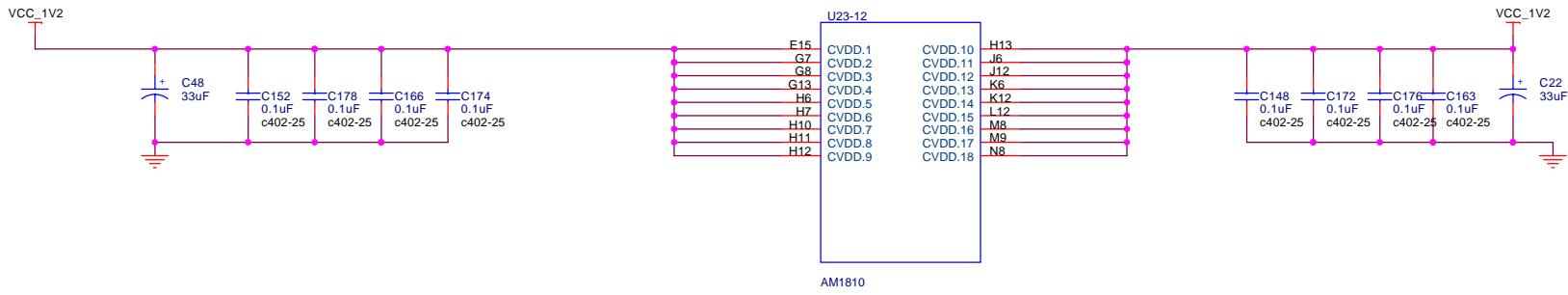
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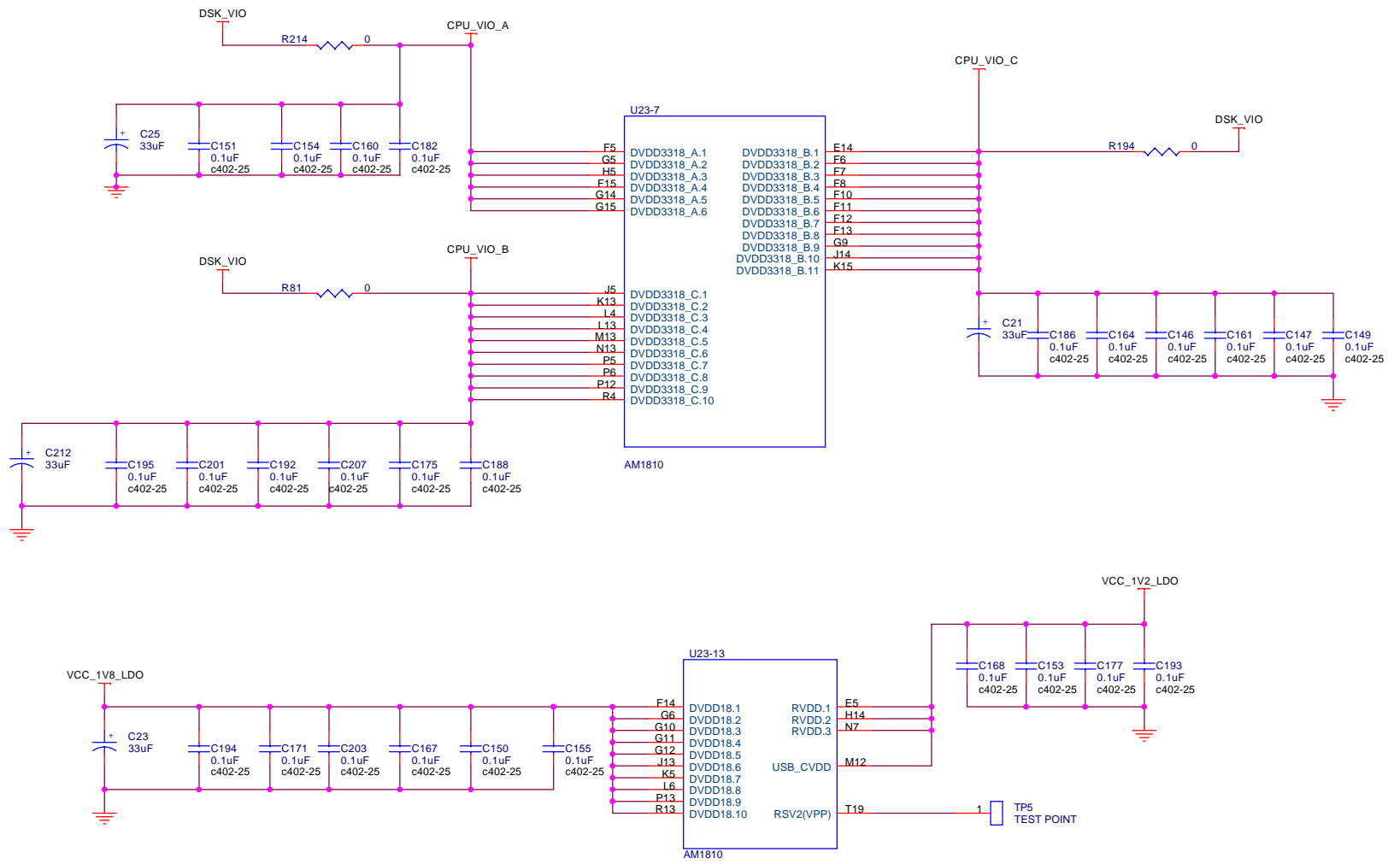
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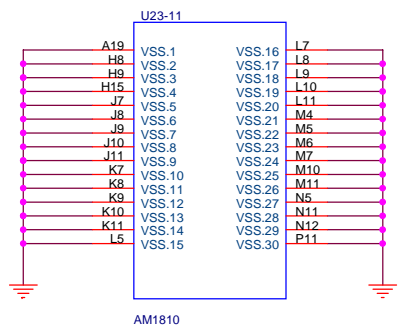
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Size: B	DWG NO	513302-0031	Revision: A
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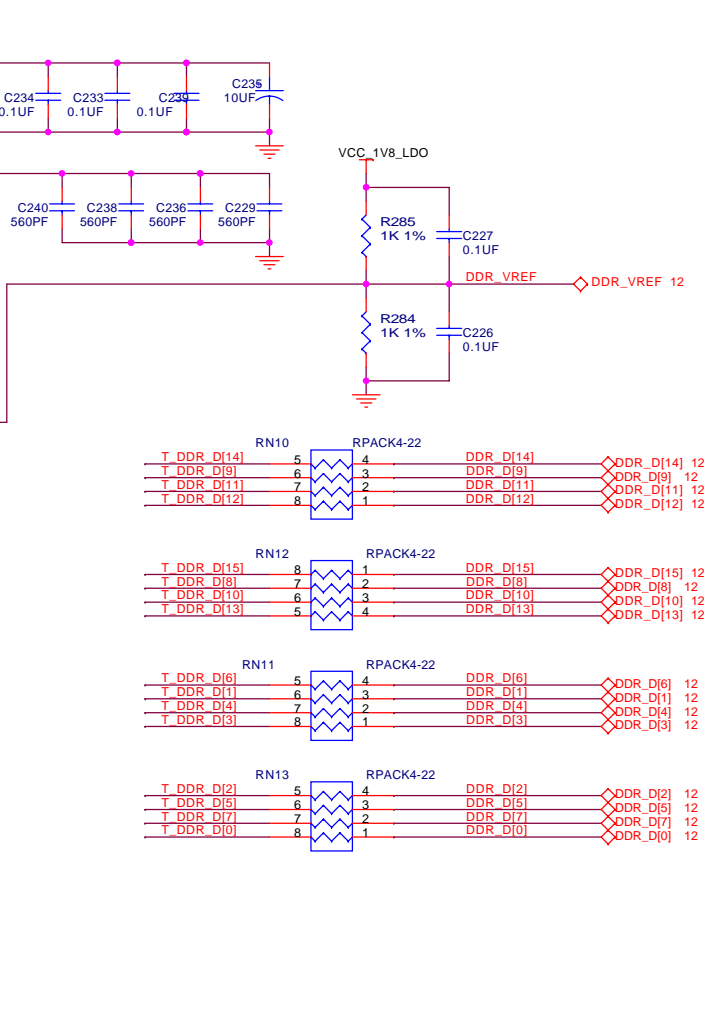
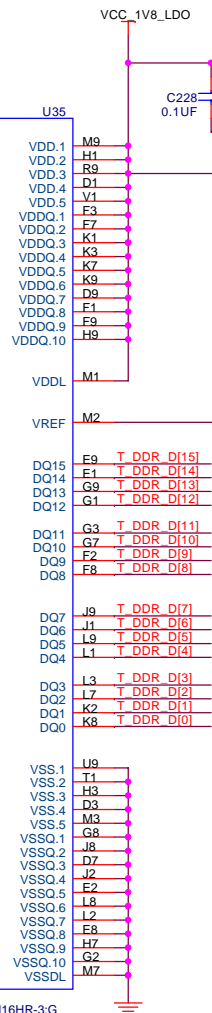
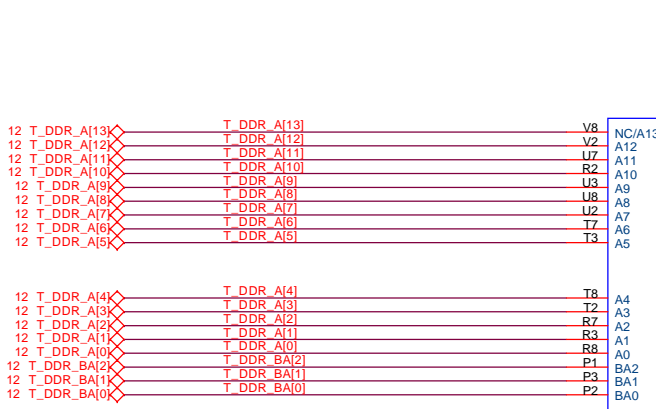
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Size: B	DWG NO	513302-0031	Revision: C
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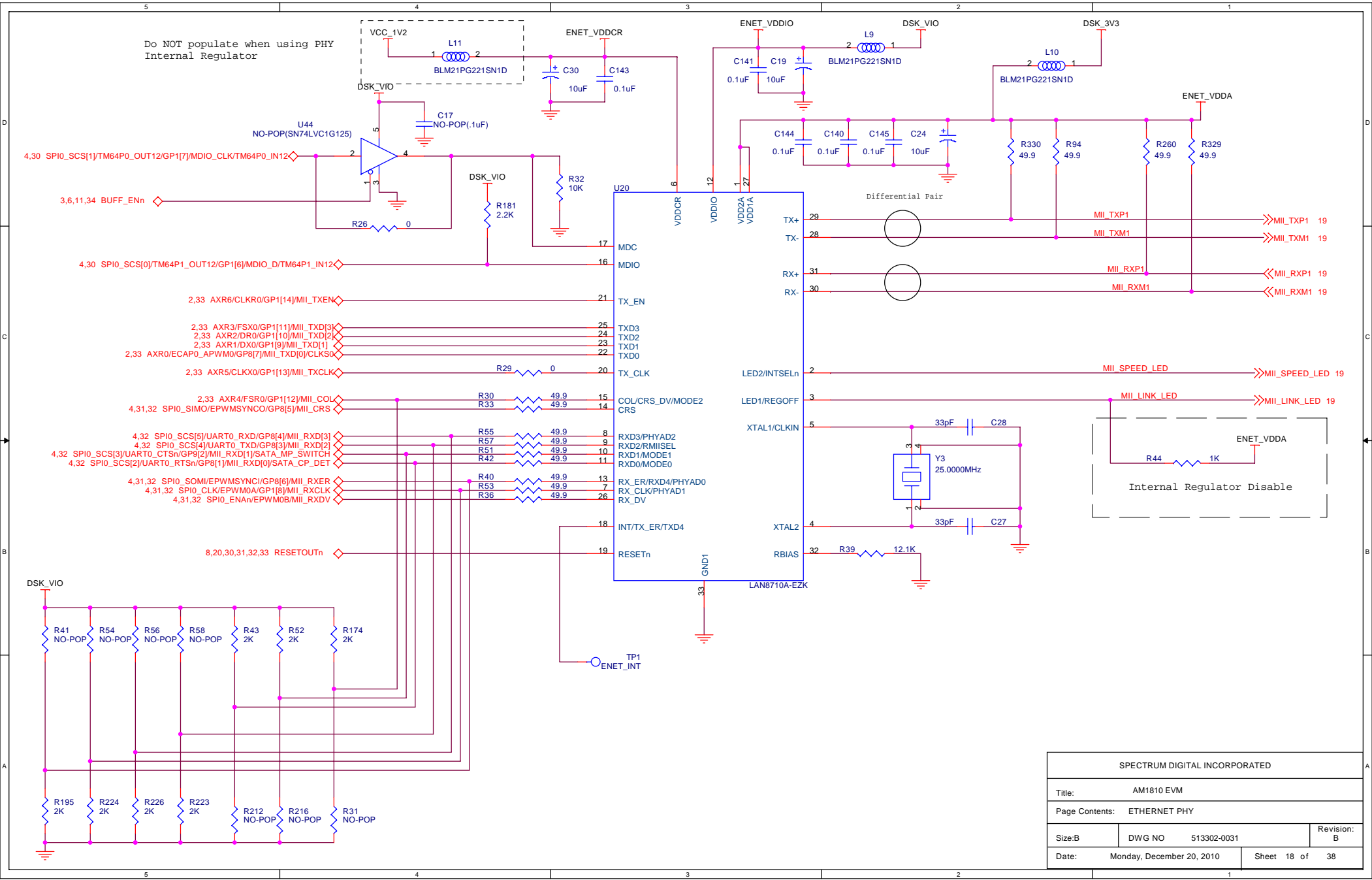
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AM1810 GROUND PINS			
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: DDR2 - EMIF B			
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: ETHERNET PHY			
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5

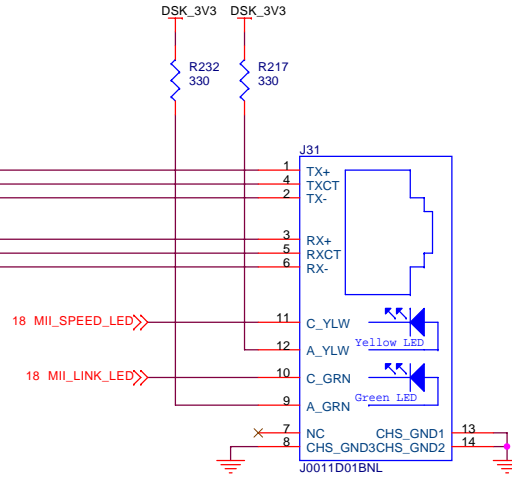
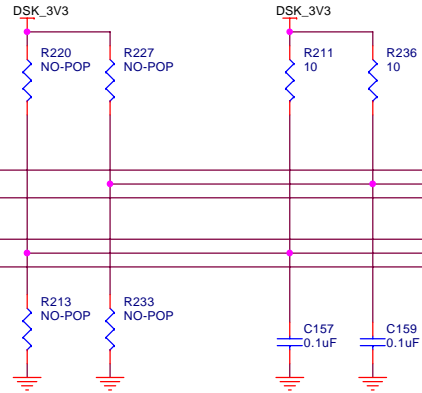
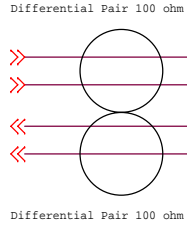
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3

2

1

18_MIL_TXP1
18_MIL_TXM1
18_MIL_RXP1
18_MIL_RXM1



SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: ETHERNET MII CONNECTOR			
Size: B	DWG NO: 513302-0031	Revision: B	
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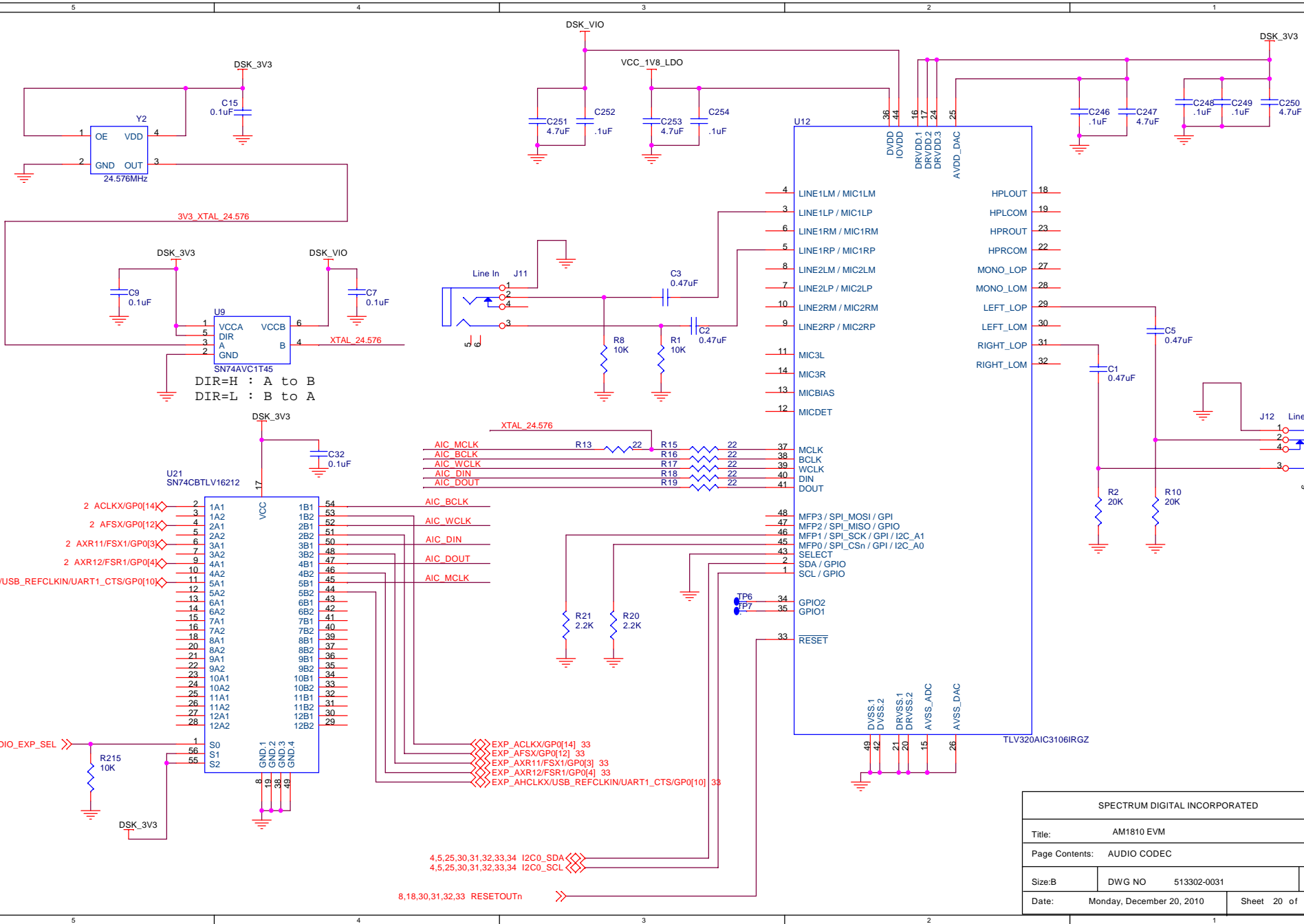
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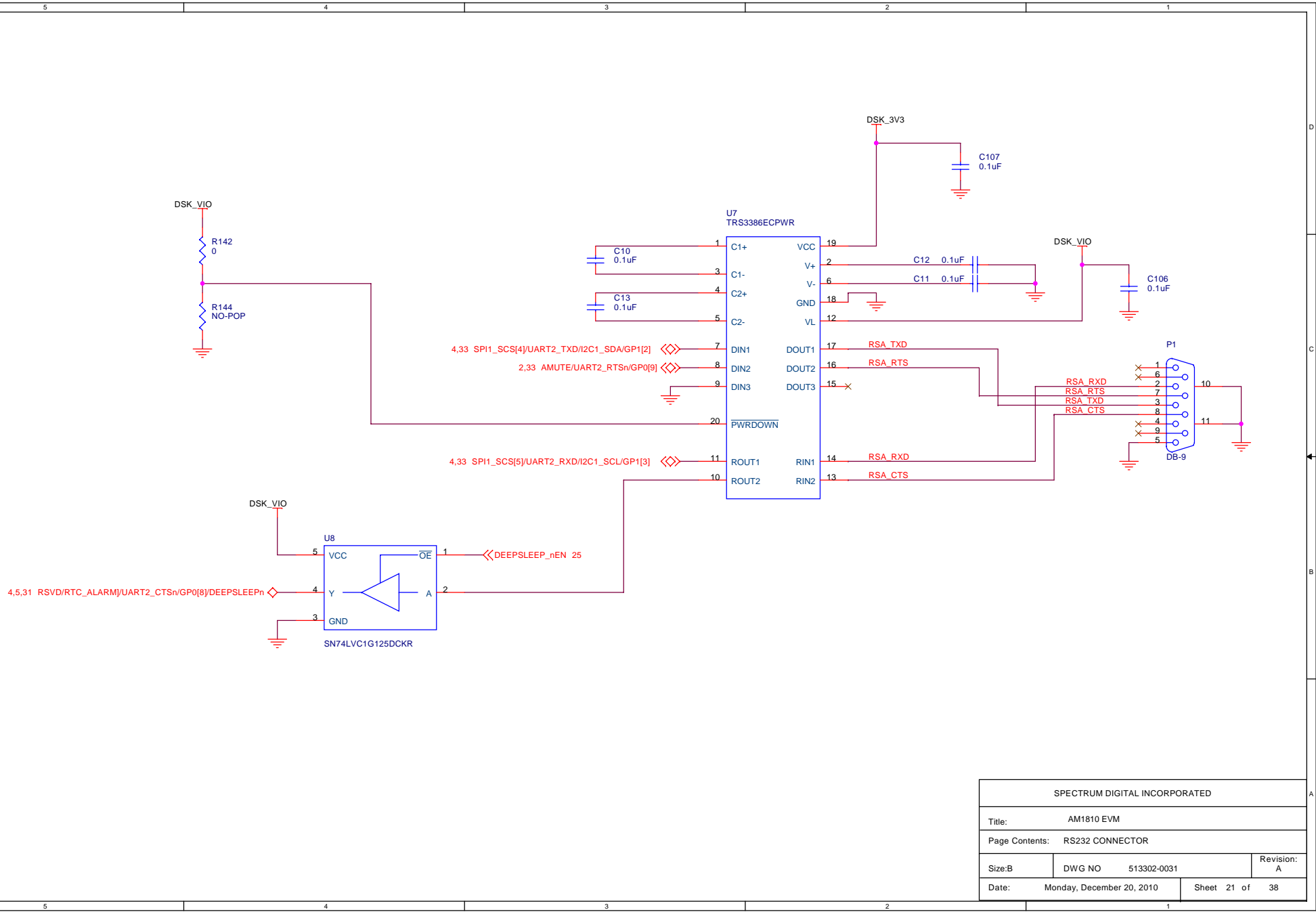
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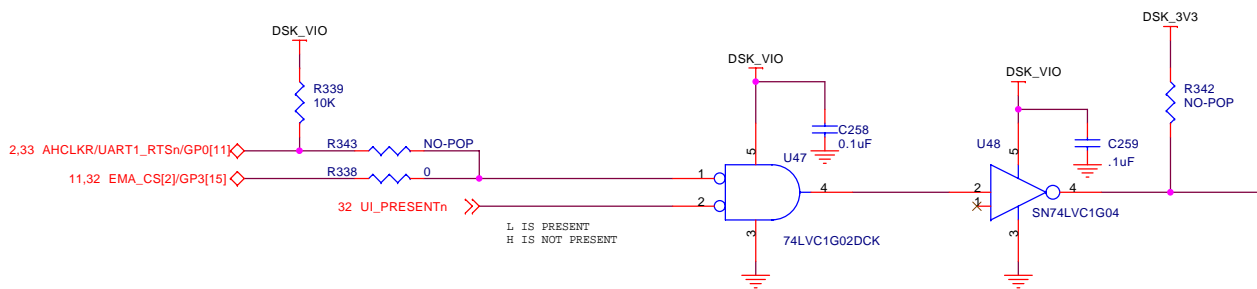
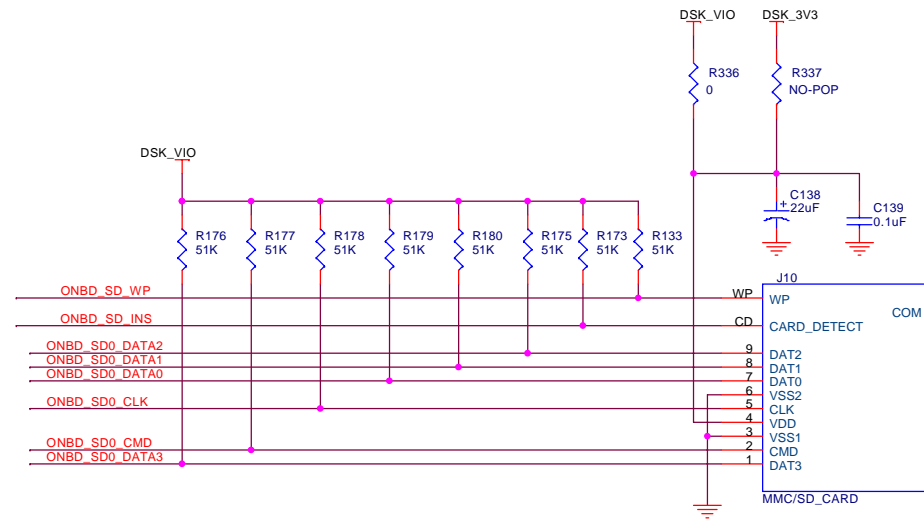
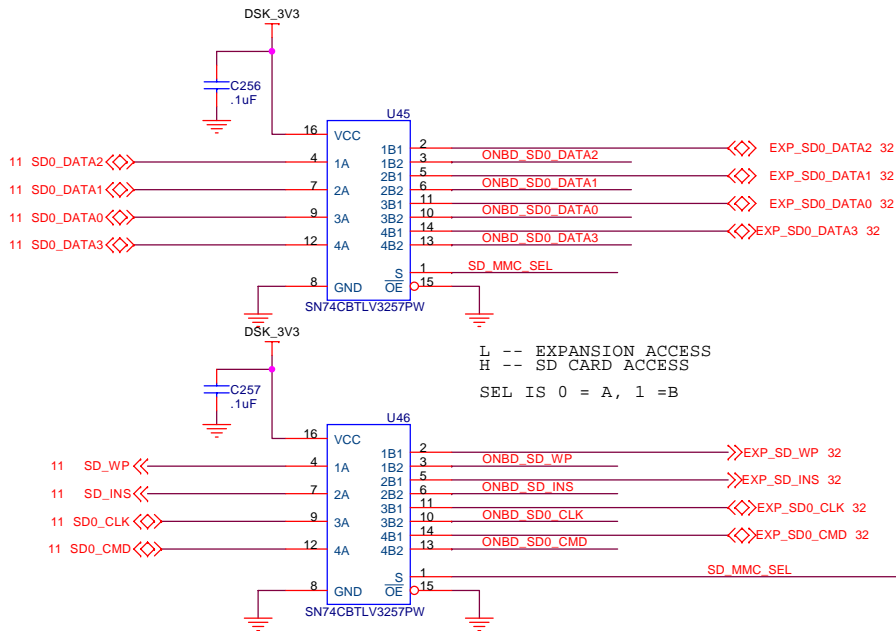
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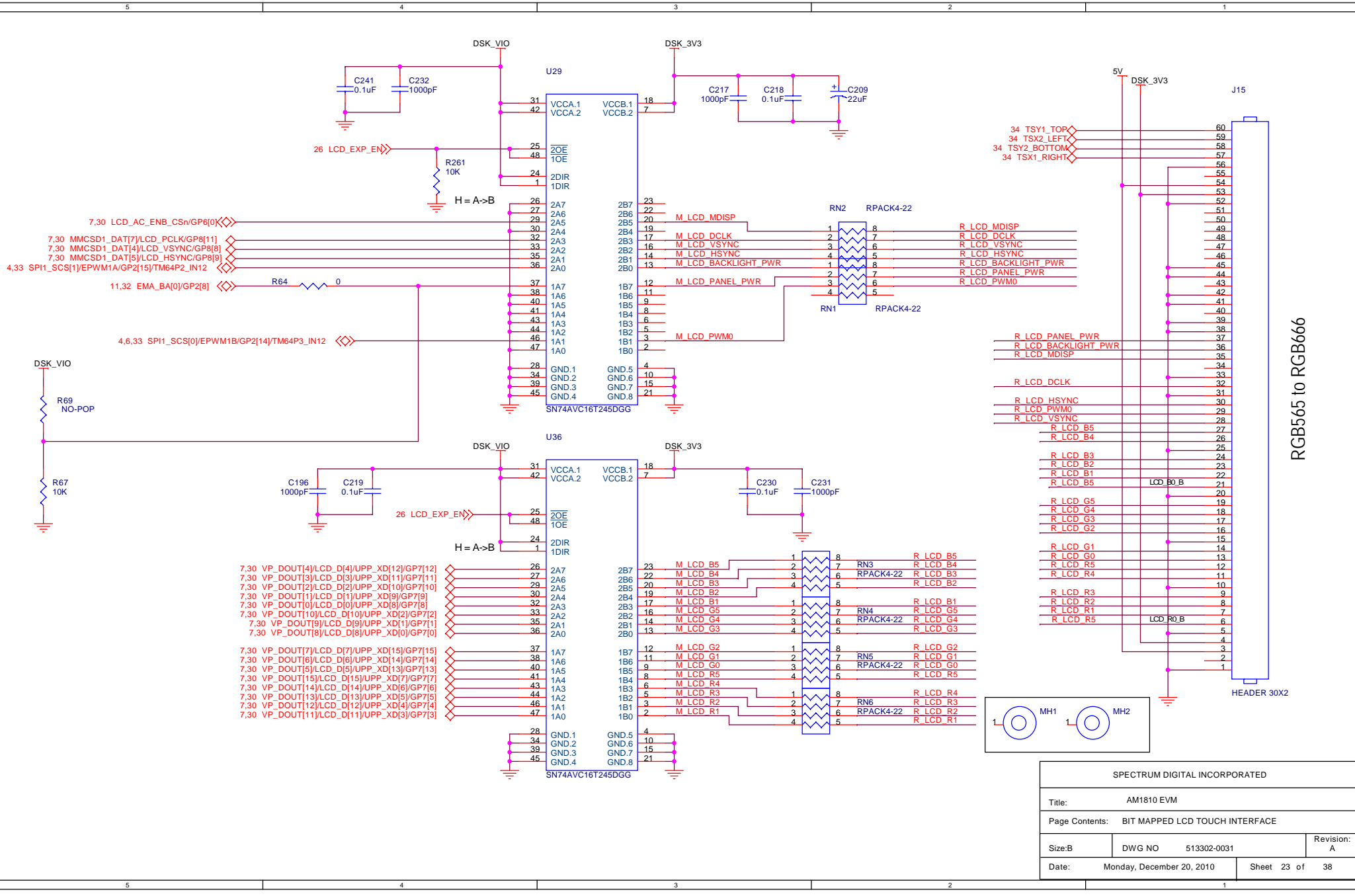
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Title: AM1810 EVM			
Page Contents: AUDIO CODEC			
Size: B	DWG NO	513302-0031	Revision: A
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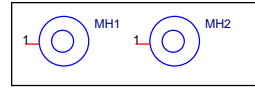
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Size: B	DWG NO	513302-0031	Revision: A
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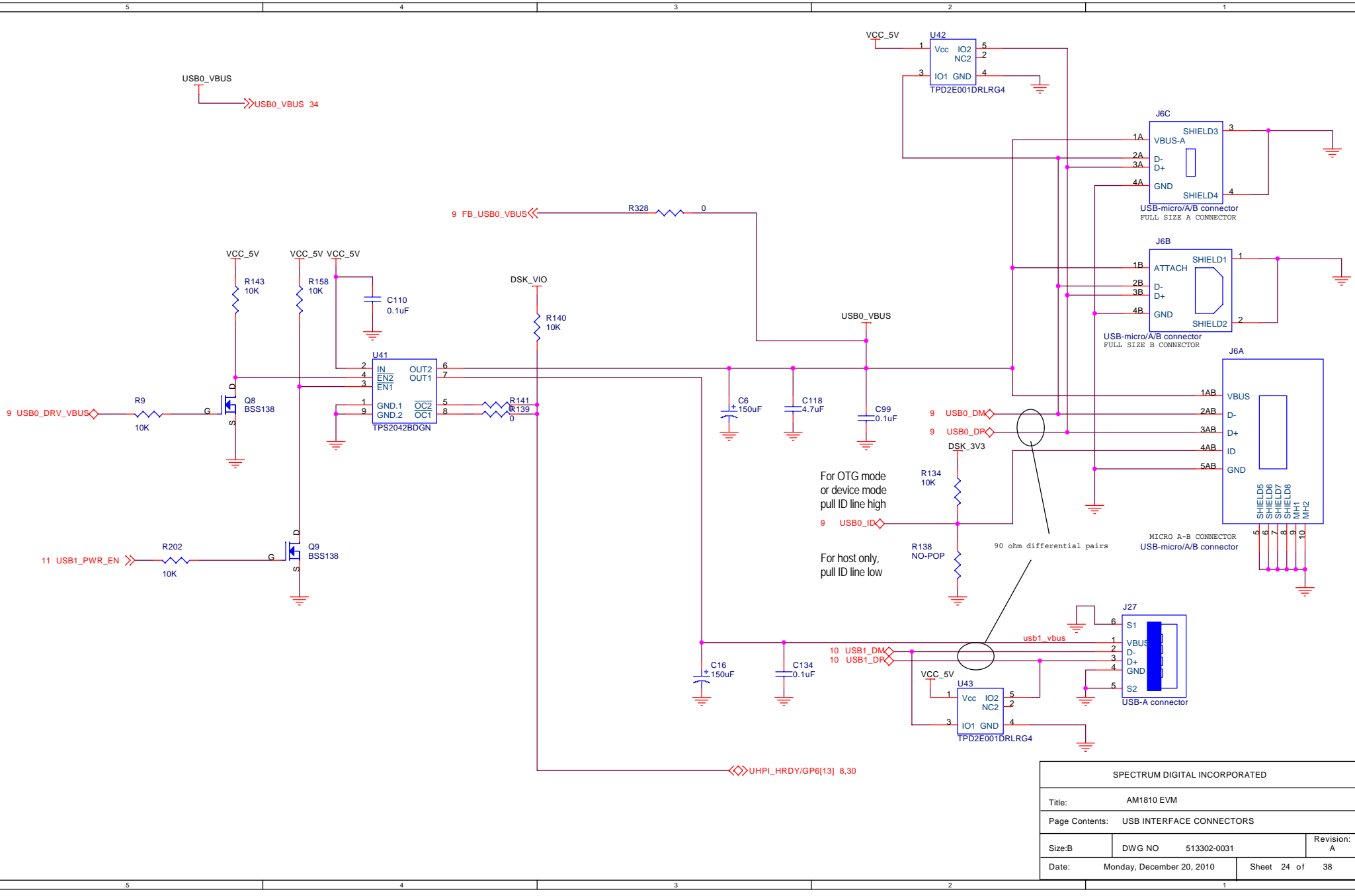
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Title: AM1810 EVM			
Page Contents: SD/MMC CONNECTOR			
Size: B	DWG NO: 513302-0031	Revision: A	
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RGB565 to RGB666



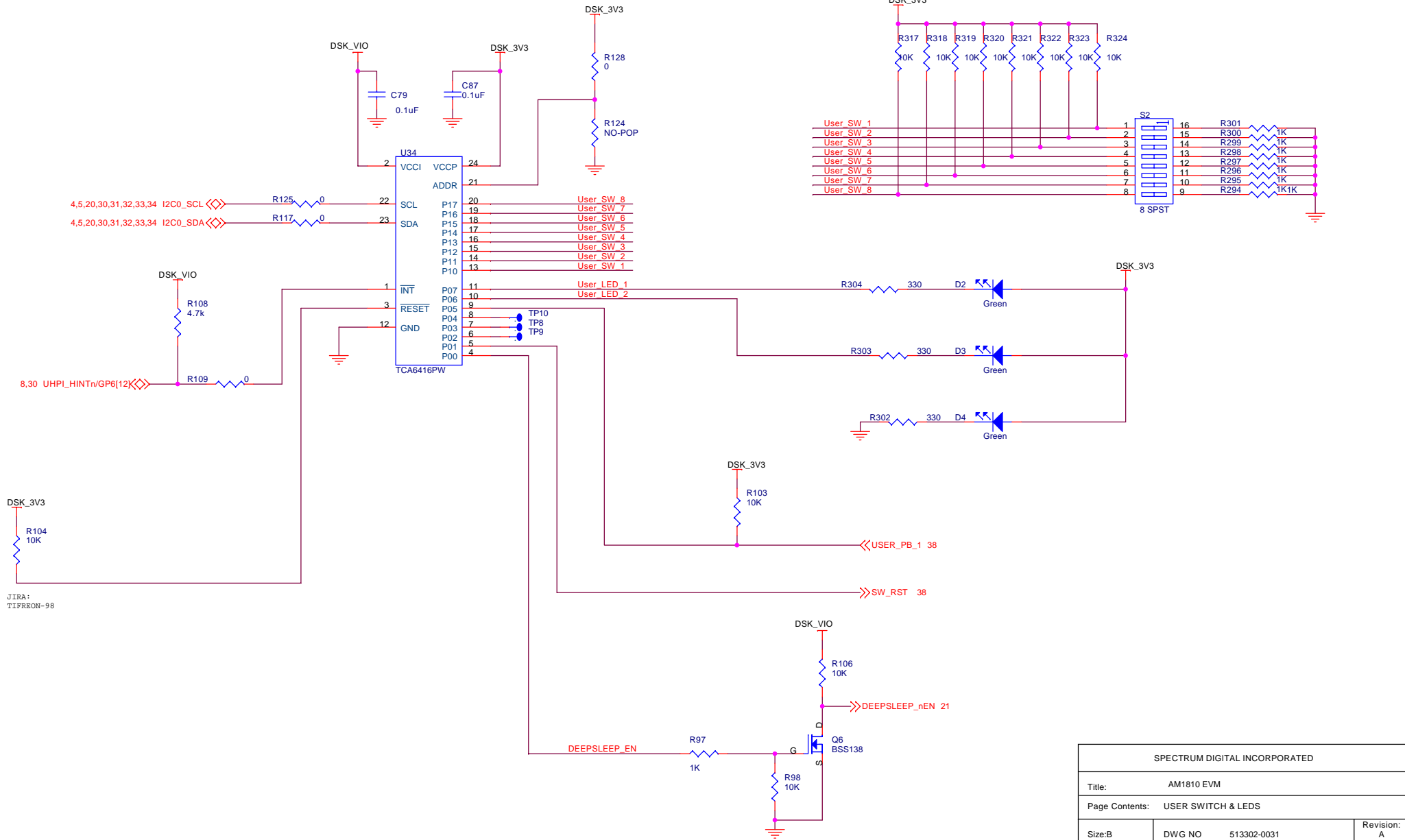
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Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: USB INTERFACE CONNECTORS			
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IO EXPANDER

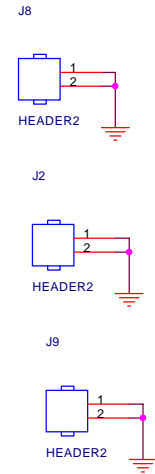
USER DIP SWITCHES



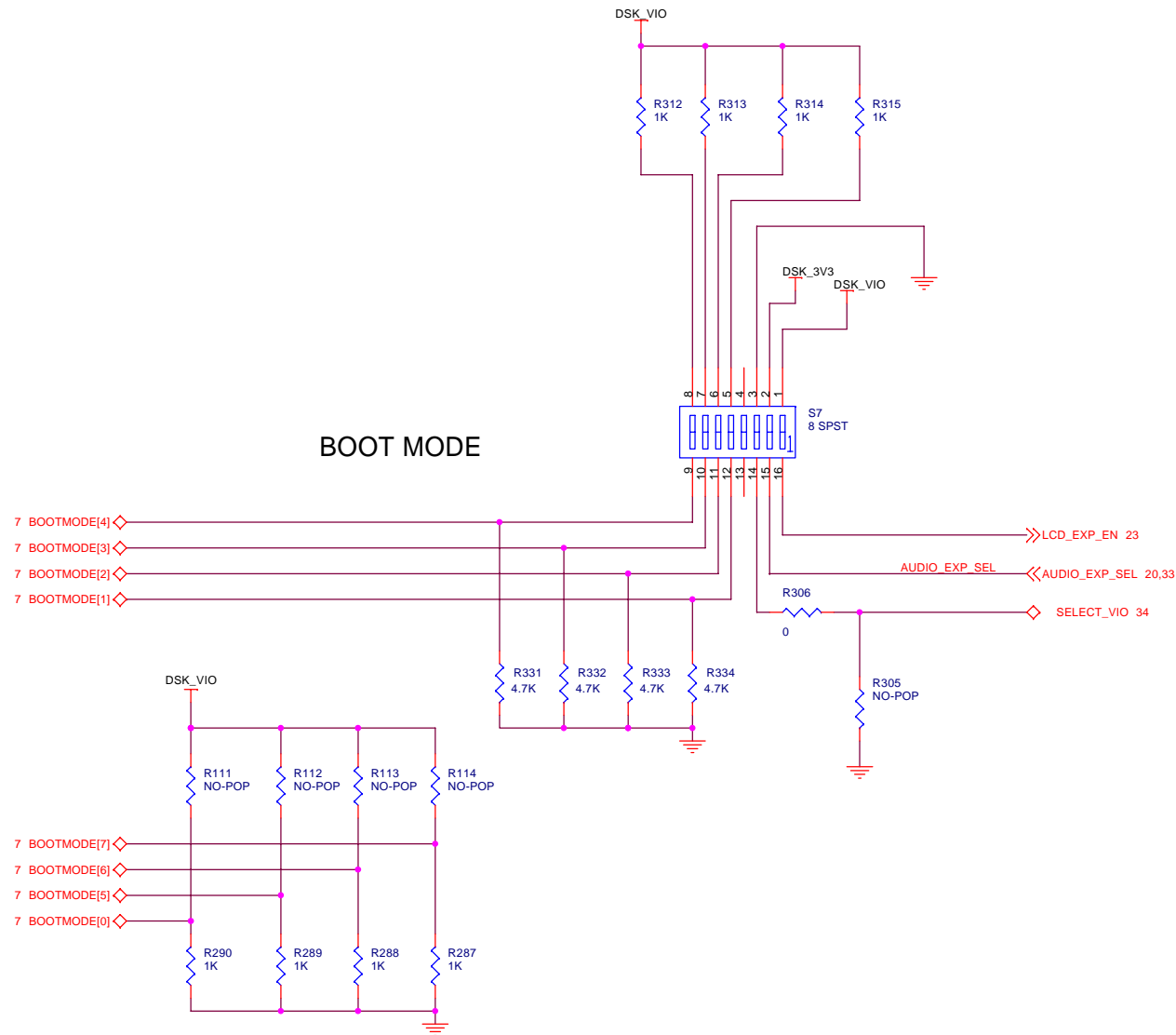
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TIFREON-98

SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: USER SWITCH & LEDS			
Size: B	DWG NO	513302-0031	Revision: A
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PROBE GND CONNECTOR

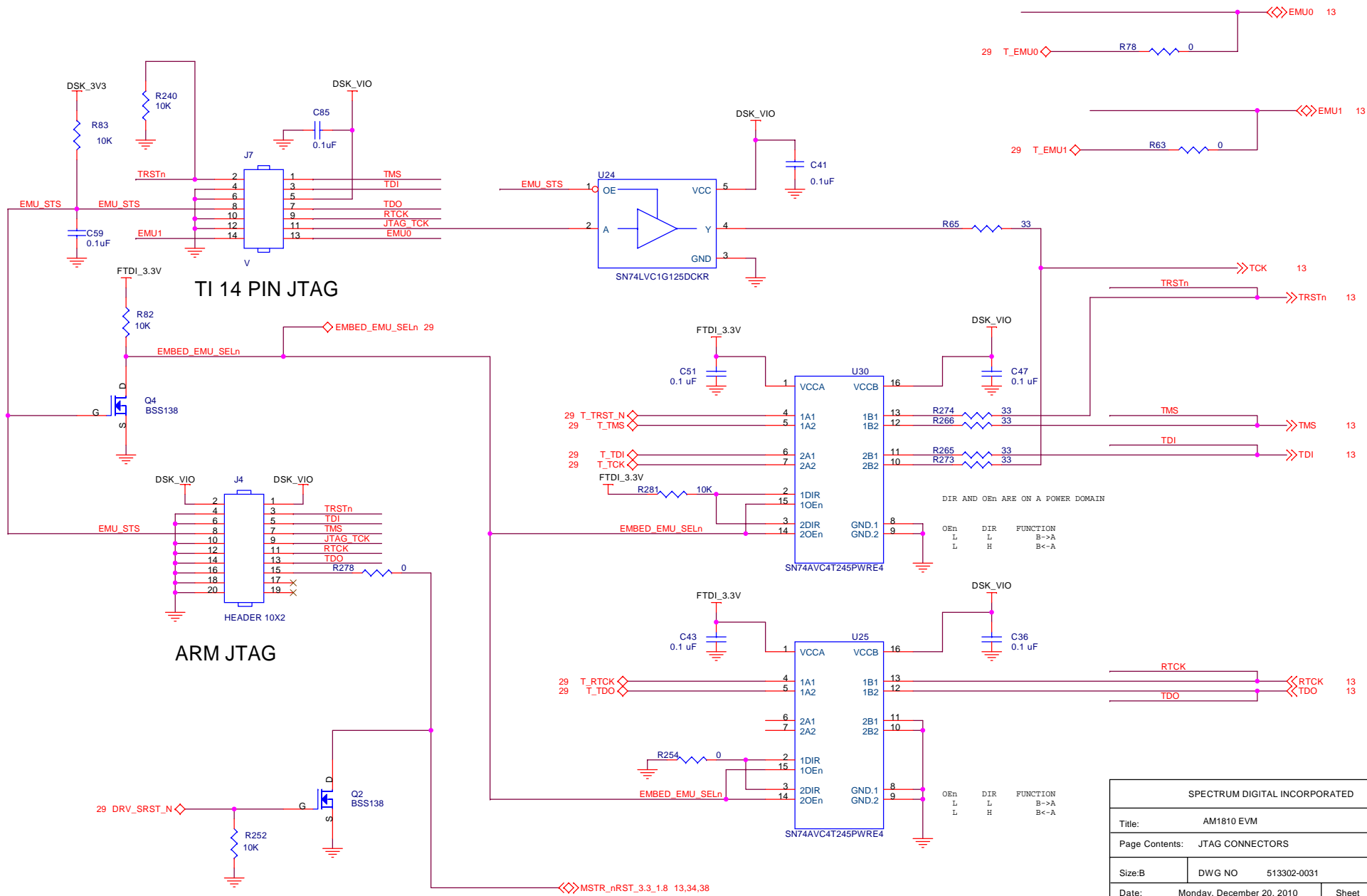


Distribute 2 pin headers around outside edges of the board

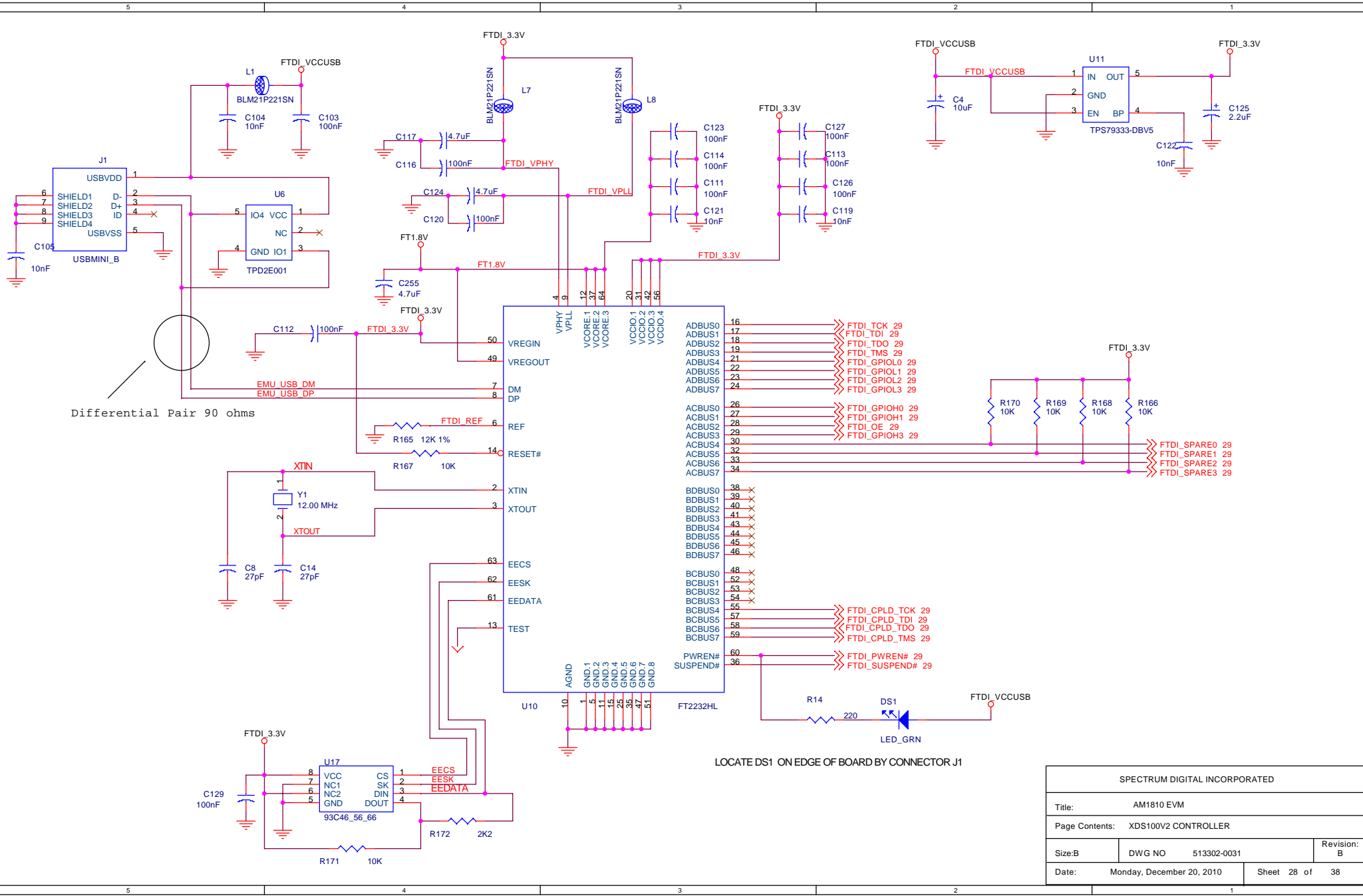


BOOT MODE

SPECTRUM DIGITAL INCORPORATED			
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Page Contents: BOOT SWITCH			
Size: B	DWG NO	513302-0031	Revision: A
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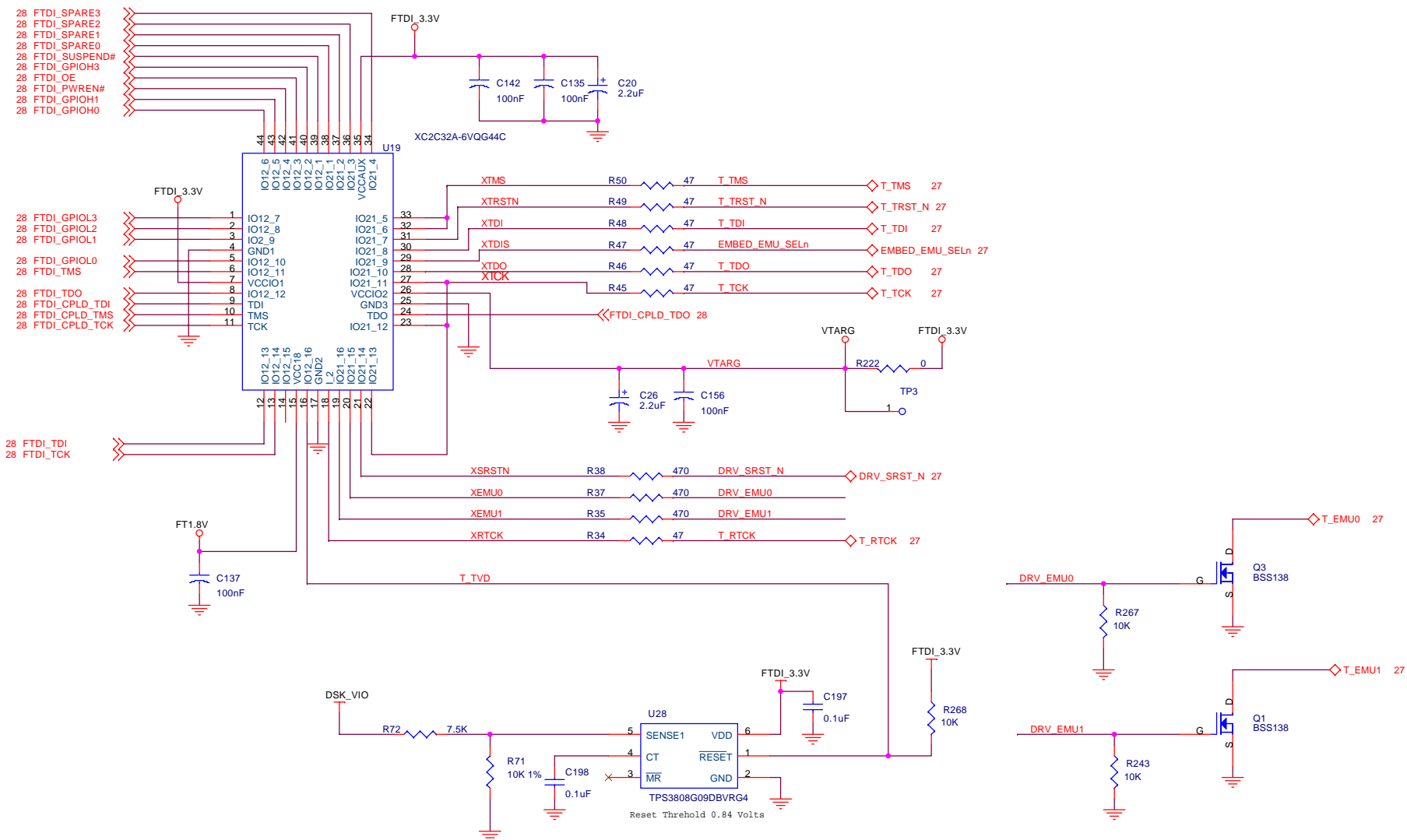
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Page Contents: JTAG CONNECTORS			
Size: B	DWG NO: 513302-0031	Revision: A	
Date: Monday, December 20, 2010	Sheet 27 of 38		



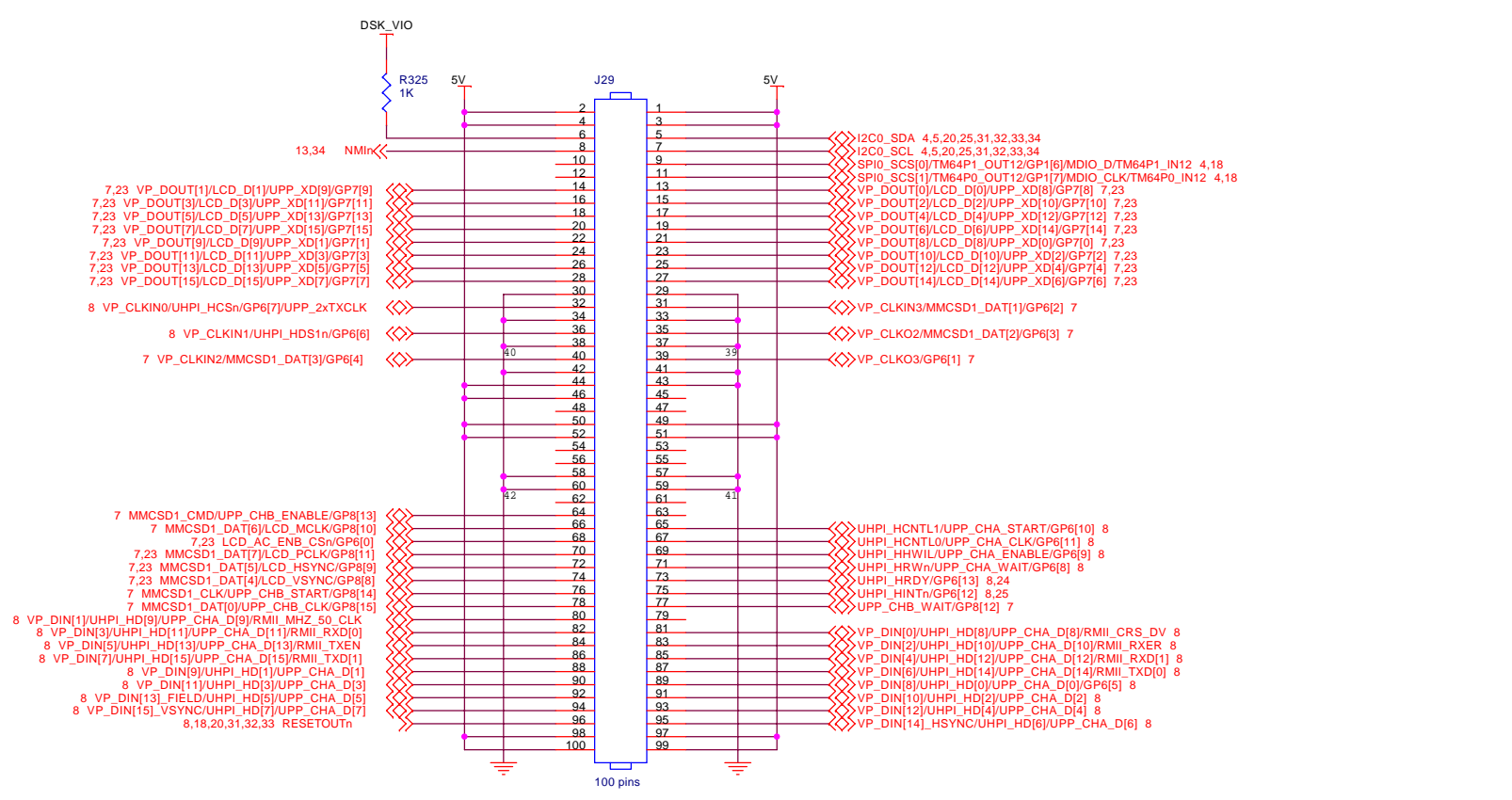
Differential Pair 90 ohms

LOCATE DS1 ON EDGE OF BOARD BY CONNECTOR J1

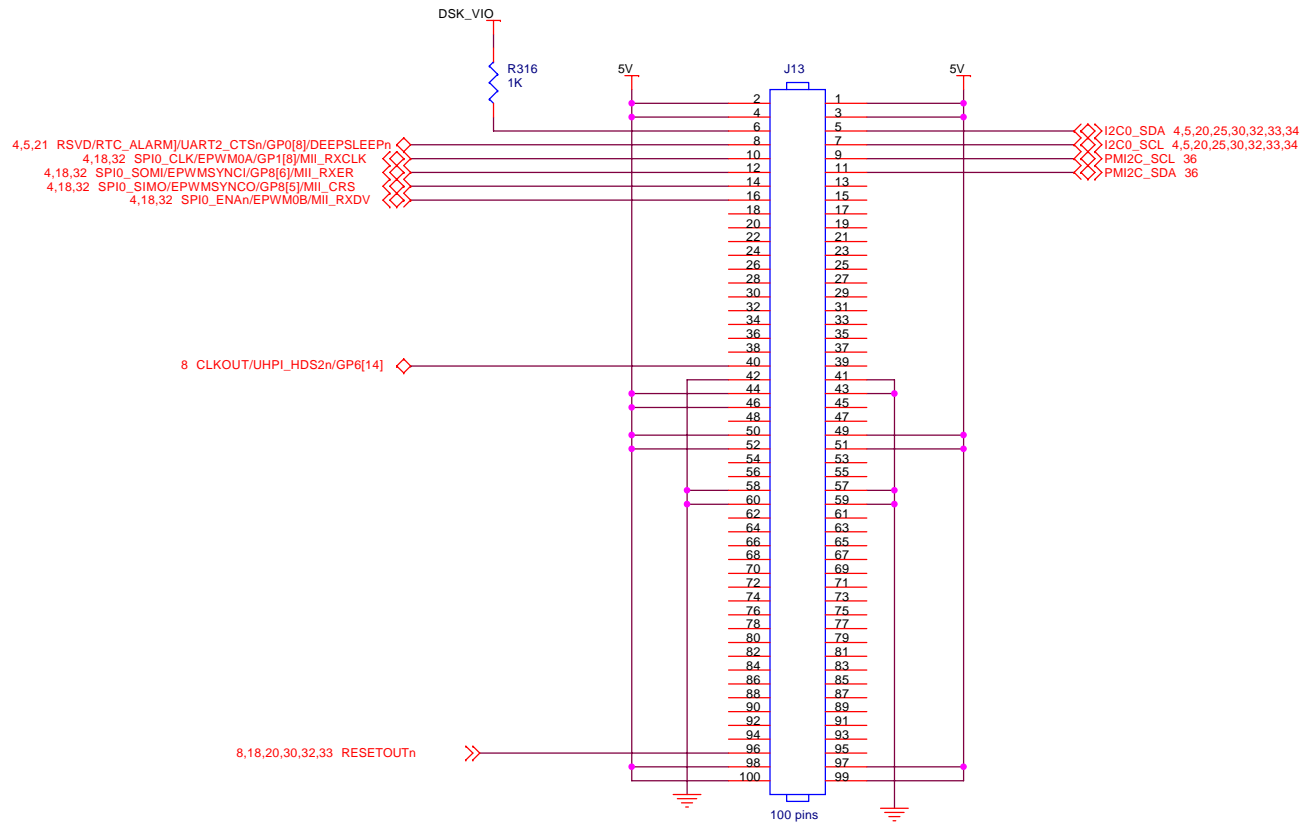
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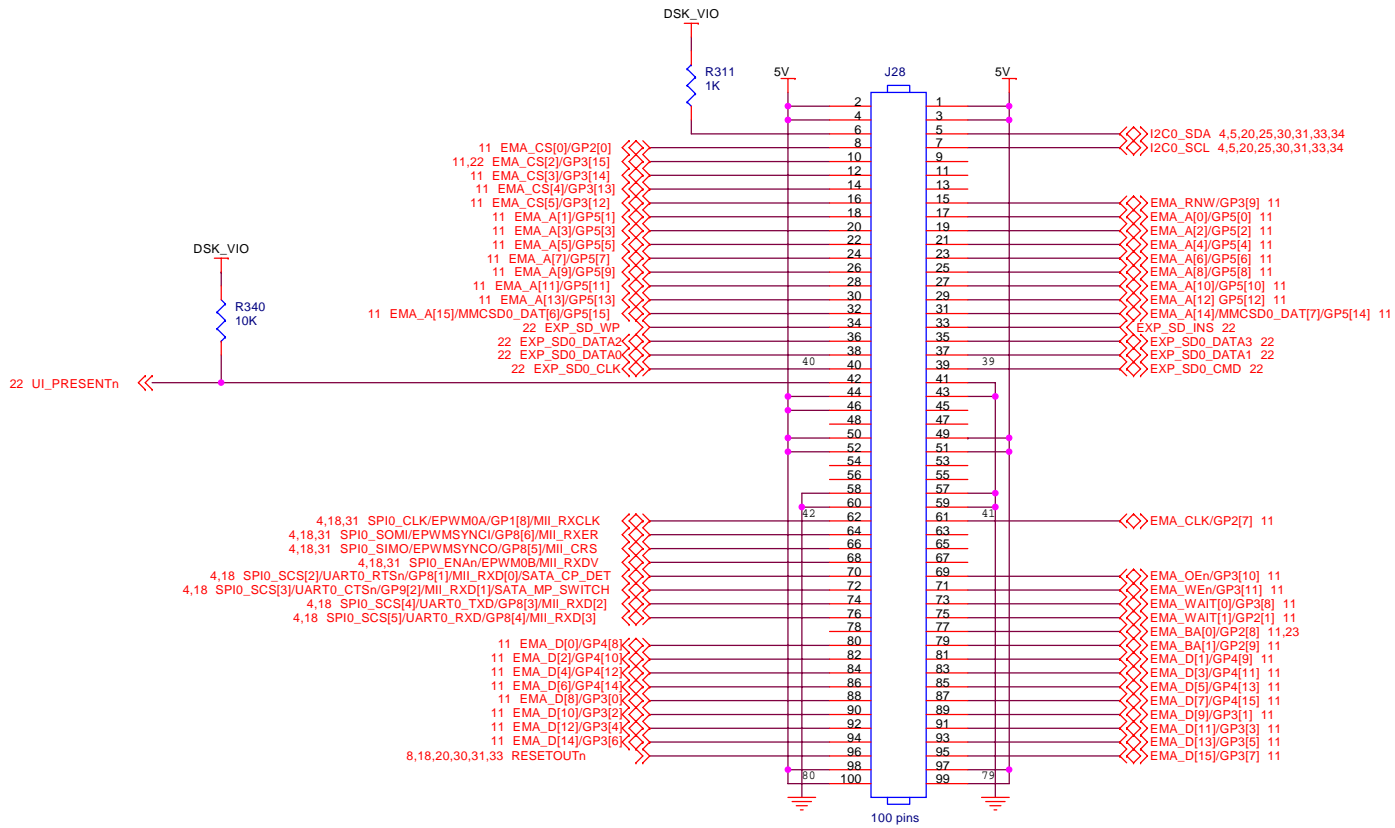
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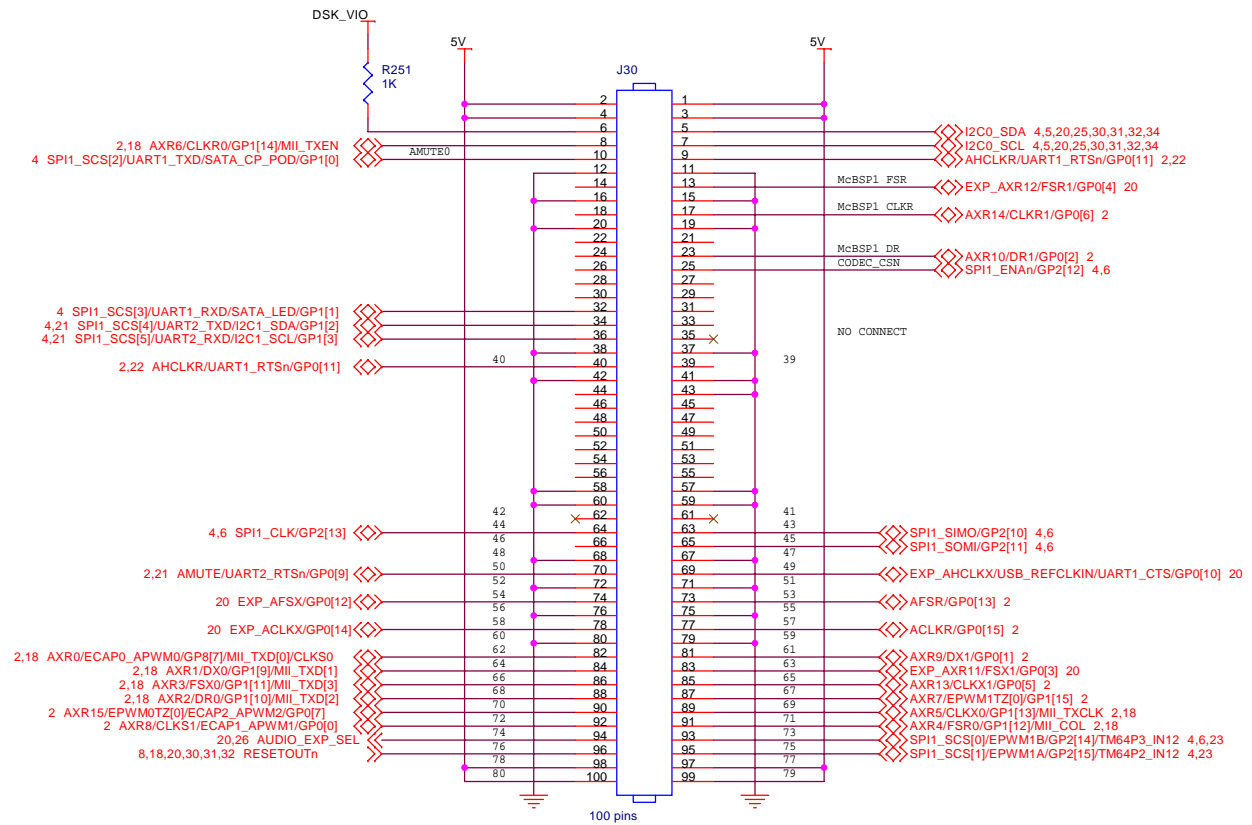
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Date:	Monday, December 20, 2010	Sheet	30 of 38



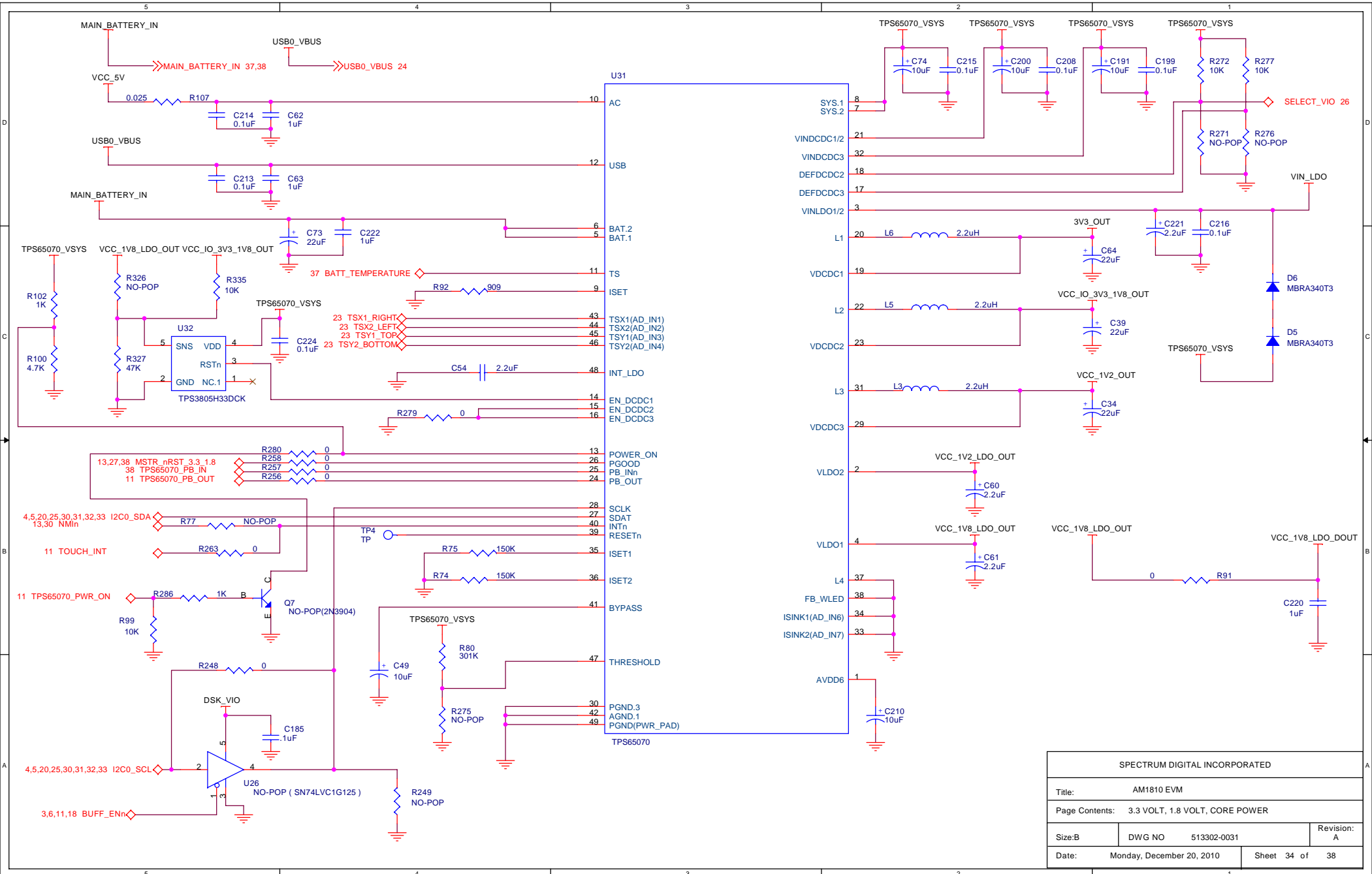
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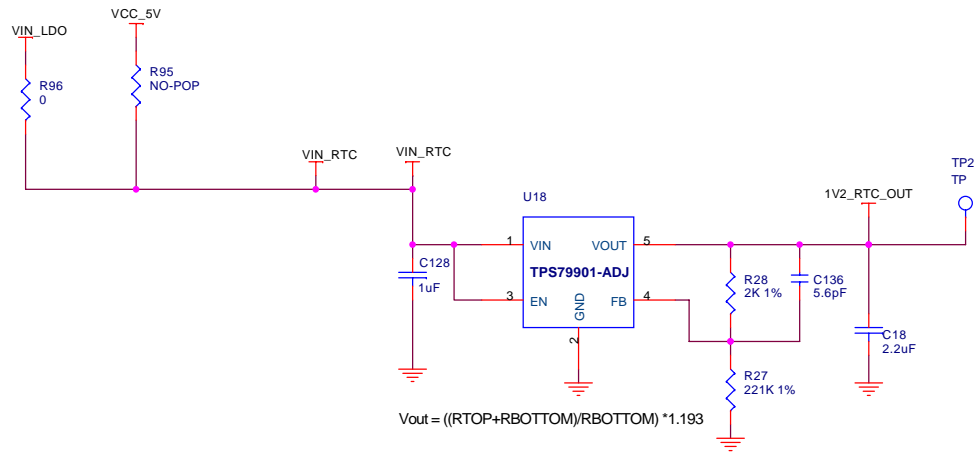
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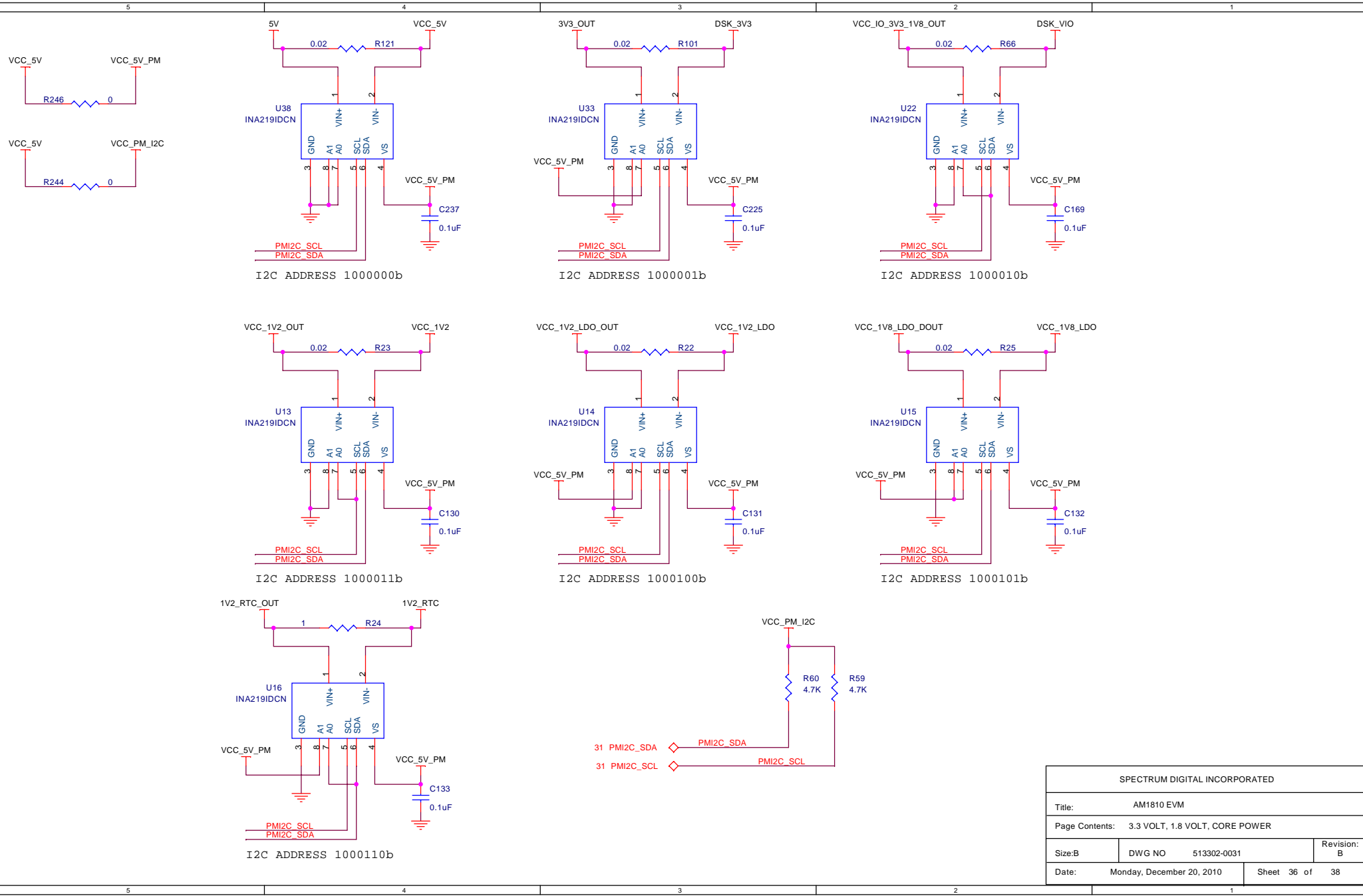
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SPECTRUM DIGITAL INCORPORATED			
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Size: B	DWG NO	513302-0031	Revision: A
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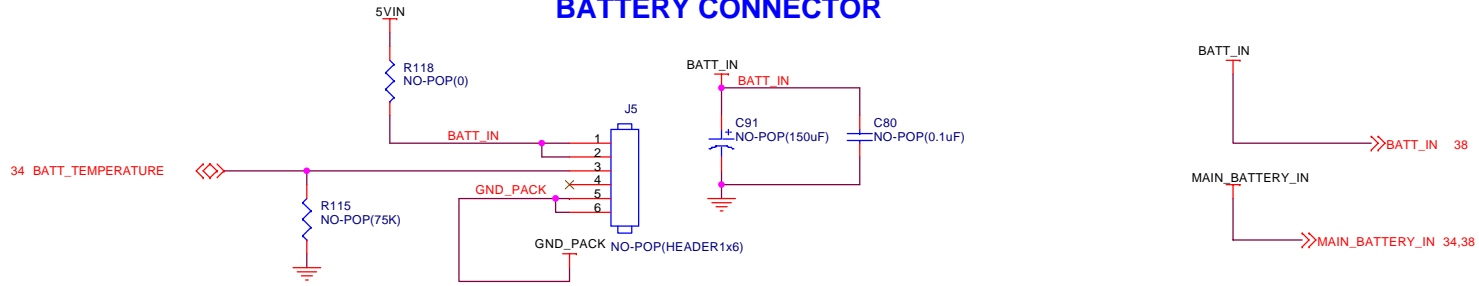


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Size:B	DWG NO	513302-0031	Revision: A
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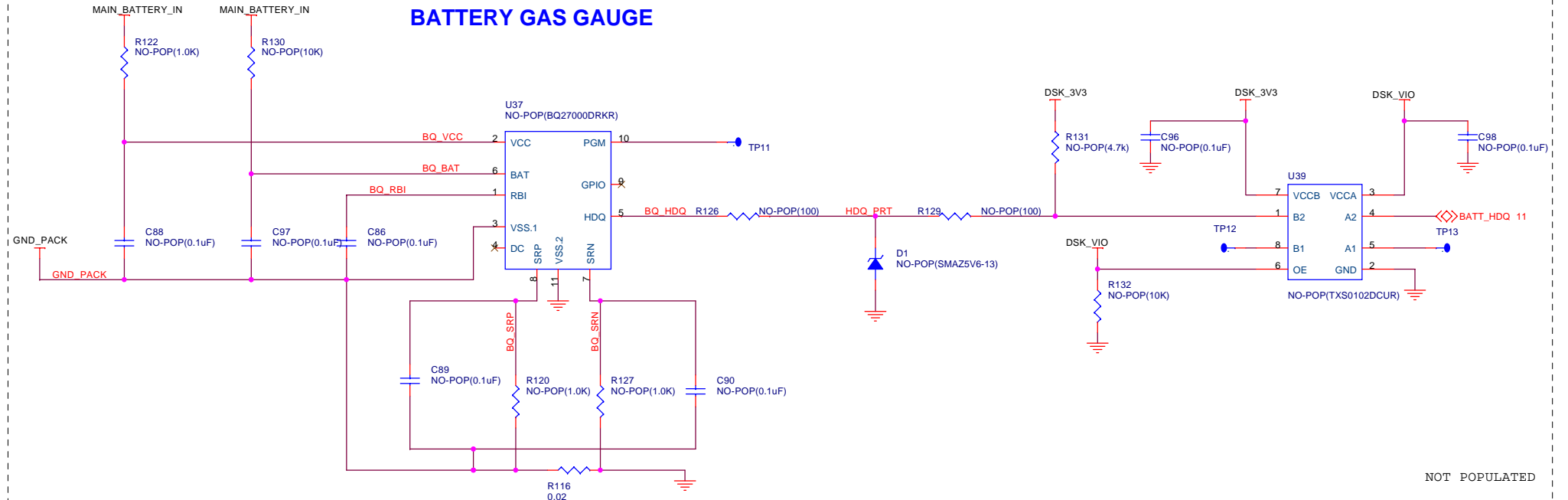
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Title: AM1810 EVM			
Page Contents: 3.3 VOLT, 1.8 VOLT, CORE POWER			
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BATTERY CONNECTOR



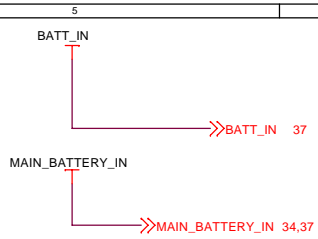
NOT POPULATED

BATTERY GAS GAUGE

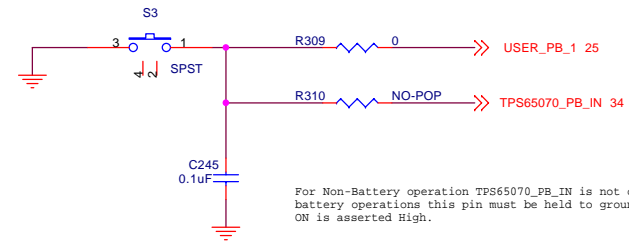
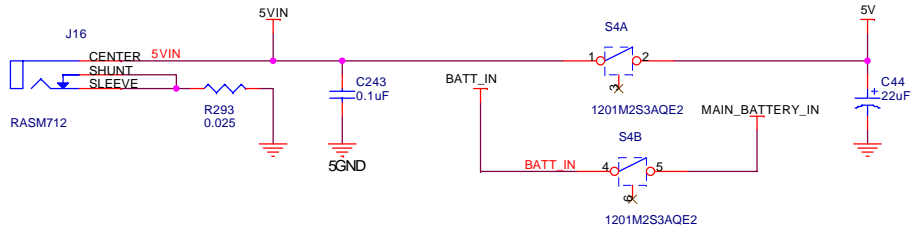


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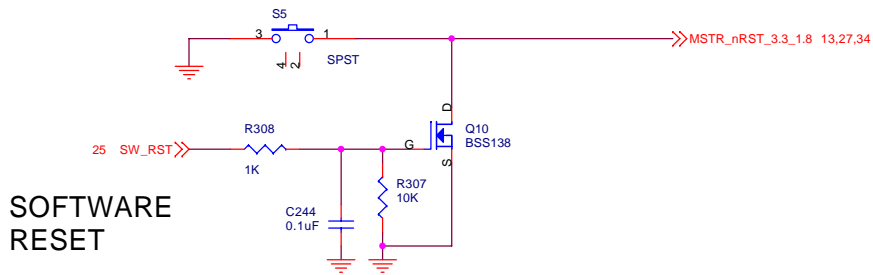
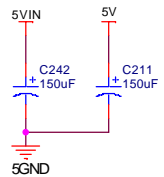
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: BASE BOARD POWER, FUEL GAUGE			
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5V POWER INPUT



For Non-Battery operation TPS65070_PB_IN is not connected, for battery operations this pin must be held to ground until POWER ON is asserted High.



SOFTWARE RESET

SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: POWER INPUT, BATTERY INPUT, MISC			
Size: B	DWG NO: 513302-0031	Revision: A	
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