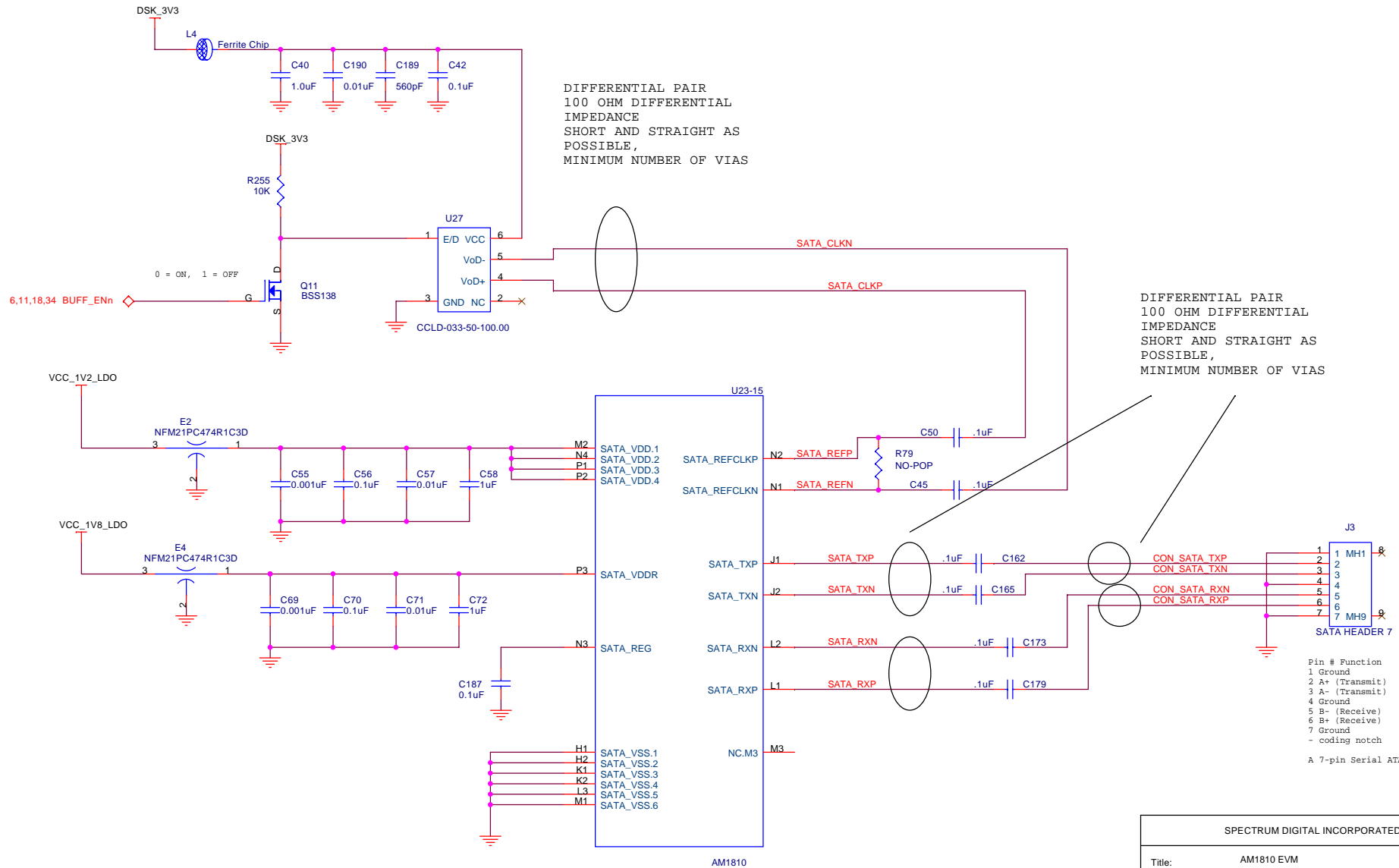
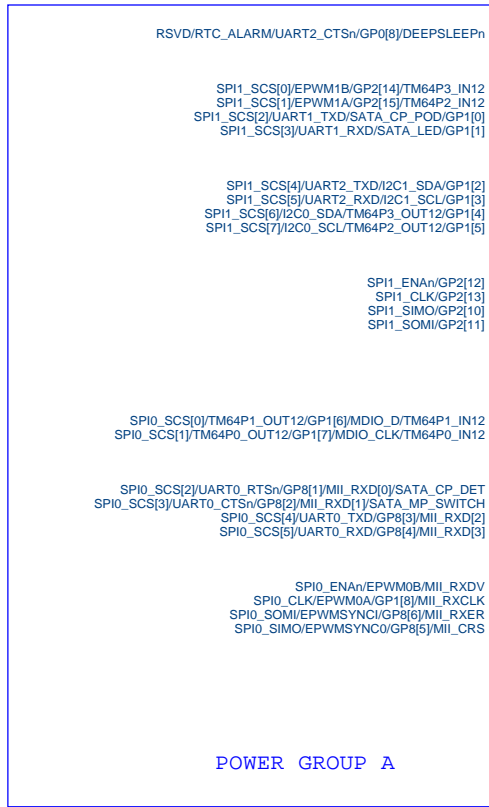


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: McASP/MII Ethernet MAC			
Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title:		AM1810 EVM	
Page Contents: SATA INTERFACE			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 3 of	38

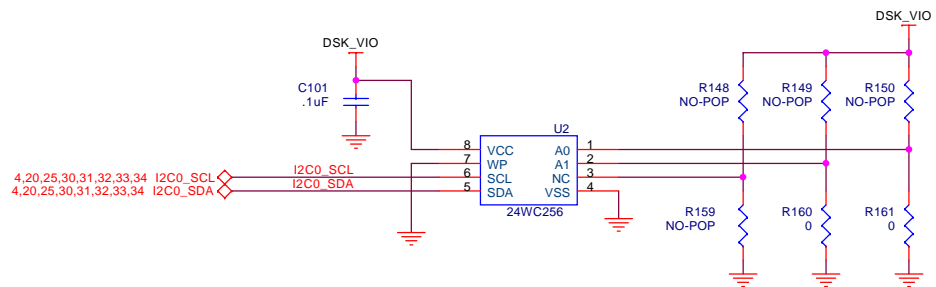
U23-6



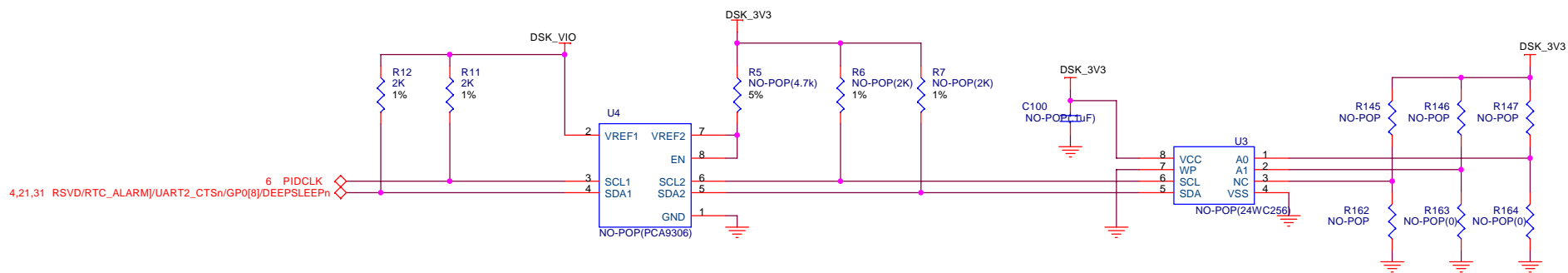
AM1810



SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AM1808 SERIAL I/O			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 4 of	38



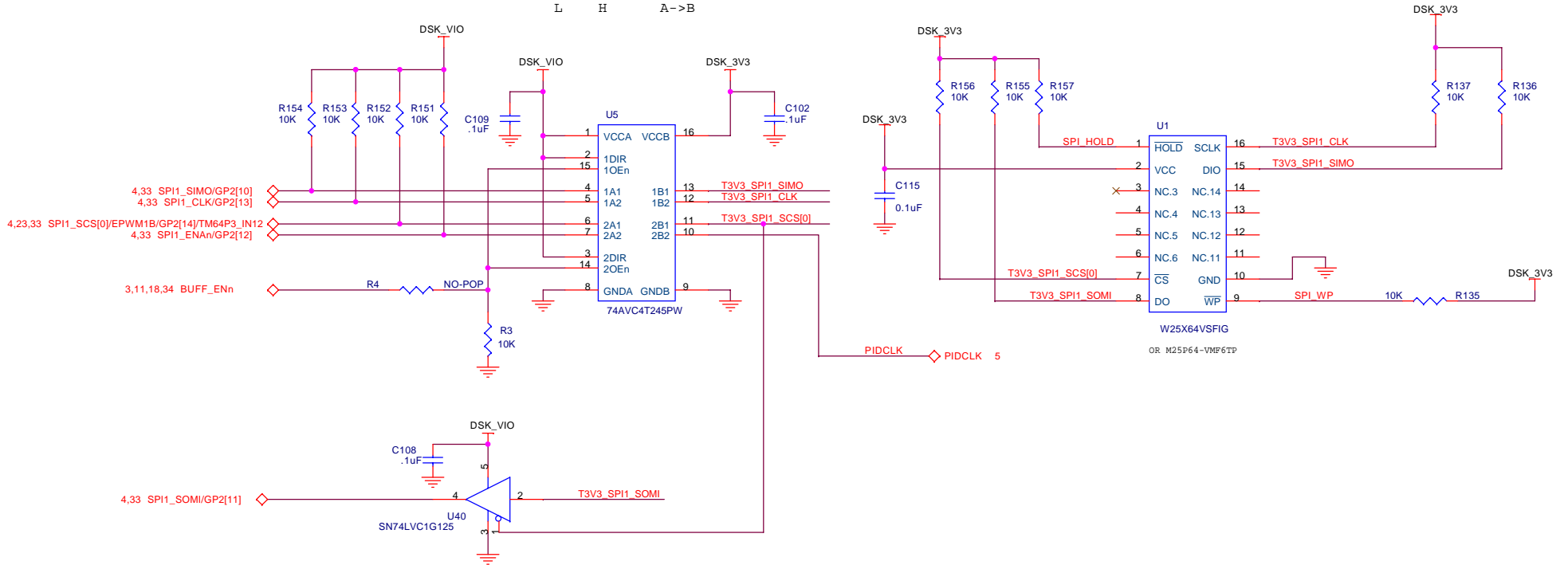
DO NOT POPULATE



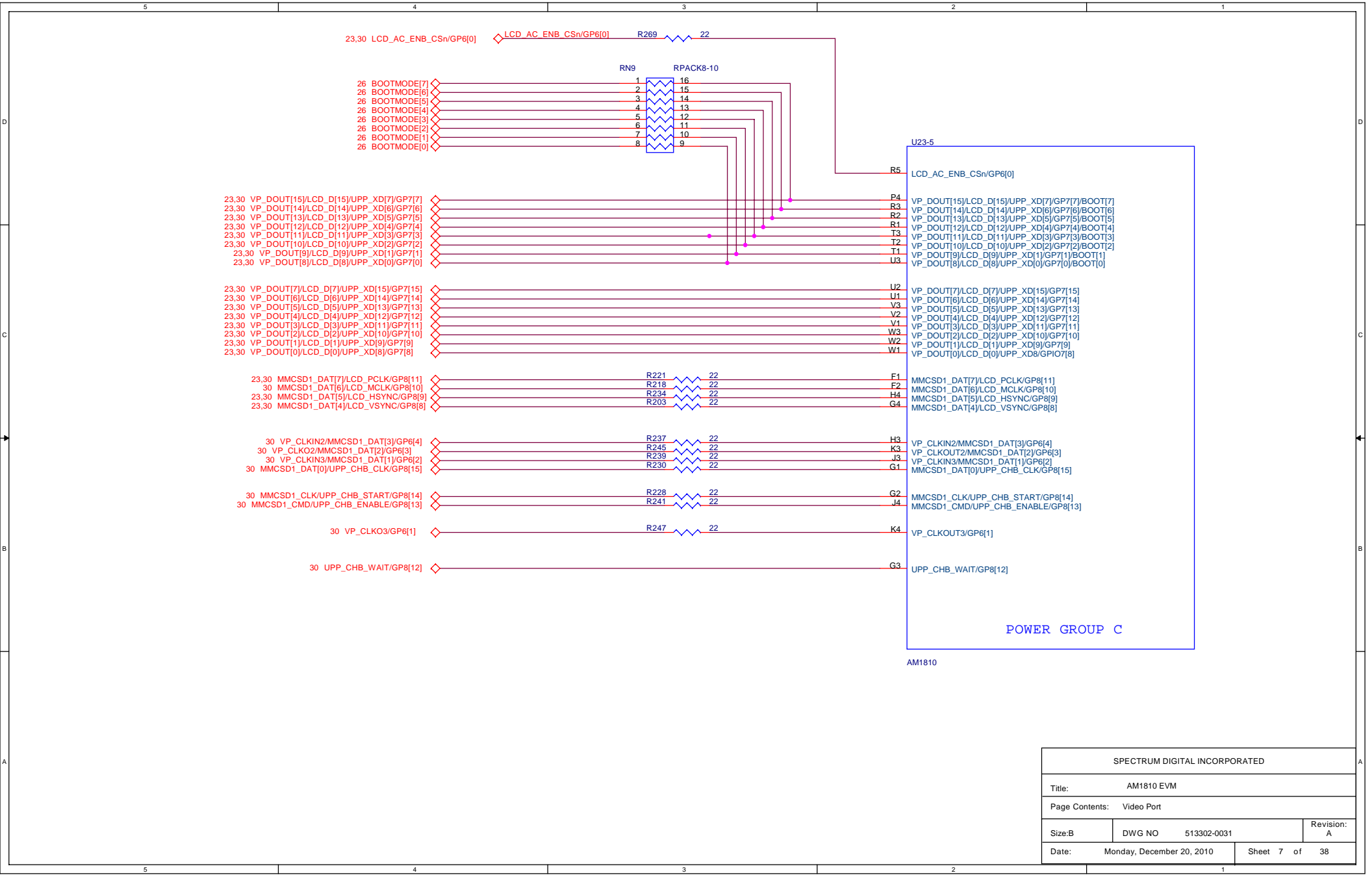
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: I2C EEPROM / PARAMETER I2C EEPROM			
Size: B	DWG NO	513302-0031	Revision: A
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### LEVEL TRANSLATORS

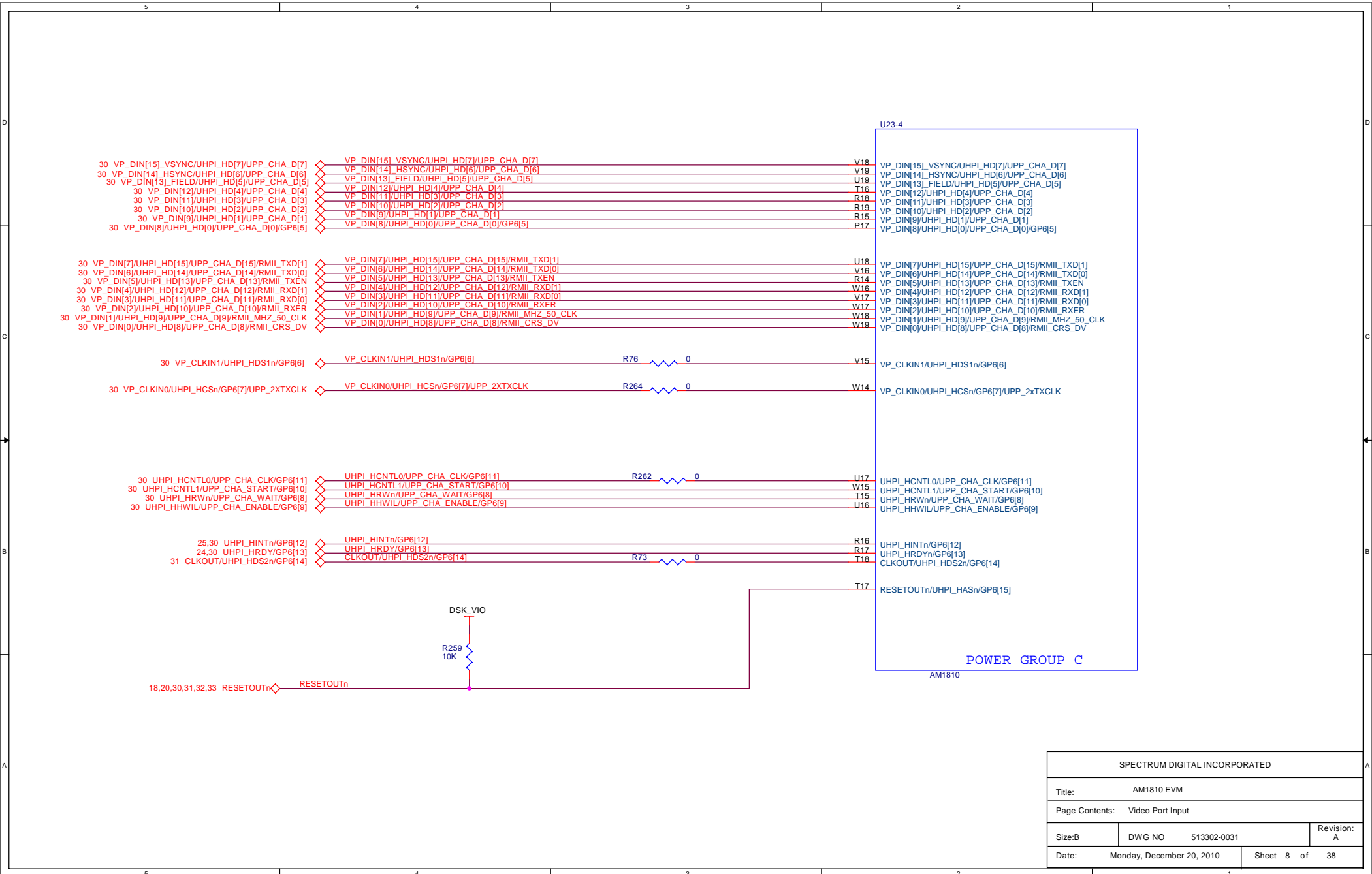
OE	DIR	FUNCTION
L	L	B->A
L	H	A->B



SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: SPI ROM			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 6 of	38

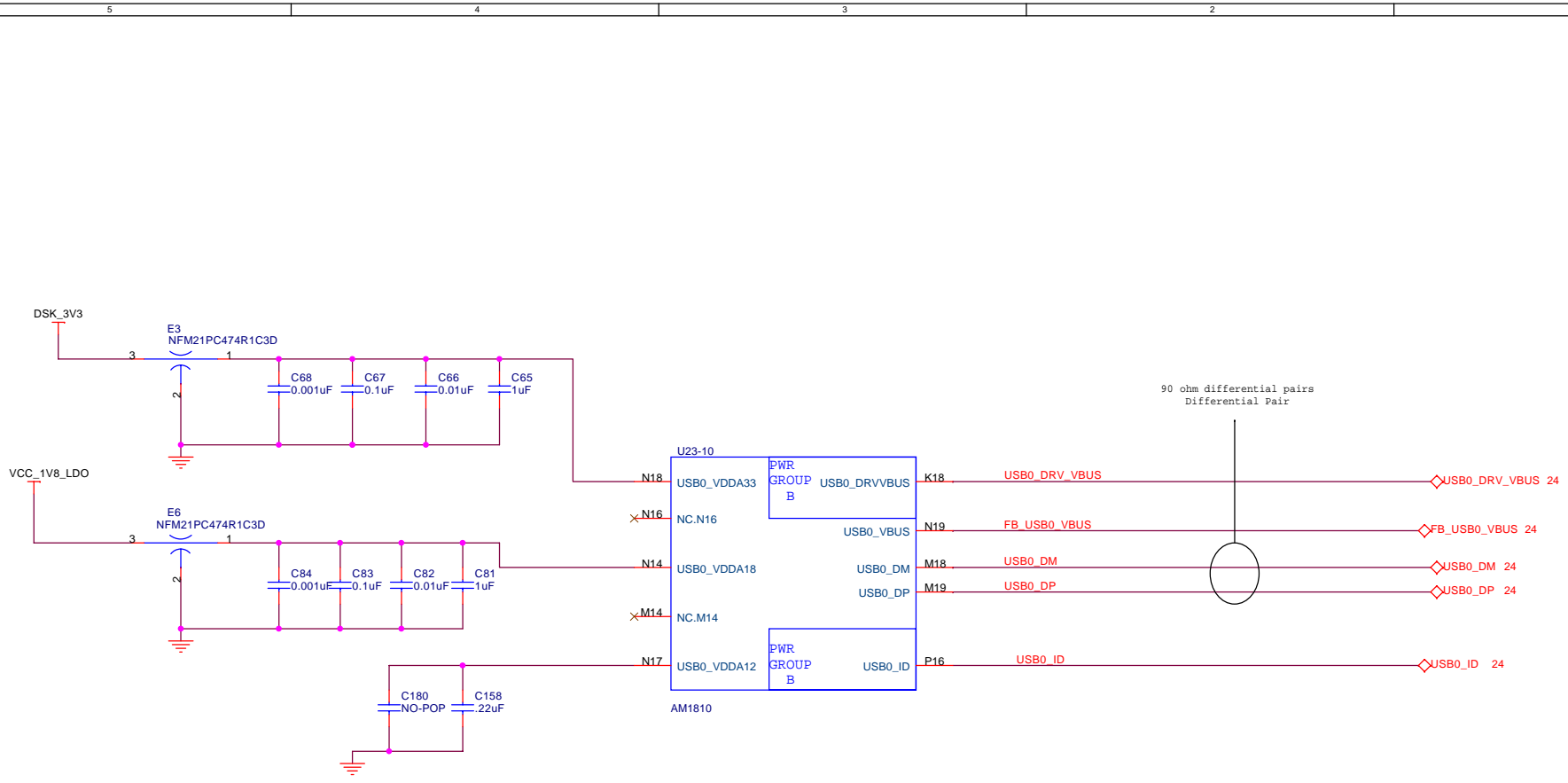


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: Video Port			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 7 of 38	

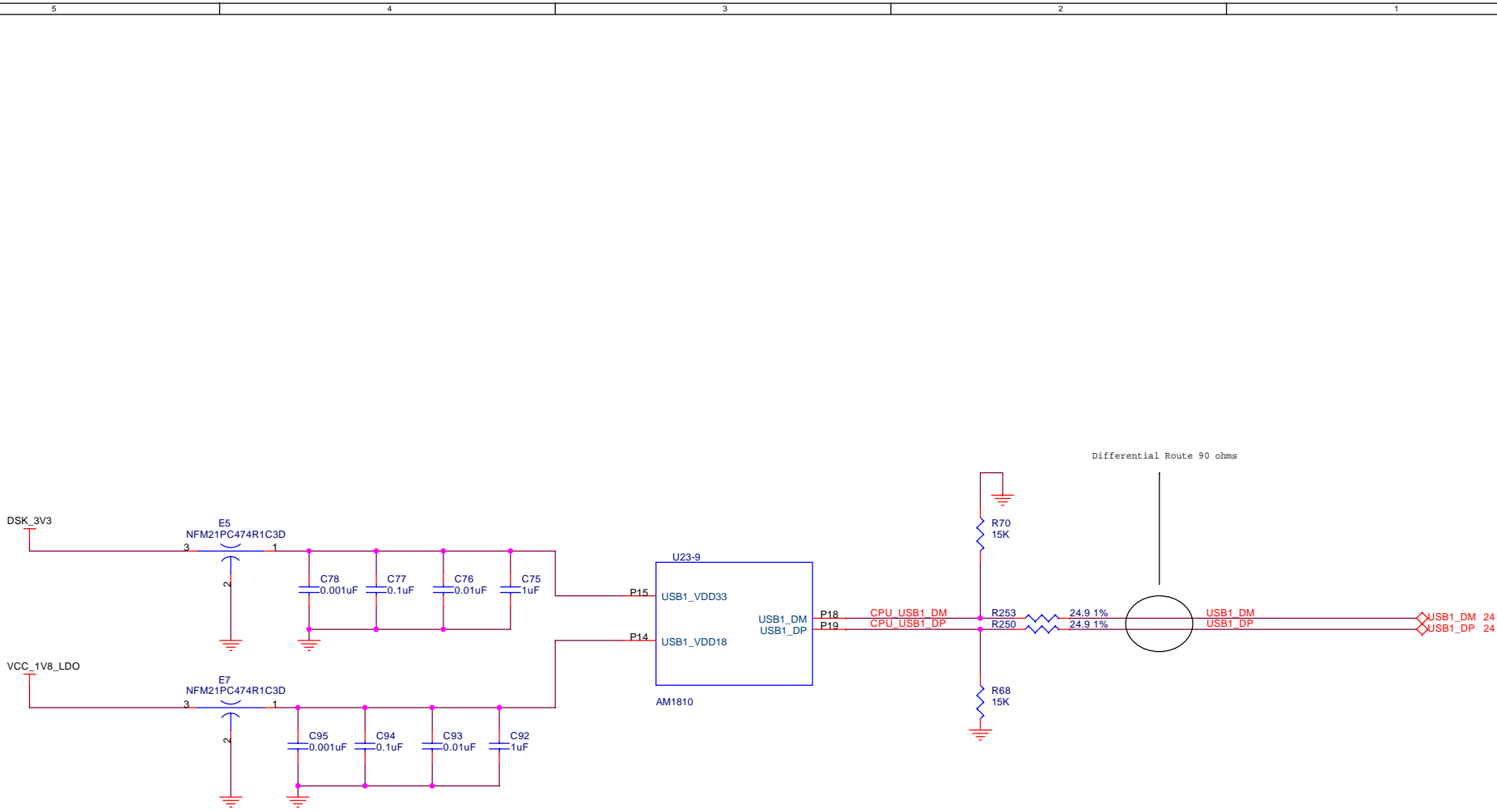


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: Video Port Input			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 8	of 38

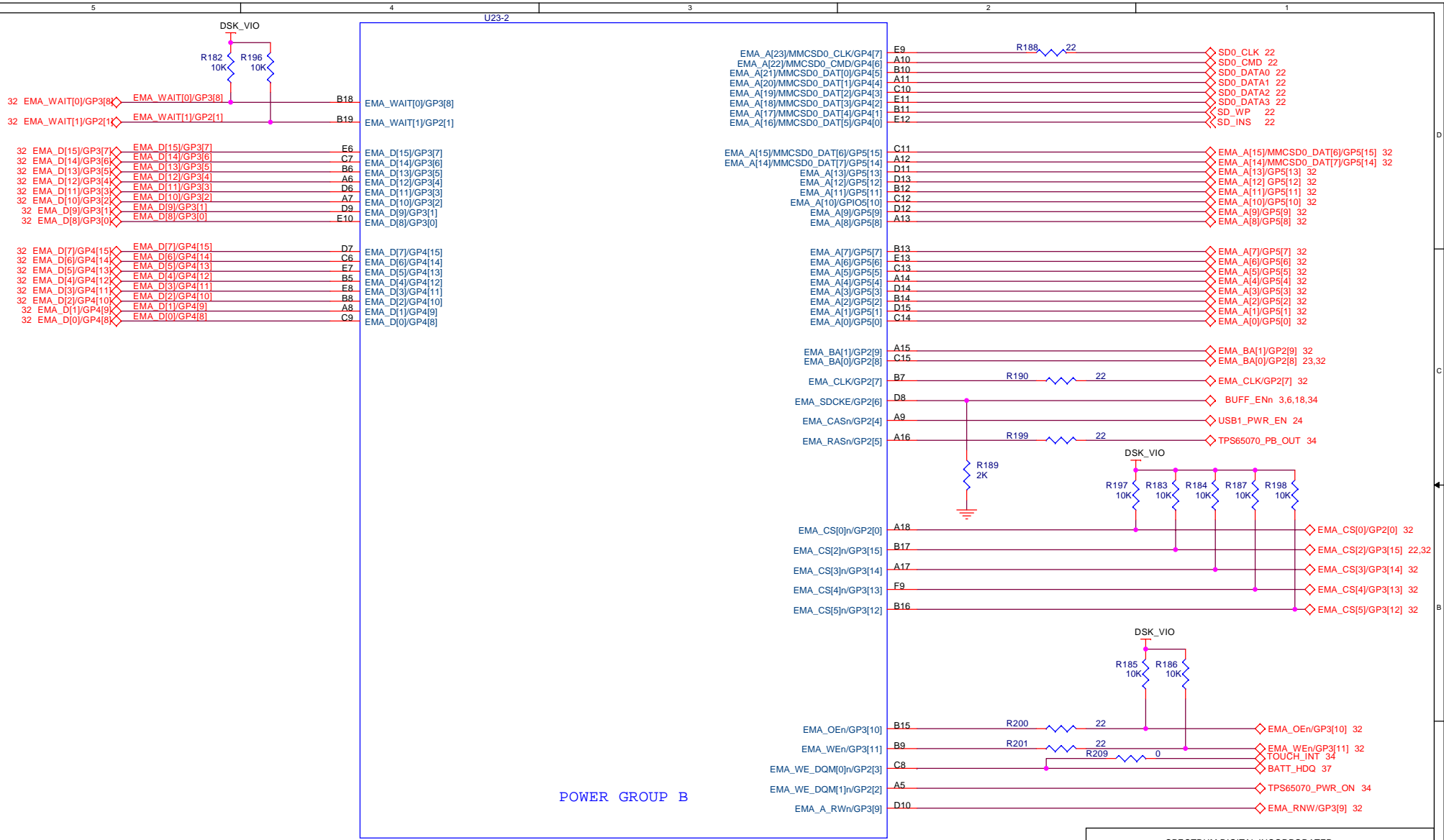




SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: USB 2.0 INTERFACE			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 9 of	38



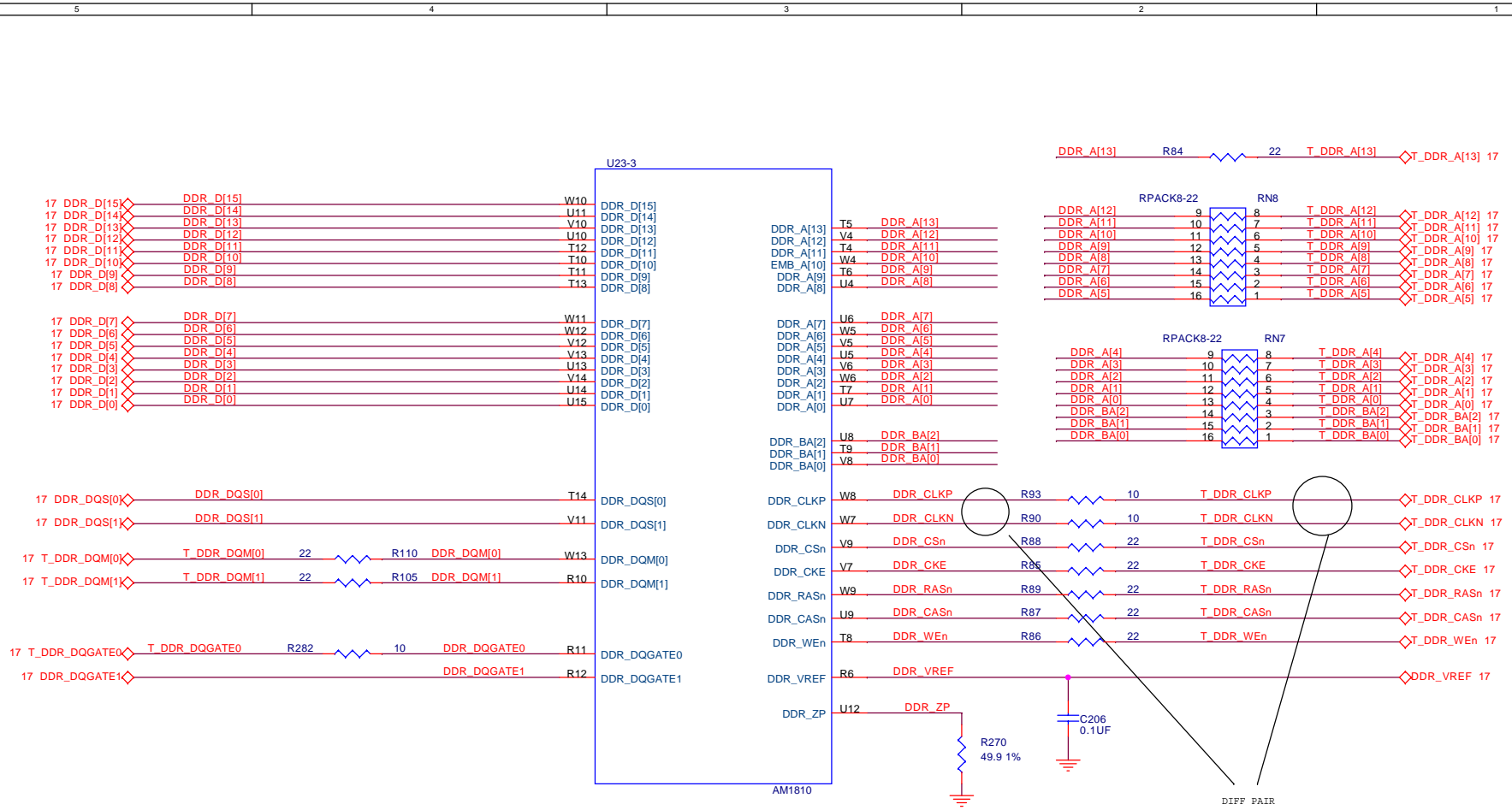
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: USB 1.0 HOST INTERFACE			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 10 of	38



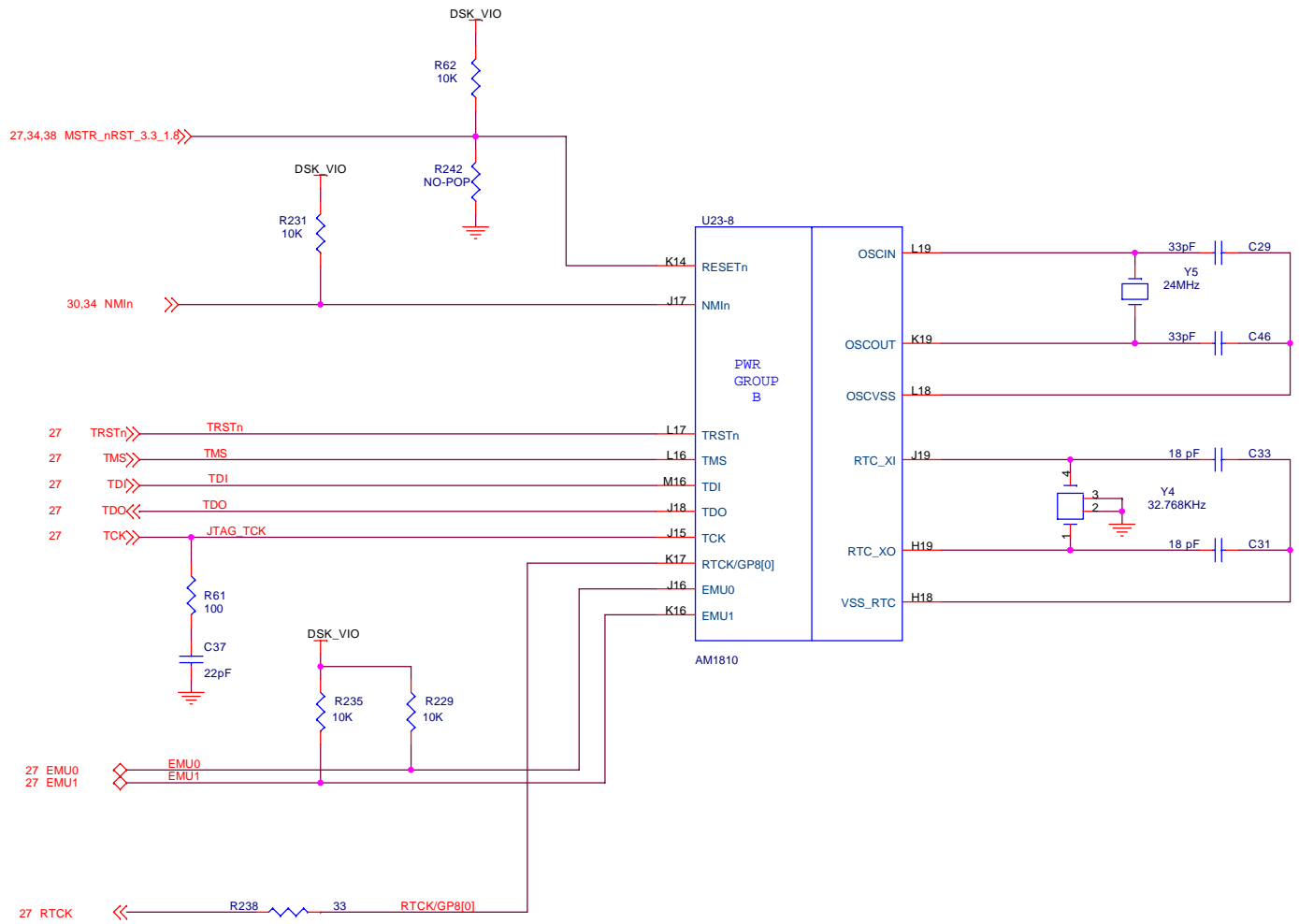
POWER GROUP B

AM1810

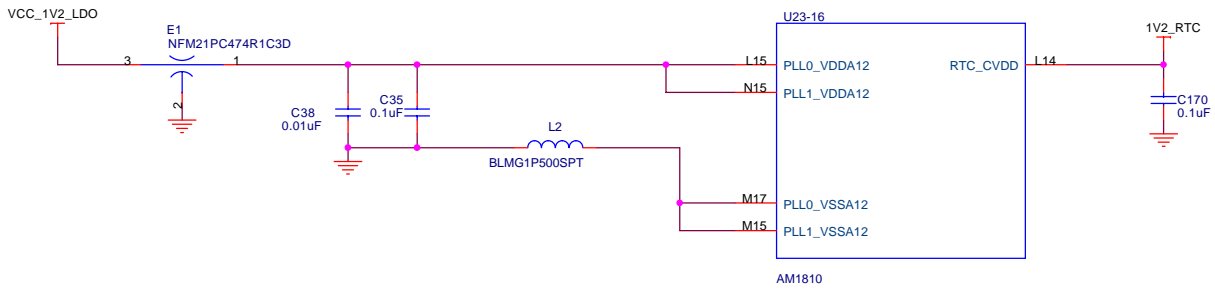
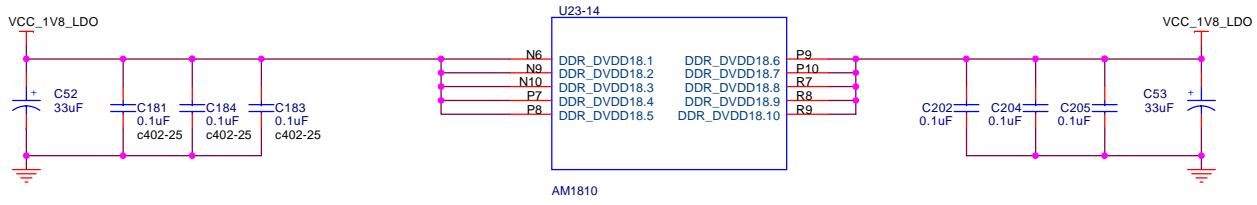
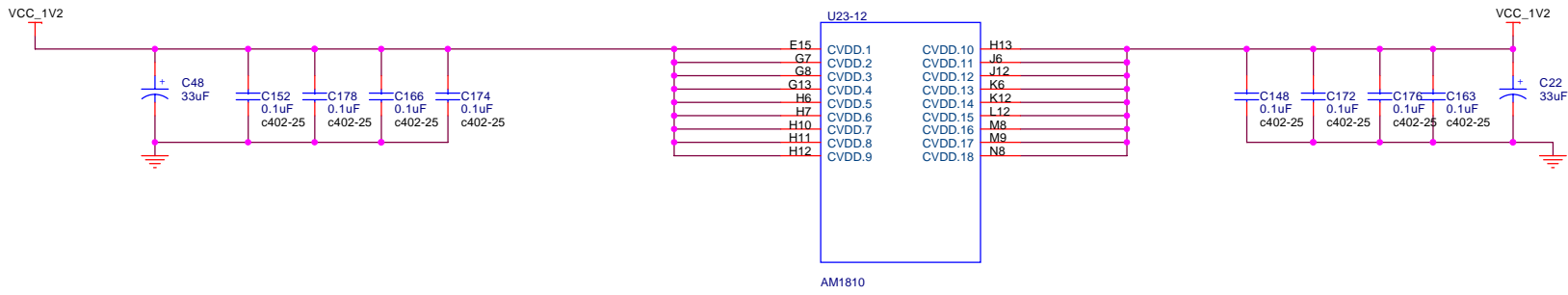
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: EMIFA Interface			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet	11 of 38



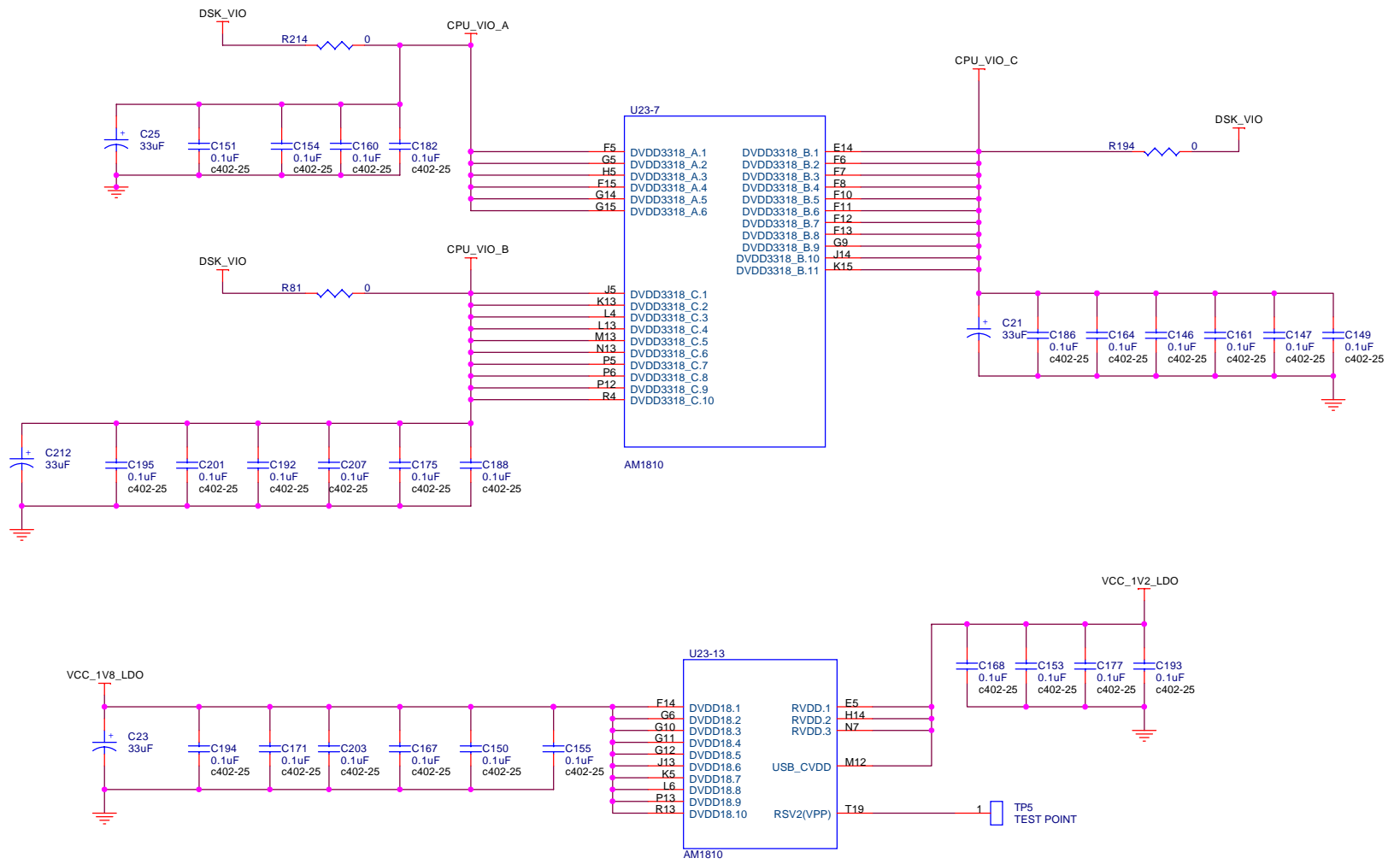
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: DDR2 INTERFACE			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 12 of	38



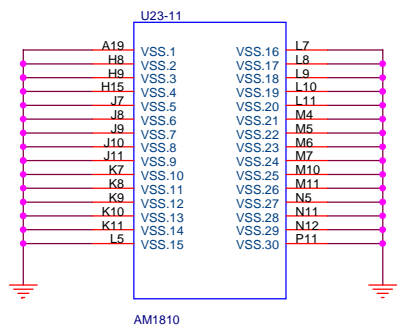
SPECTRUM DIGITAL INCORPORATED			
Title:		AM1810 EVM	
Page Contents:		JTAG/CLOCKS	
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 13 of	38



SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AM1810 POWER PINS			
Size: B	DWG NO	513302-0031	Revision: C
Date:	Monday, December 20, 2010	Sheet 14 of	38

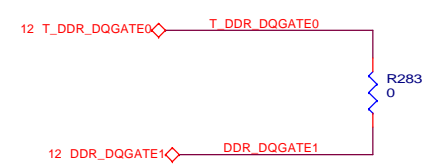
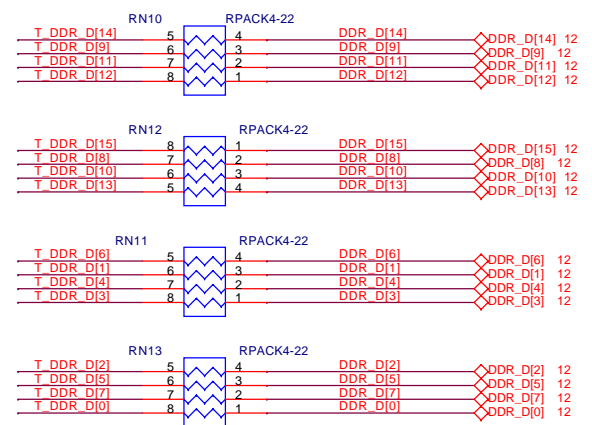
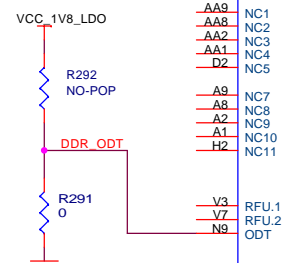
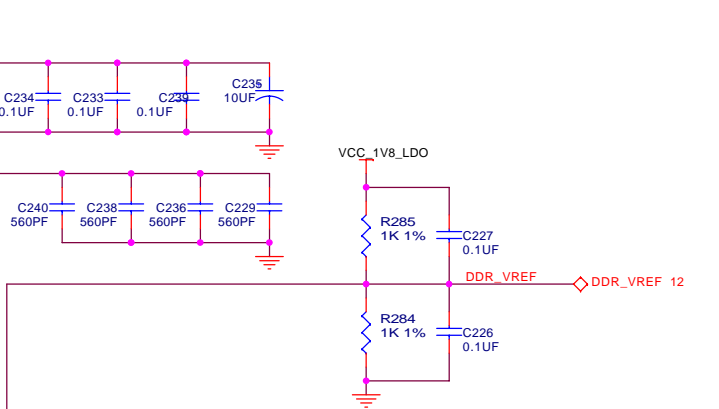
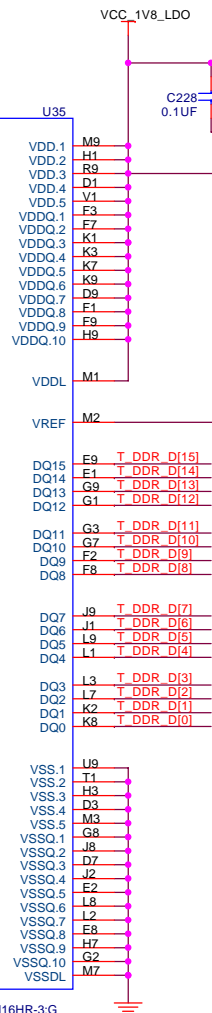
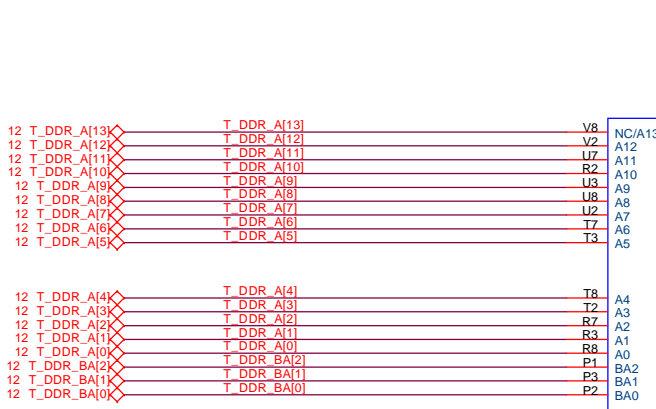


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AM1810 I/O POWER PINS			
Size: B	DWG NO	513302-0031	Revision: A
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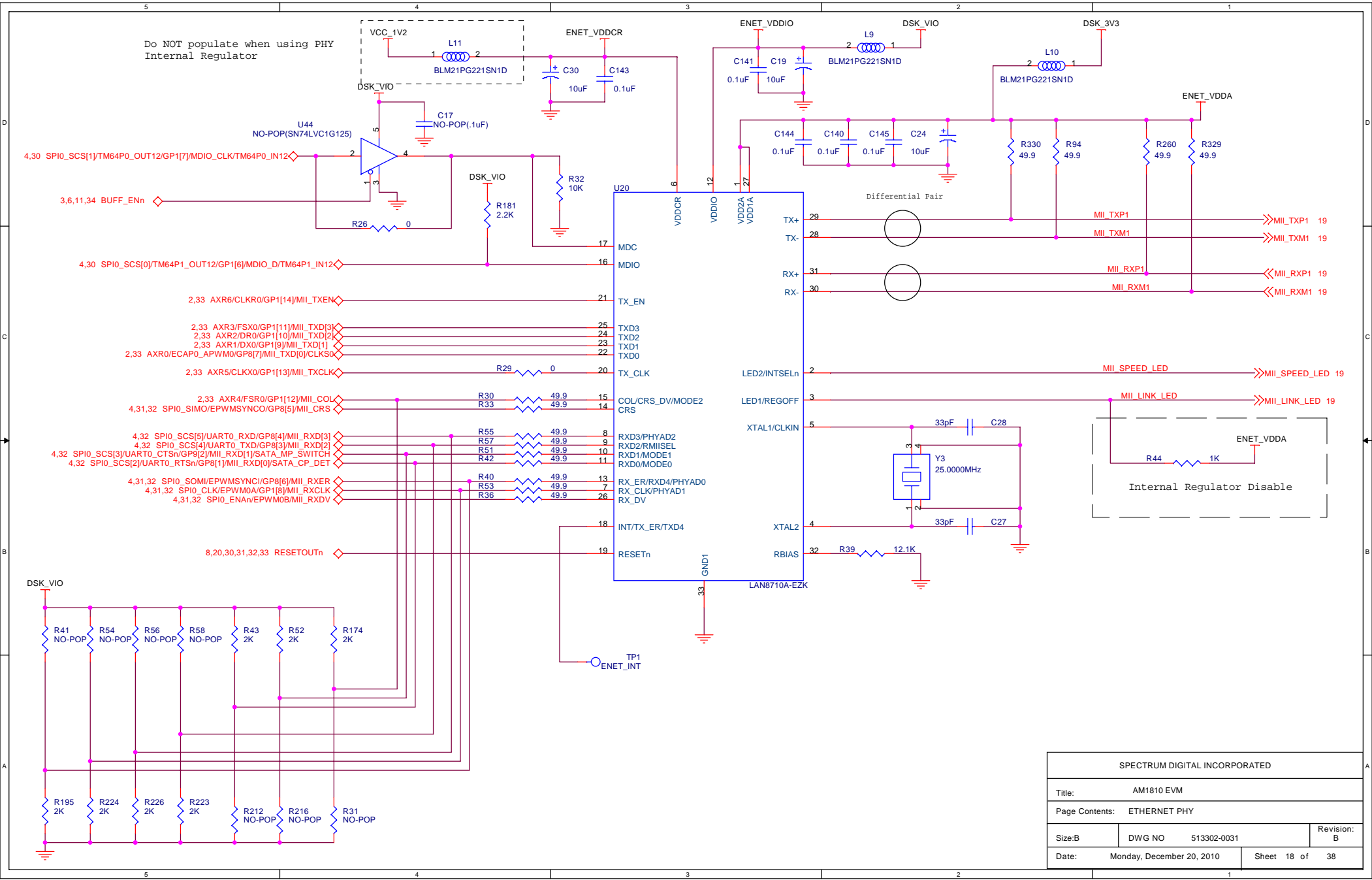
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AM1810 GROUND PINS			
Size: B	DWG NO	513302-0031	Revision: A
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MT47H64M16HR-3-G

SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: DDR2 - EMIF B			
Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: ETHERNET PHY			
Size: B	DWG NO	513302-0031	Revision: B
Date:	Monday, December 20, 2010	Sheet 18 of	38

5

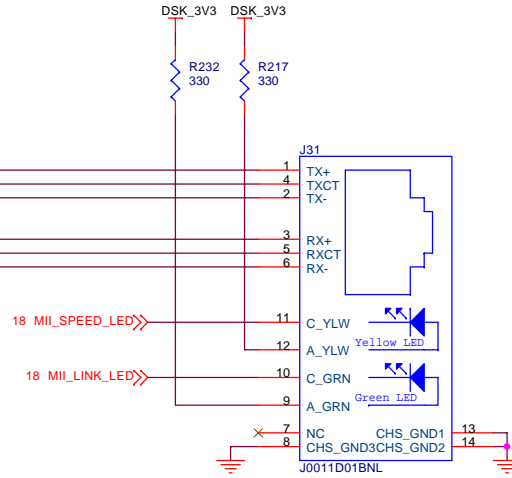
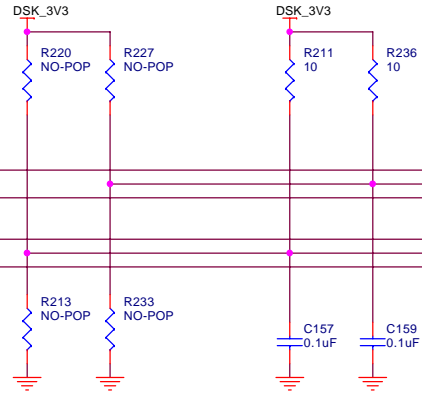
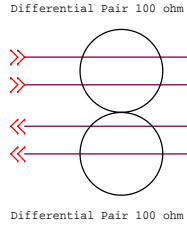
4

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	
Date: Monday, December 20, 2010	Sheet 19 of 38		

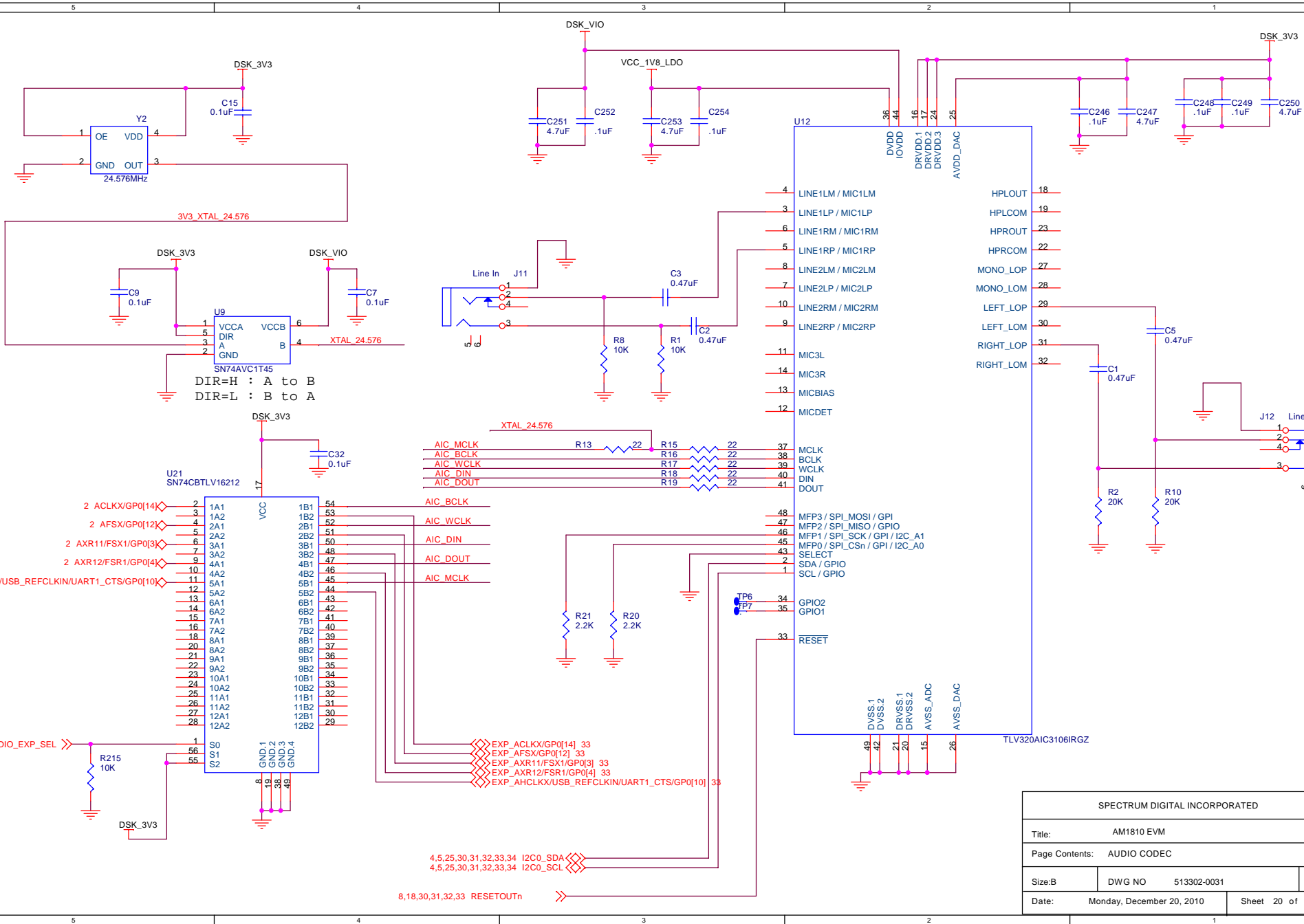
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4

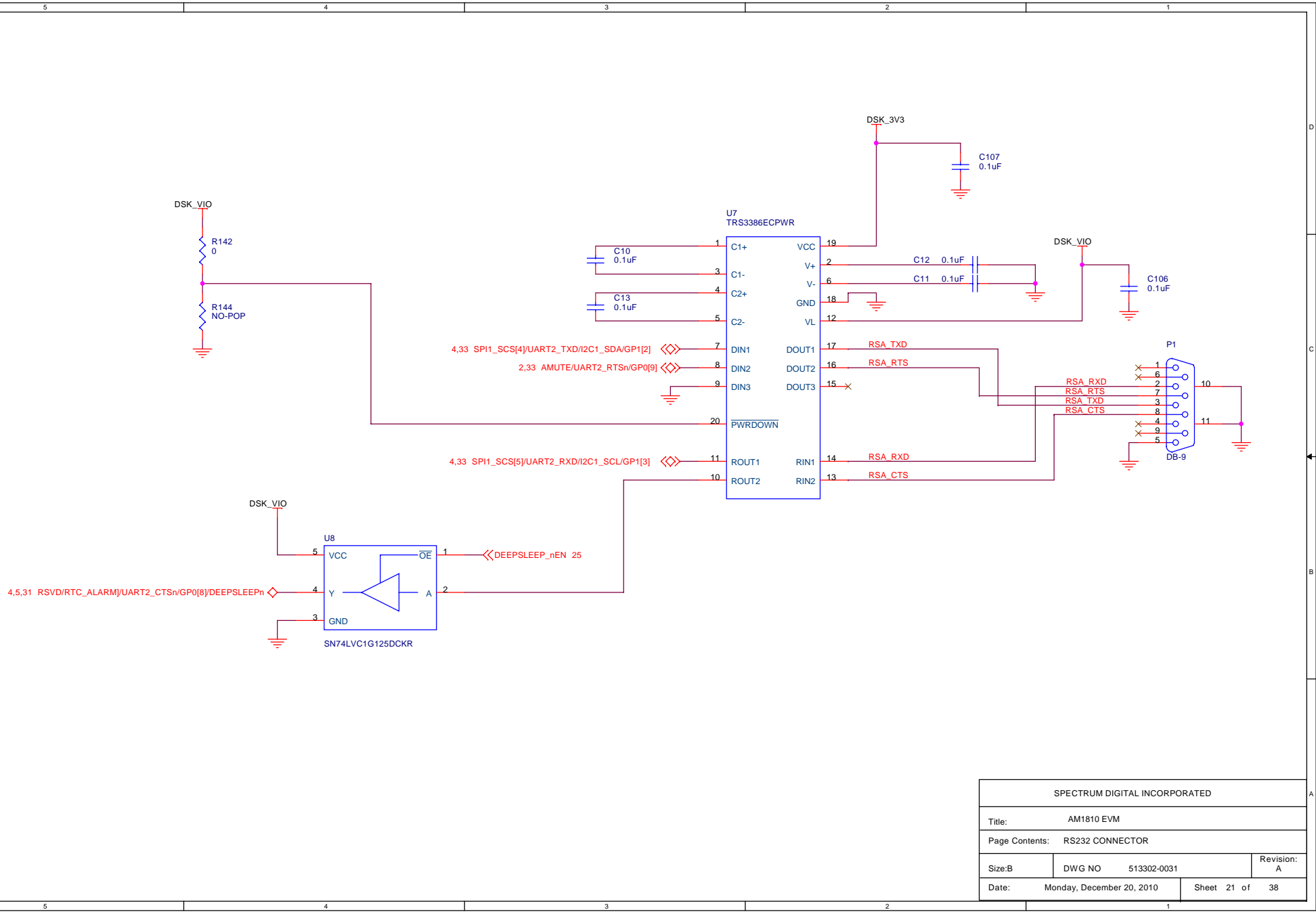
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2

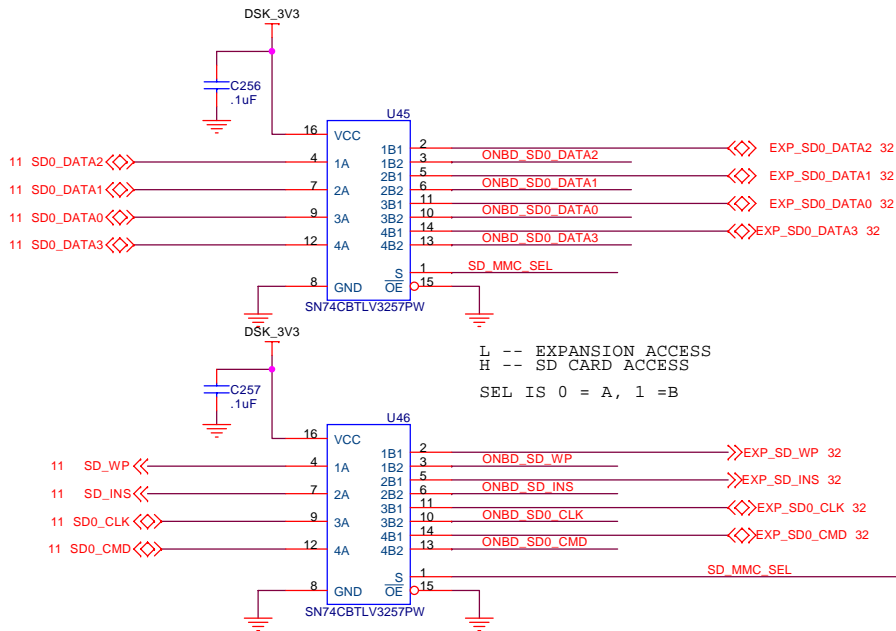
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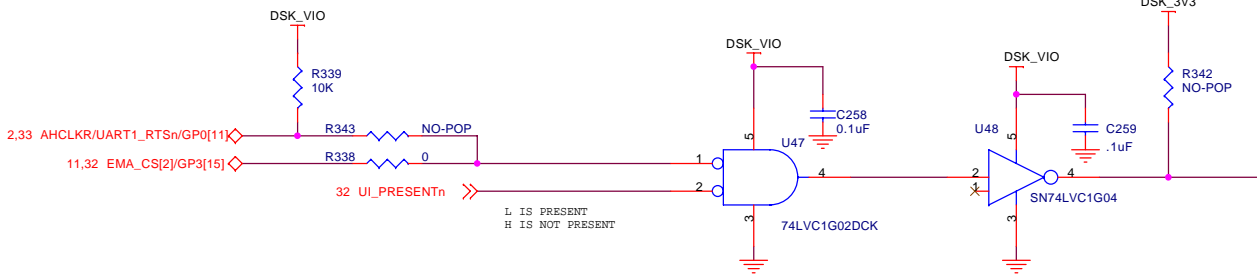
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AUDIO CODEC			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 20 of 38	



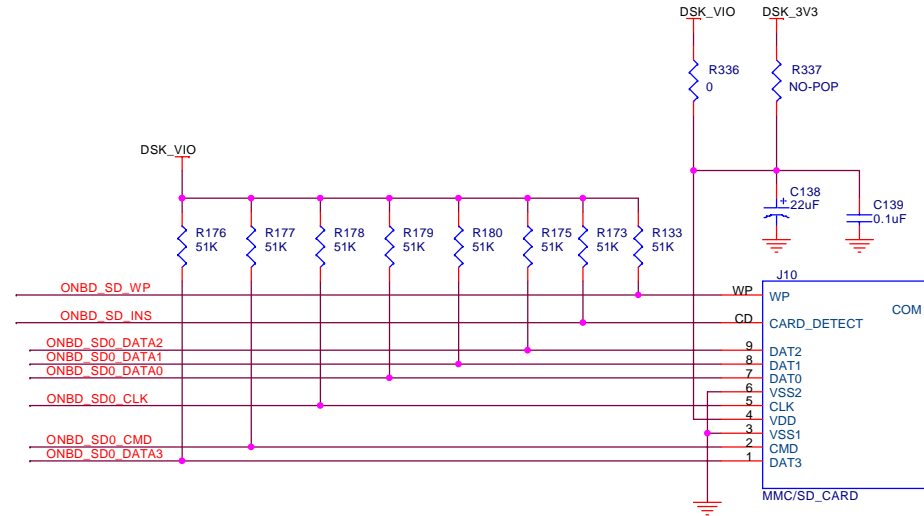
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: RS232 CONNECTOR			
Size: B	DWG NO	513302-0031	Revision: A
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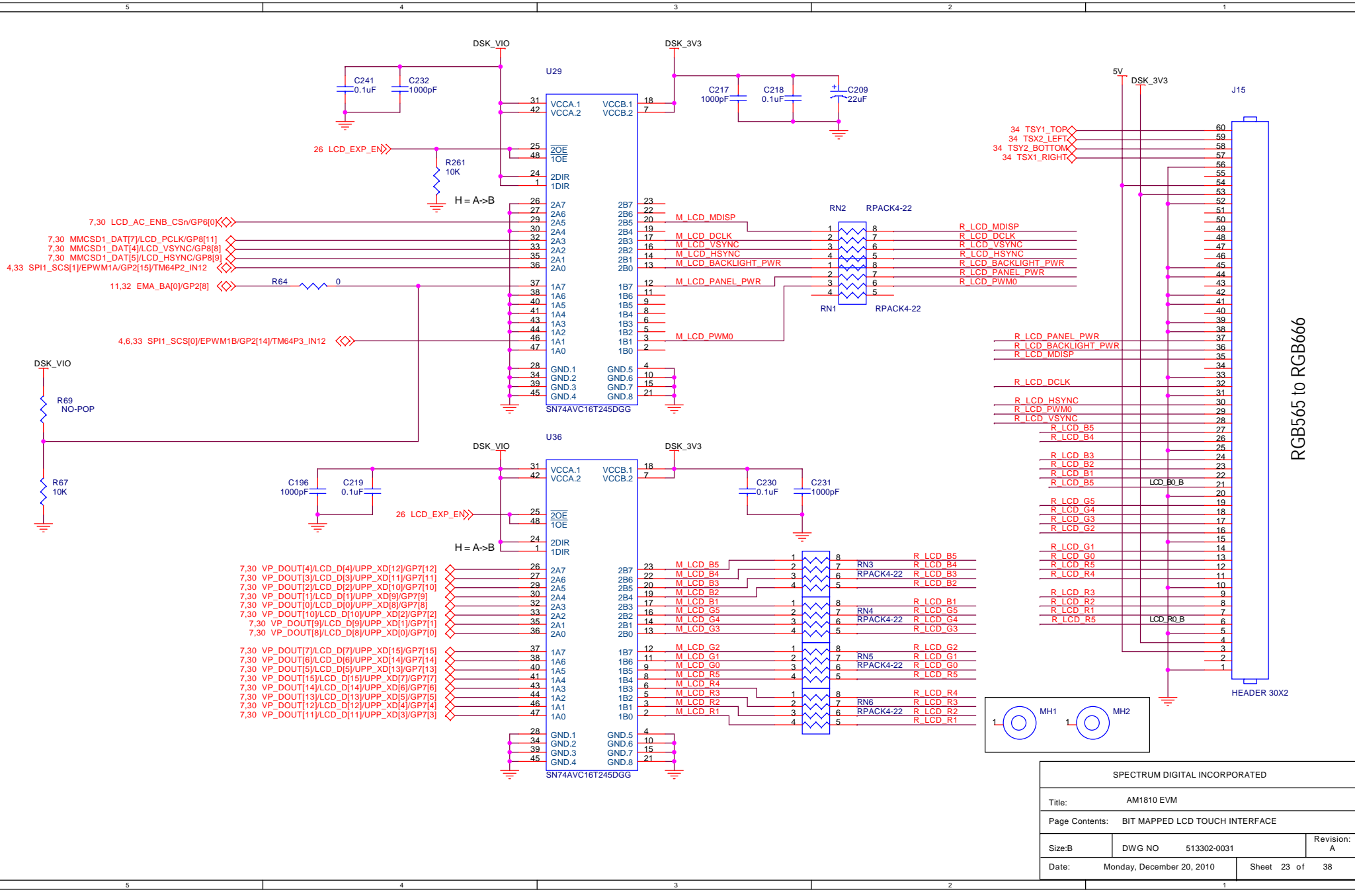
L -- EXPANSION ACCESS  
 H -- SD CARD ACCESS  
 SEL IS 0 = A, 1 =B



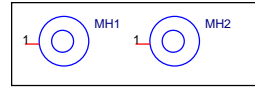
L IS PRESENT  
 H IS NOT PRESENT



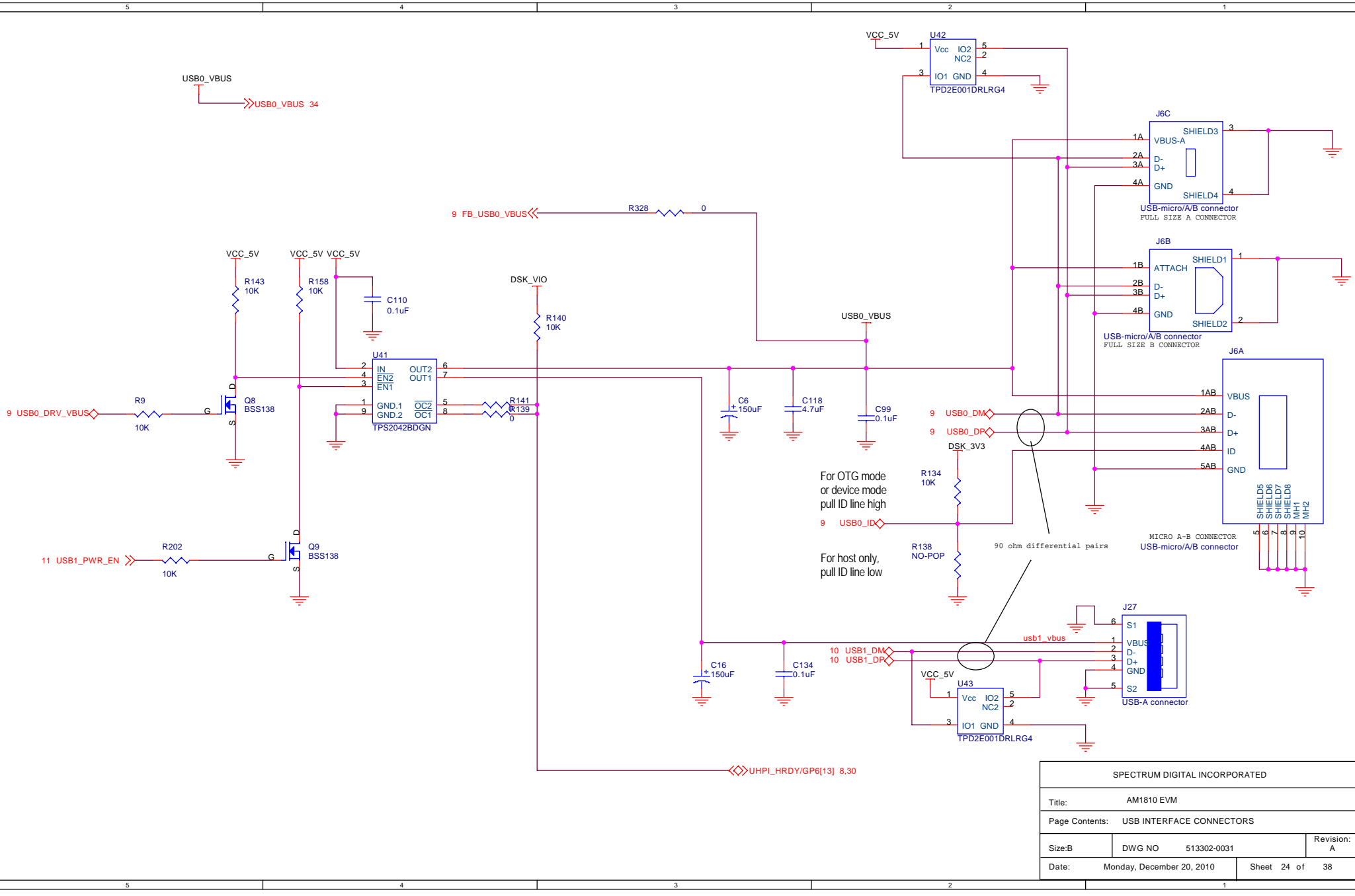
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: SD/MMC CONNECTOR			
Size: B	DWG NO	513302-0031	Revision: A
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RGB565 to RGB666



SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: BIT MAPPED LCD TOUCH INTERFACE			
Size: B	DWG NO: 513302-0031	Revision: A	
Date: Monday, December 20, 2010	Sheet 23 of 38		

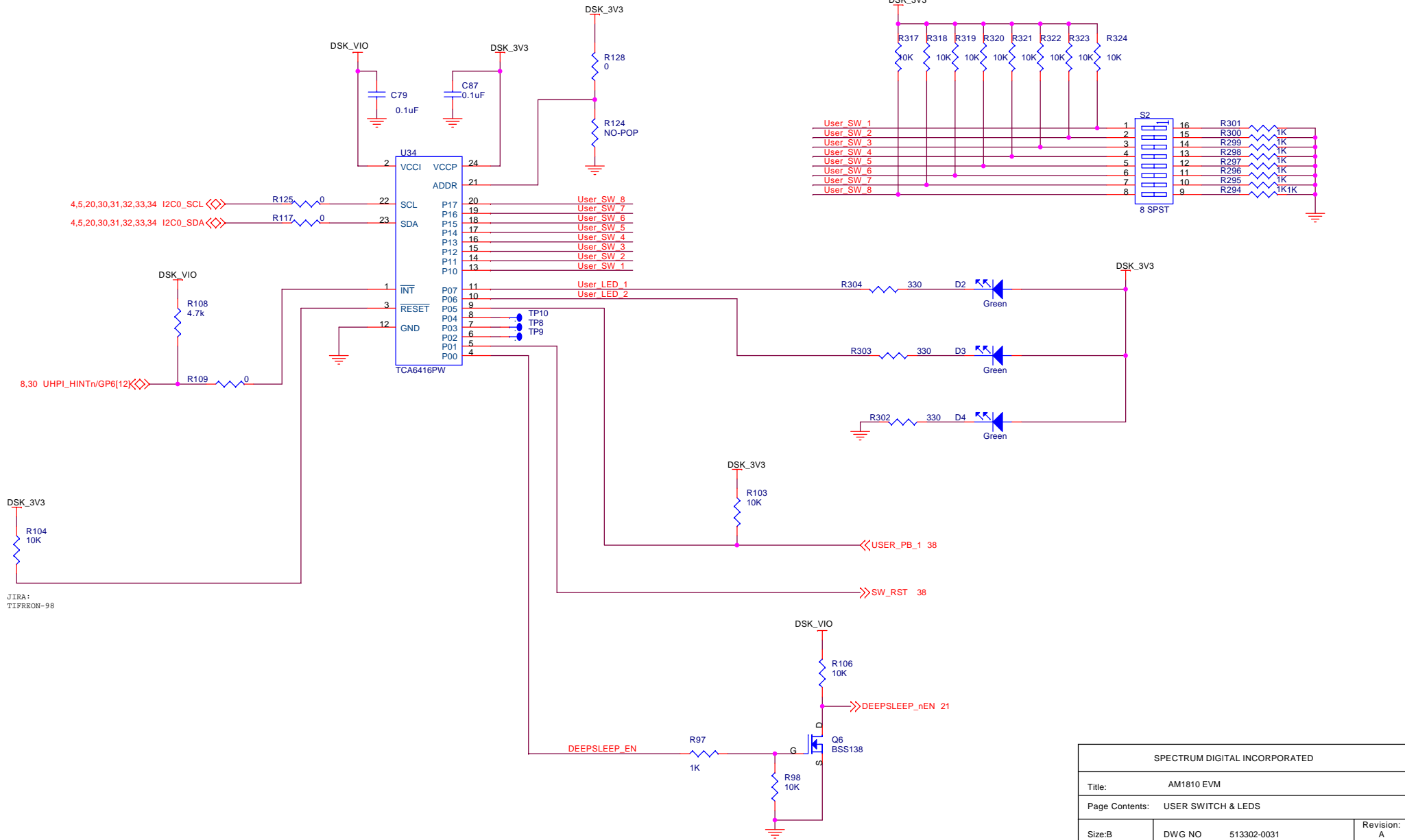


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: USB INTERFACE CONNECTORS			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 24 of	38



### IO EXPANDER

### USER DIP SWITCHES

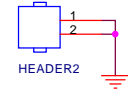


JIRA:  
TIFREON-98

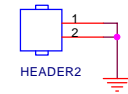
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: USER SWITCH & LEADS			
Size: B	DWG NO	513302-0031	Revision: A
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# PROBE GND CONNECTOR

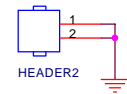
J8



J2

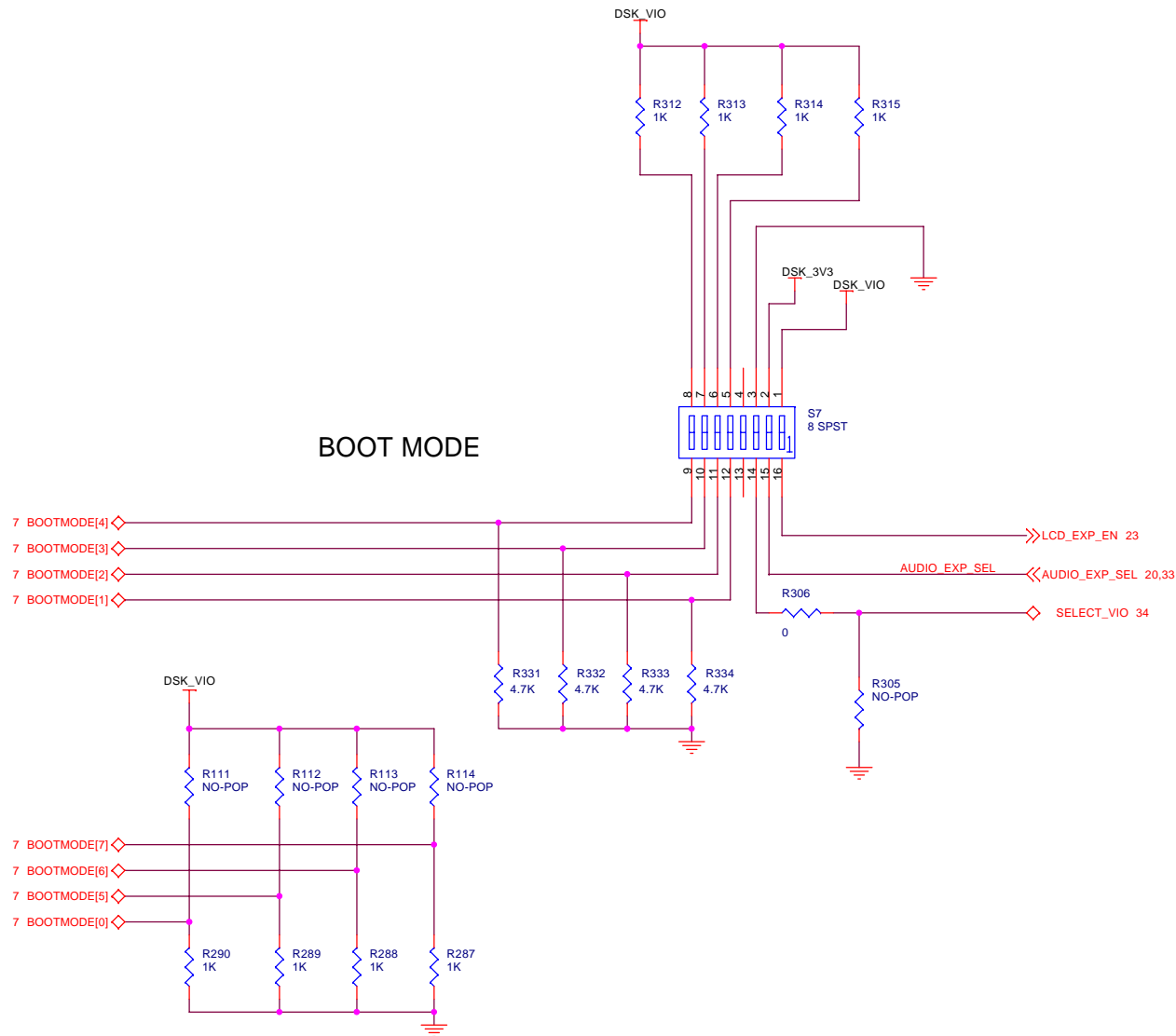


J9

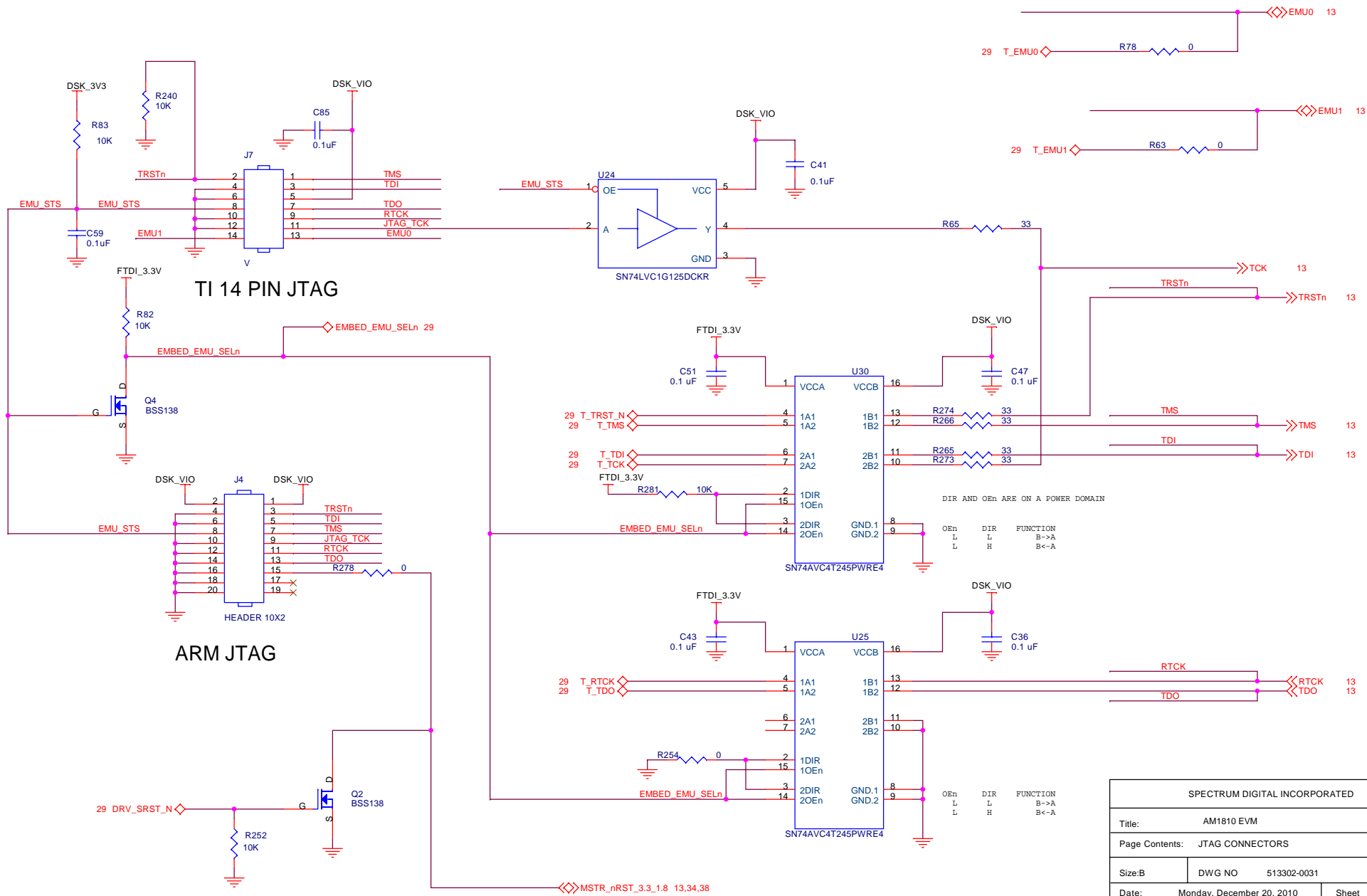


Distribute 2 pin headers around outside edges of the board

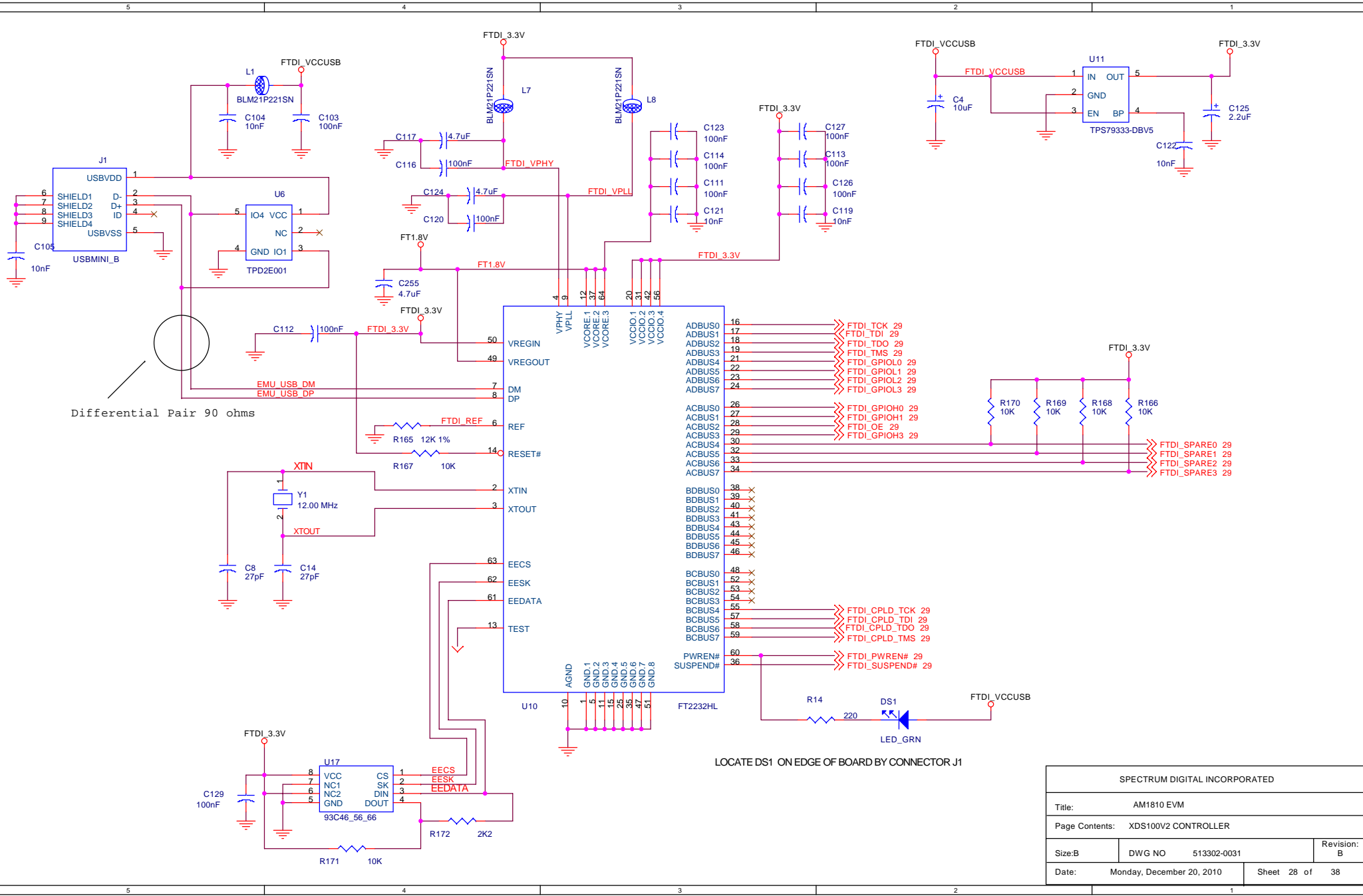
# BOOT MODE



SPECTRUM DIGITAL INCORPORATED			
Title:		AM1810 EVM	
Page Contents: BOOT SWITCH			
Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: JTAG CONNECTORS			
Size: B	DWG NO: 513302-0031	Revision: A	
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Differential Pair 90 ohms

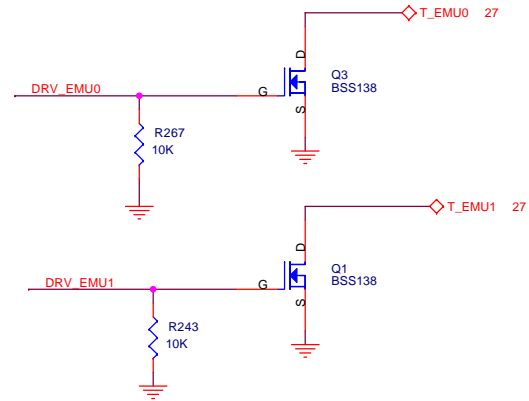
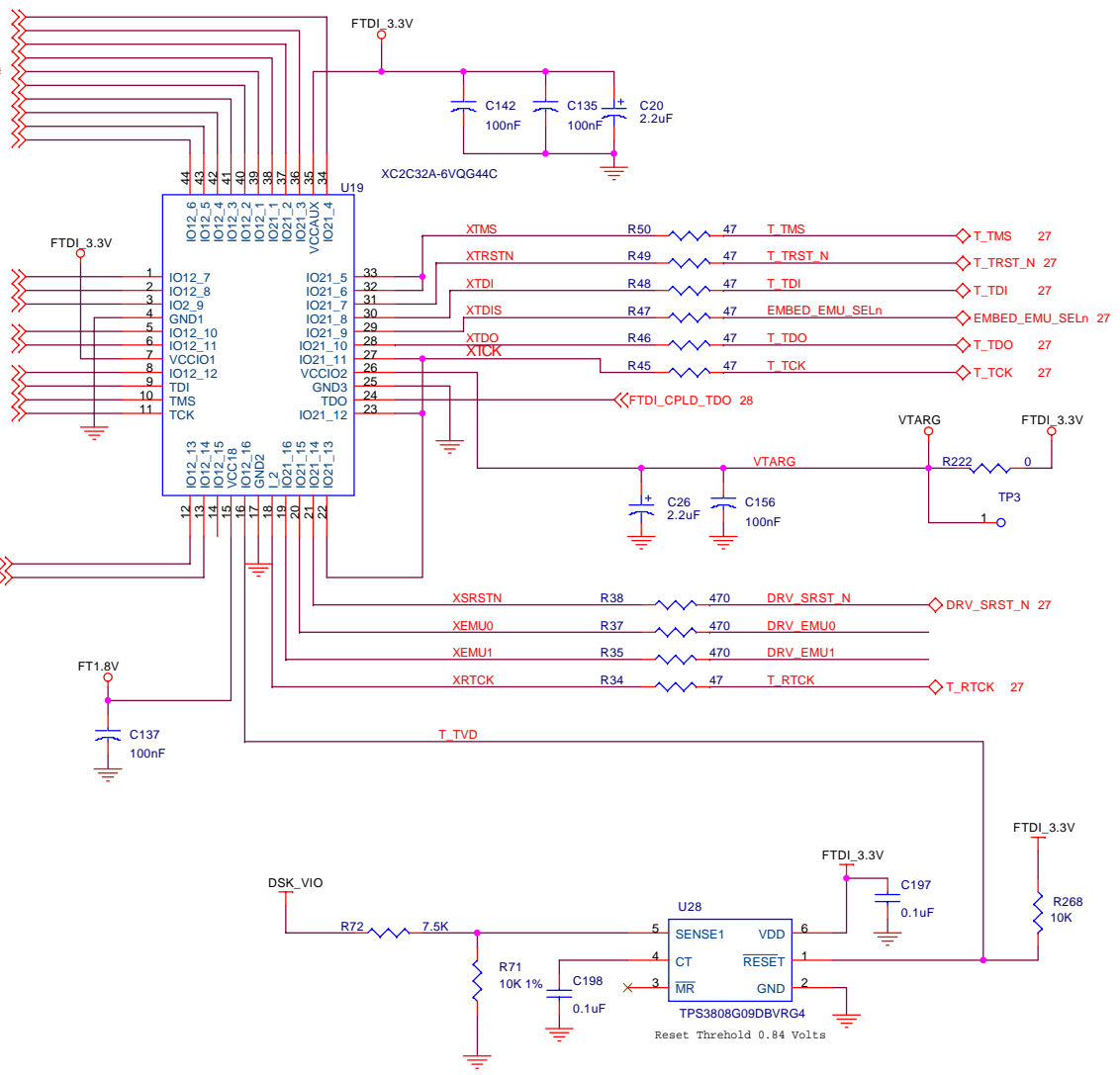
LOCATE DS1 ON EDGE OF BOARD BY CONNECTOR J1

SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: XDS100V2 CONTROLLER			
Size: B	DWG NO	513302-0031	Revision: B
Date:	Monday, December 20, 2010	Sheet 28 of	38

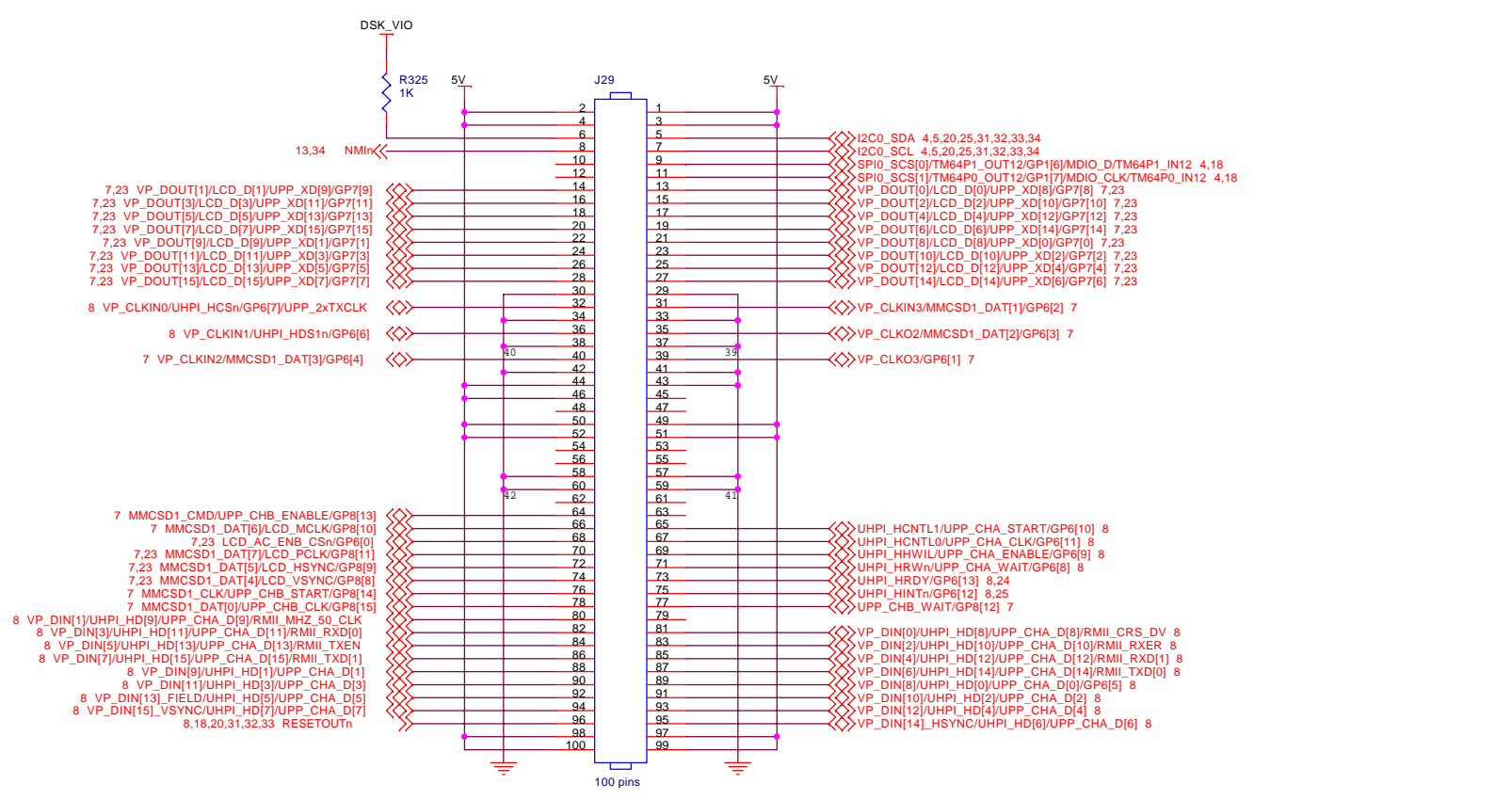
28 FTDI\_SPARE3  
 28 FTDI\_SPARE2  
 28 FTDI\_SPARE1  
 28 FTDI\_SPARE0  
 28 FTDI\_SUSPEND#  
 28 FTDI\_GPIOH3  
 28 FTDI\_OE  
 28 FTDI\_PWREN#  
 28 FTDI\_GPIOH1  
 28 FTDI\_GPIOH0

28 FTDI\_GPIOL3  
 28 FTDI\_GPIOL2  
 28 FTDI\_GPIOL1  
 28 FTDI\_GPIOL0  
 28 FTDI\_TMS  
 28 FTDI\_TDO  
 28 FTDI\_CPLD\_TDI  
 28 FTDI\_CPLD\_TMS  
 28 FTDI\_CPLD\_TCK

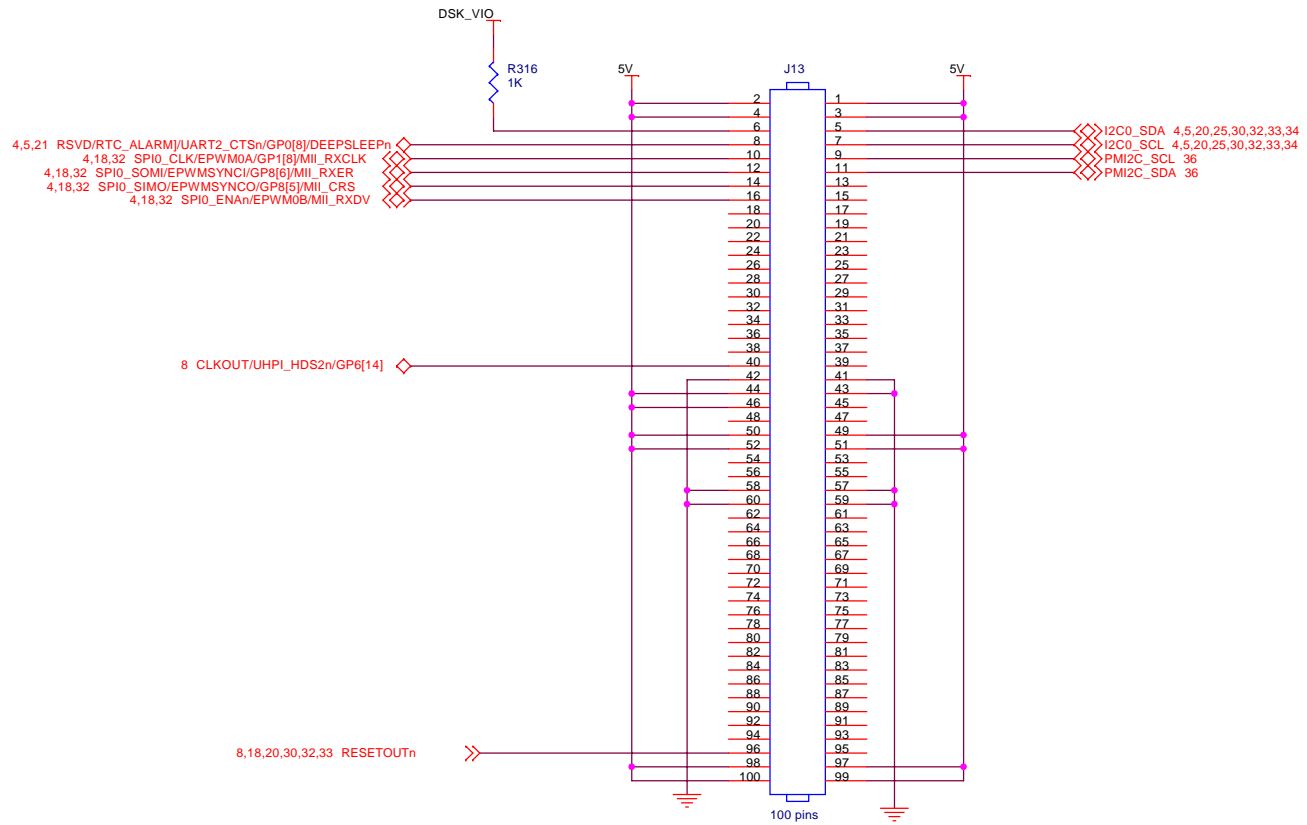
28 FTDI\_TDI  
 28 FTDI\_TCK



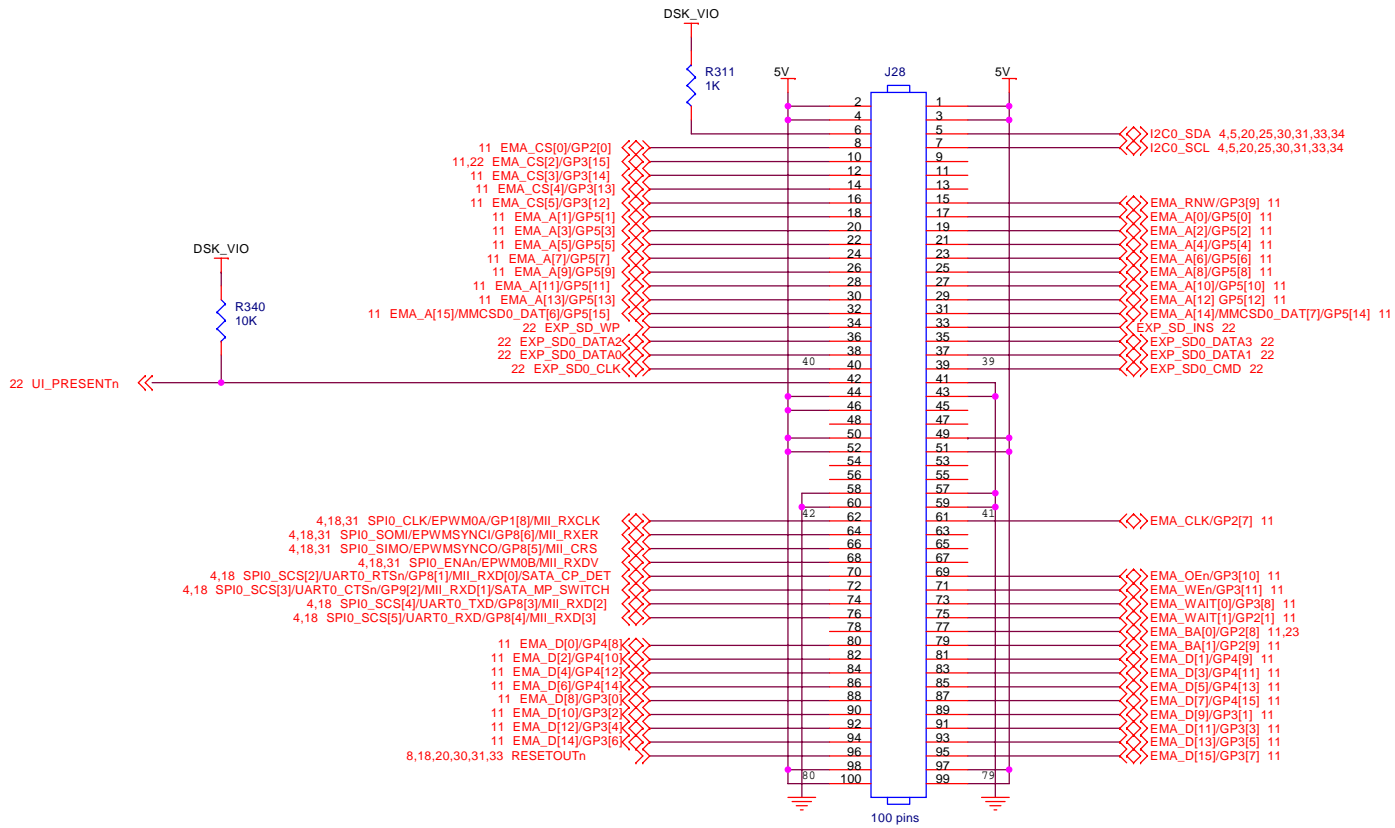
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: XDS100v2 BUFFERING			
Size: B	DWG NO	513302-0031	Revision: A
Date:	Monday, December 20, 2010	Sheet 29 of	38



SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: LCD/VPIF EXPANSION CONNECTOR			
Size: B	DWG NO: 513302-0031	Revision: A	
Date: Monday, December 20, 2010	Sheet 30 of 38		

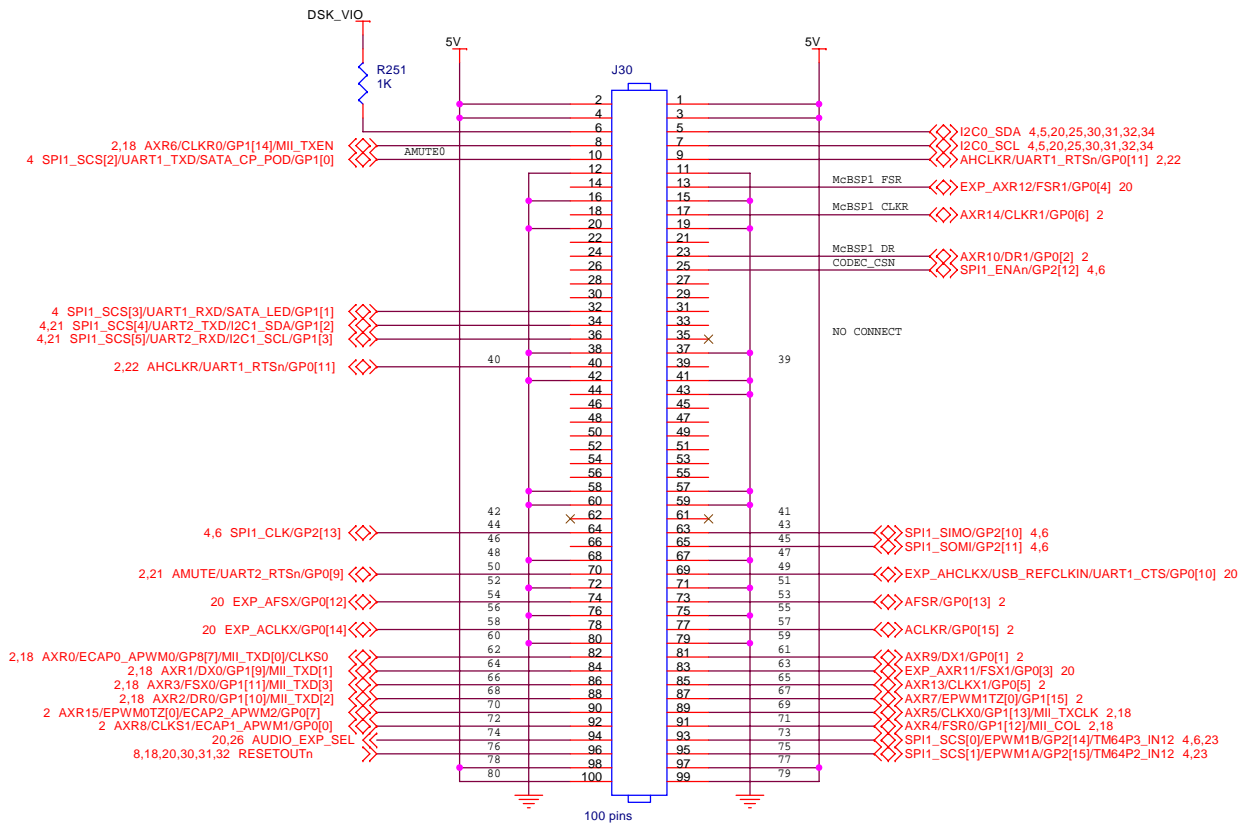


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: PMDC CONNECTOR			
Size: B	DWG NO	513302-0031	Revision: A
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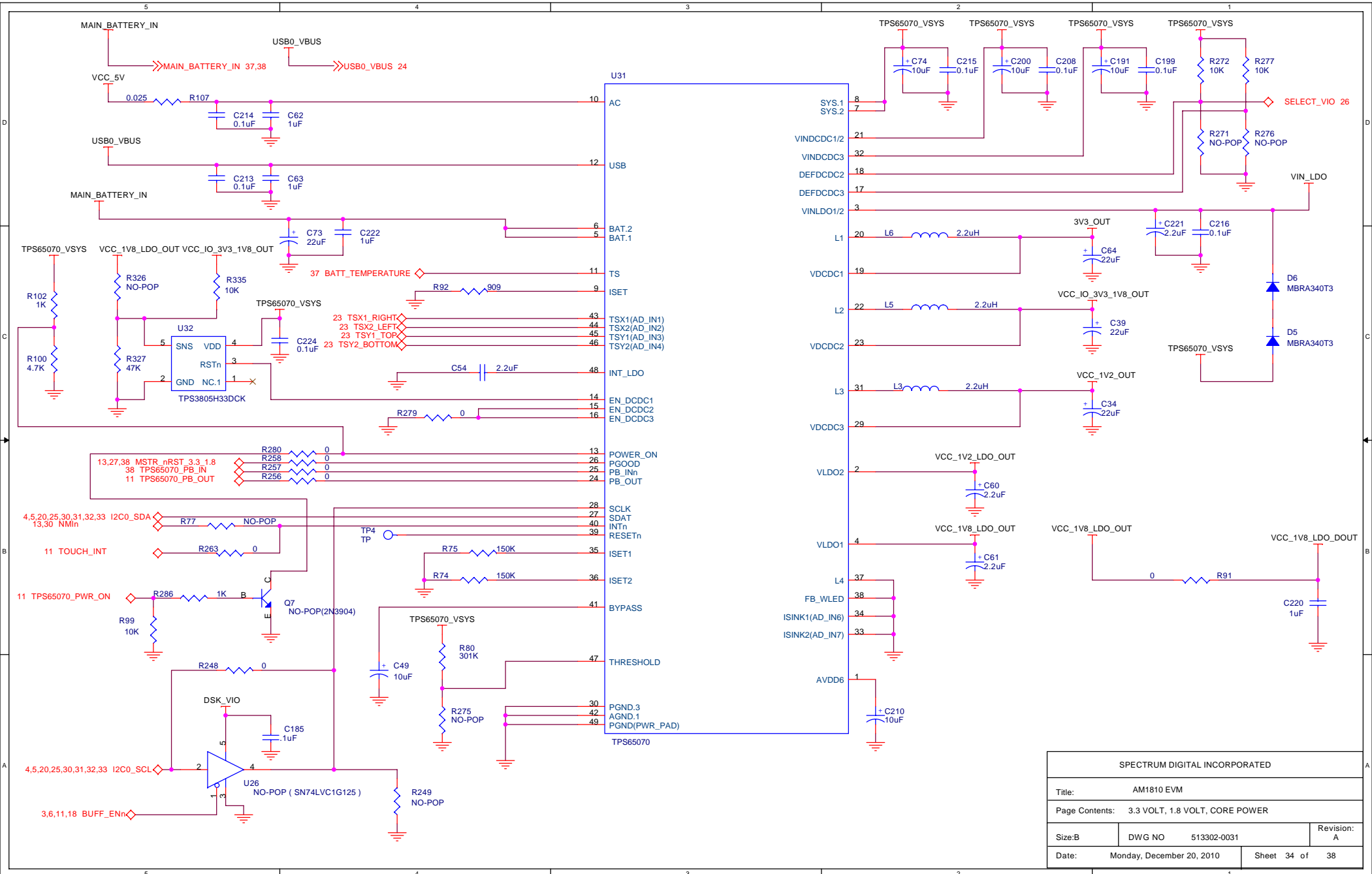


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: EMIF-A EXPANSION CONNECTOR			
Size: B	DWG NO	513302-0031	Revision: A
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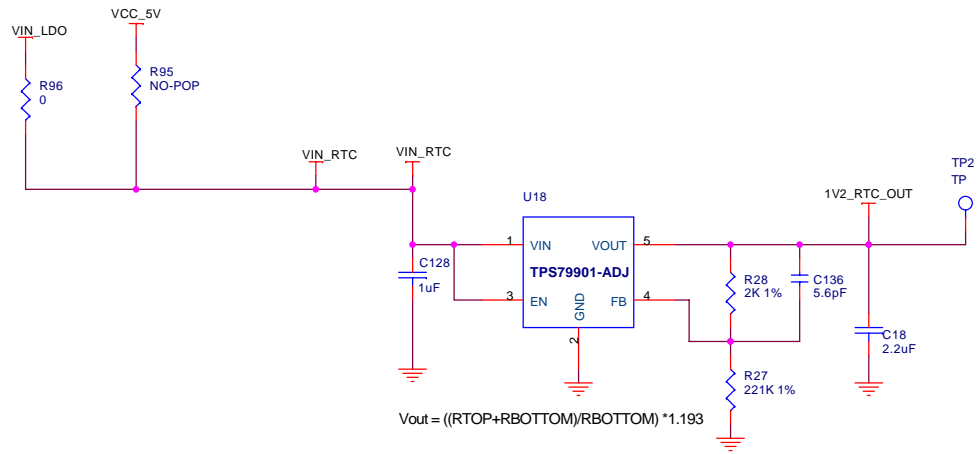




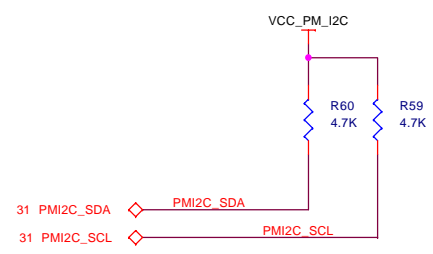
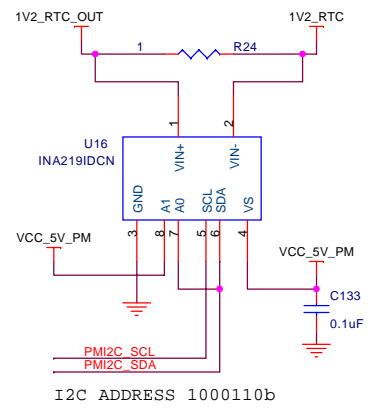
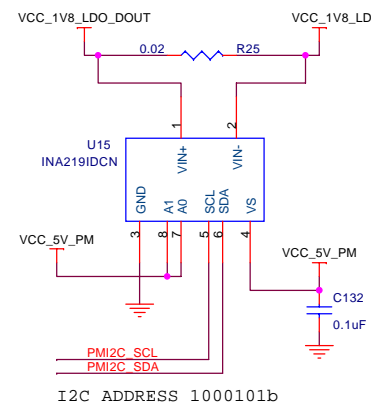
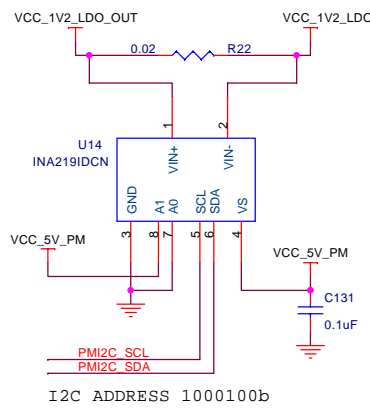
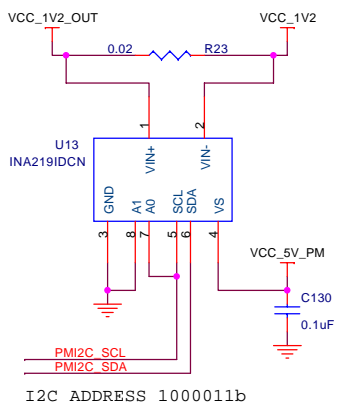
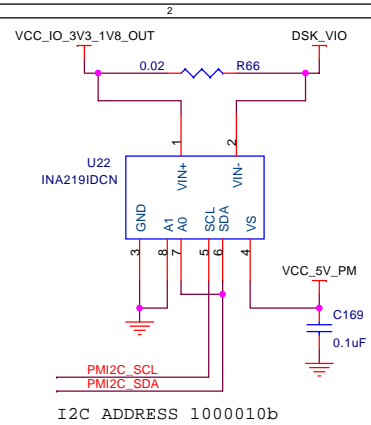
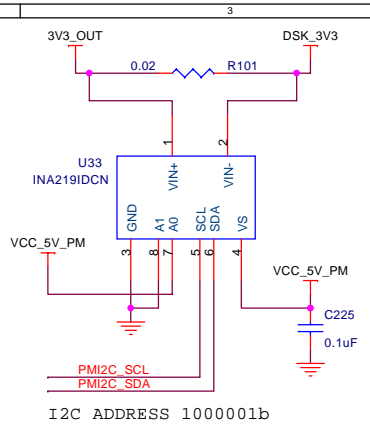
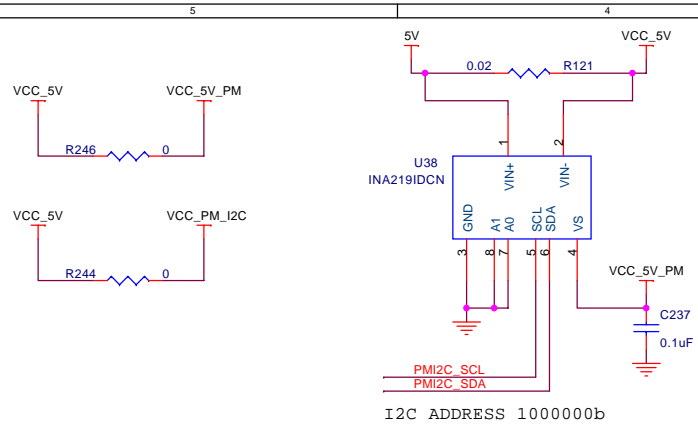
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: AUDIO EXPANSION CONNECTOR			
Size: B	DWG NO	513302-0031	Revision: A
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SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: 3.3 VOLT, 1.8 VOLT, CORE POWER			
Size: B	DWG NO	513302-0031	Revision: A
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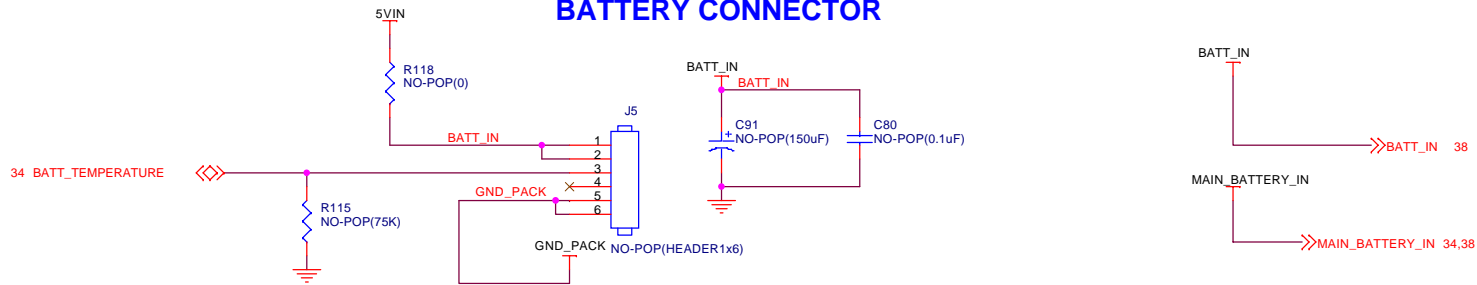


SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: RTC POWER,ETC			
Size:B	DWG NO	513302-0031	Revision: A
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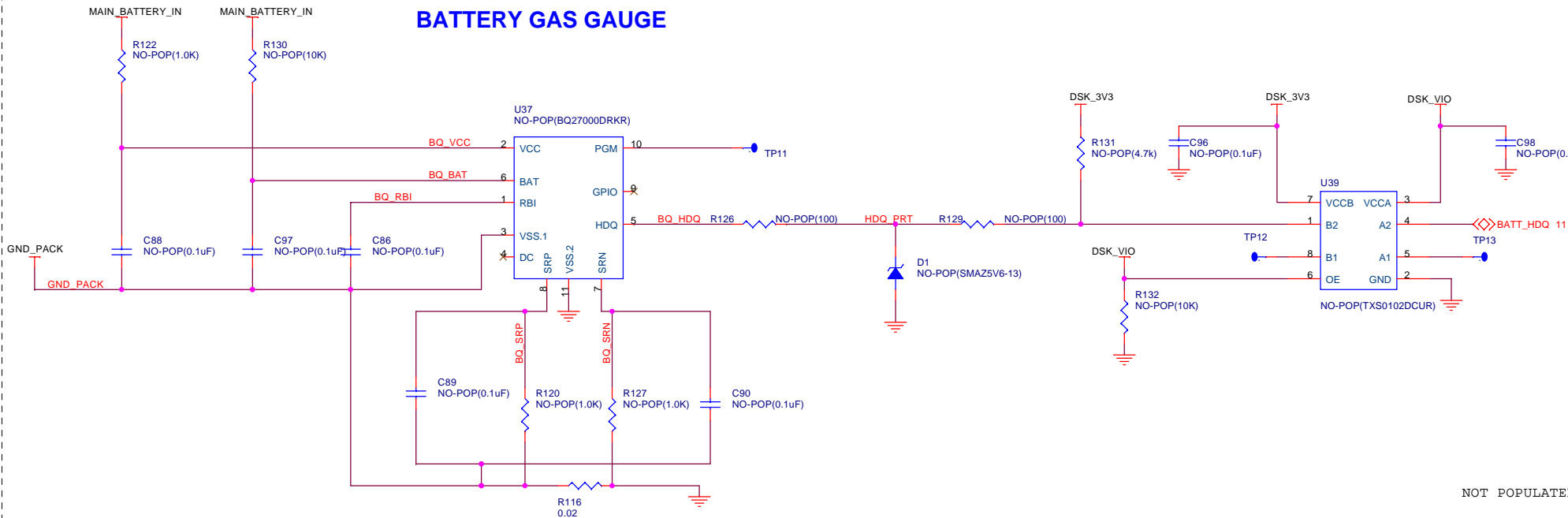
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
Page Contents: 3.3 VOLT, 1.8 VOLT, CORE POWER			
Size: B	DWG NO: 513302-0031	Revision: B	
Date: Monday, December 20, 2010	Sheet 36 of 38		

### BATTERY CONNECTOR



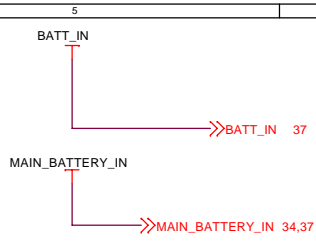
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### BATTERY GAS GAUGE

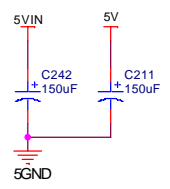
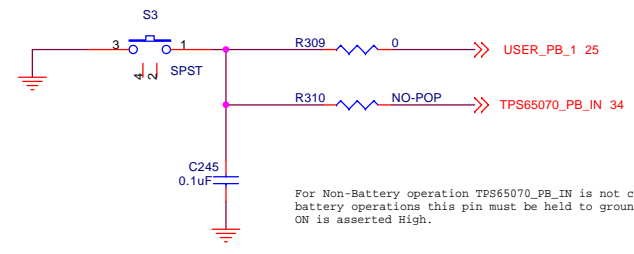
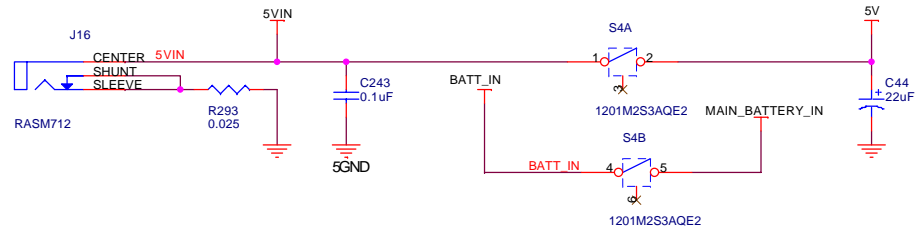


NOT POPULATED

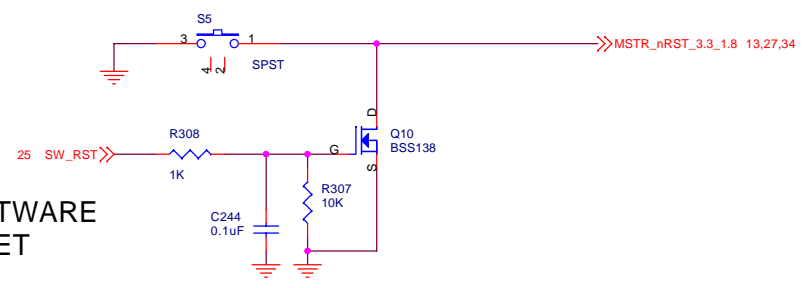
SPECTRUM DIGITAL INCORPORATED			
Title: AM1810 EVM			
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### 5V POWER INPUT



### SOFTWARE RESET



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