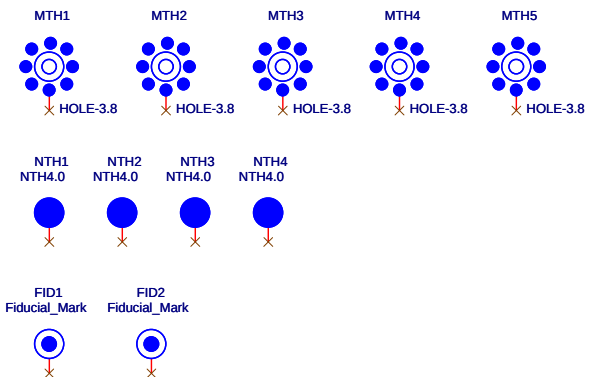
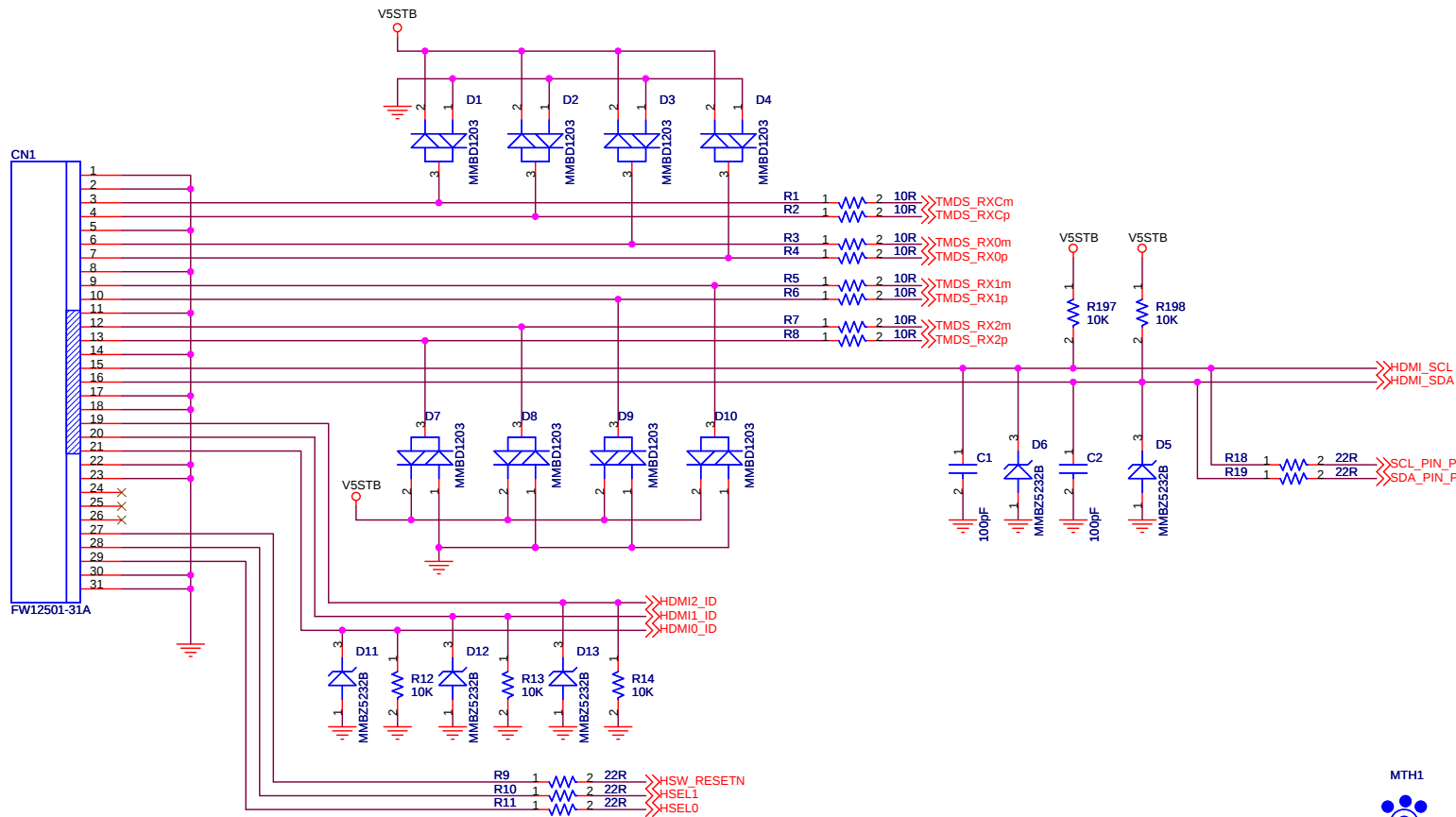


MODEL : LB506 Main Board

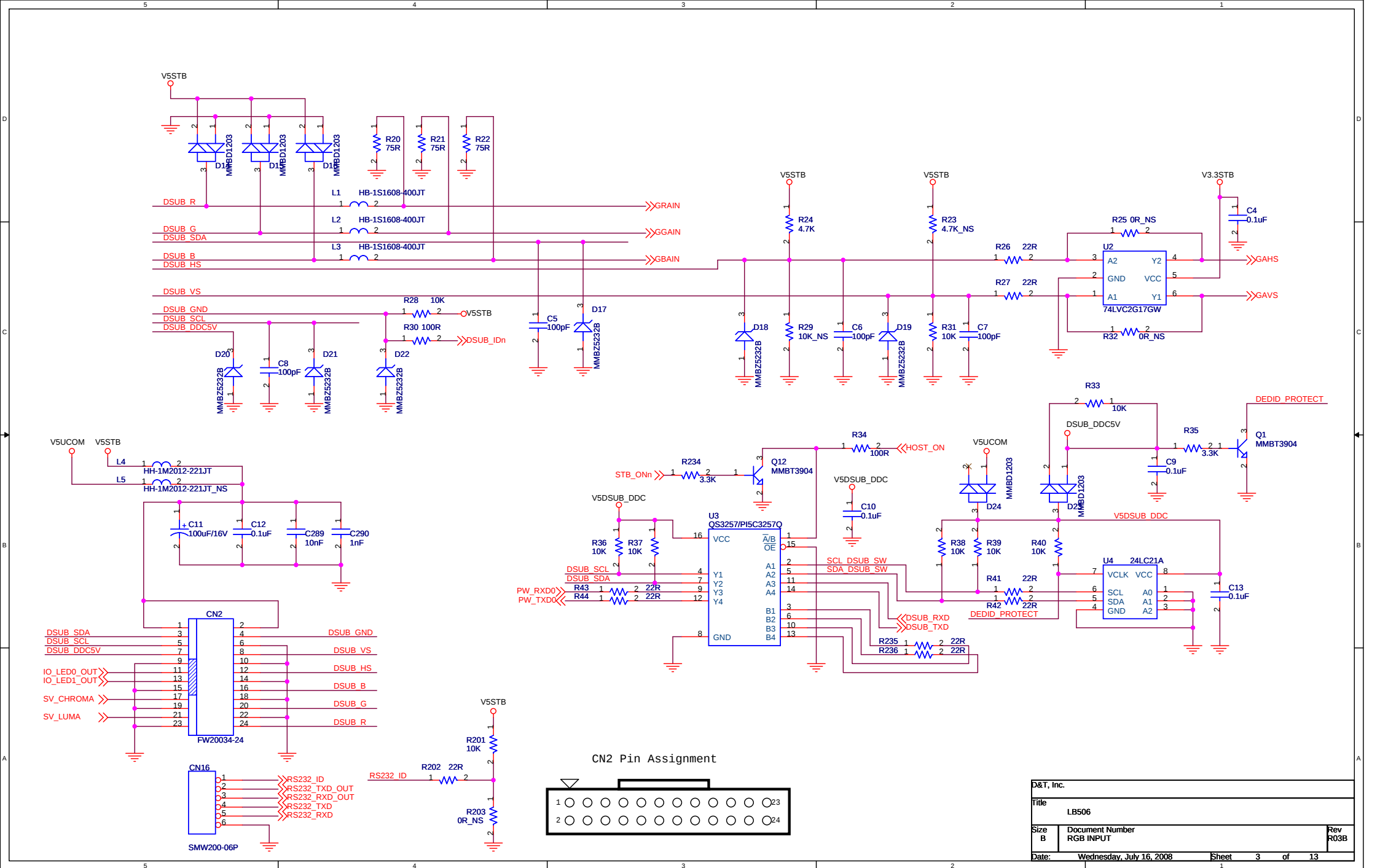
REVISION NO : R03B

| REV  | DATE       | HISTORY                                                                                                                        |
|------|------------|--------------------------------------------------------------------------------------------------------------------------------|
| R01  | 2007/10/12 | 1st Edition                                                                                                                    |
| R02  | 2008/01/31 | 2nd Edition<br>SHARP 65INCH대응, Soft off때 low power대응등,                                                                         |
| R03  | 2008/03/21 | 3rd Edition<br>RS232 통신 Out line, MICOM 통신 Line의 TX, RX상호 변경<br>Panel option관련, Power 관련부품의 미삽 및 삽입<br>MICOM의 Clock관련 변경       |
| R03A | 2008/06/18 | 1) Indicator Power 분리 (Sleep Mode)<br>2) Mouting Hole 추가<br>3) C254 : Dip type OS-CON cap으로 변경<br>4) uCOM에서 SMPS power control |
| R03B | 2008/07/16 | 1) EMI 관련 Indicator Power 회로 수정<br>2) RS232 시정 수 변경<br>3) uCOM에서 OE 신호 control                                                 |
|      |            |                                                                                                                                |

| APPROVAL |                    |                 |
|----------|--------------------|-----------------|
| DESIGNER | PROJECT<br>MANAGER | R&D<br>DIRECTOR |
|          |                    |                 |
|          |                    |                 |

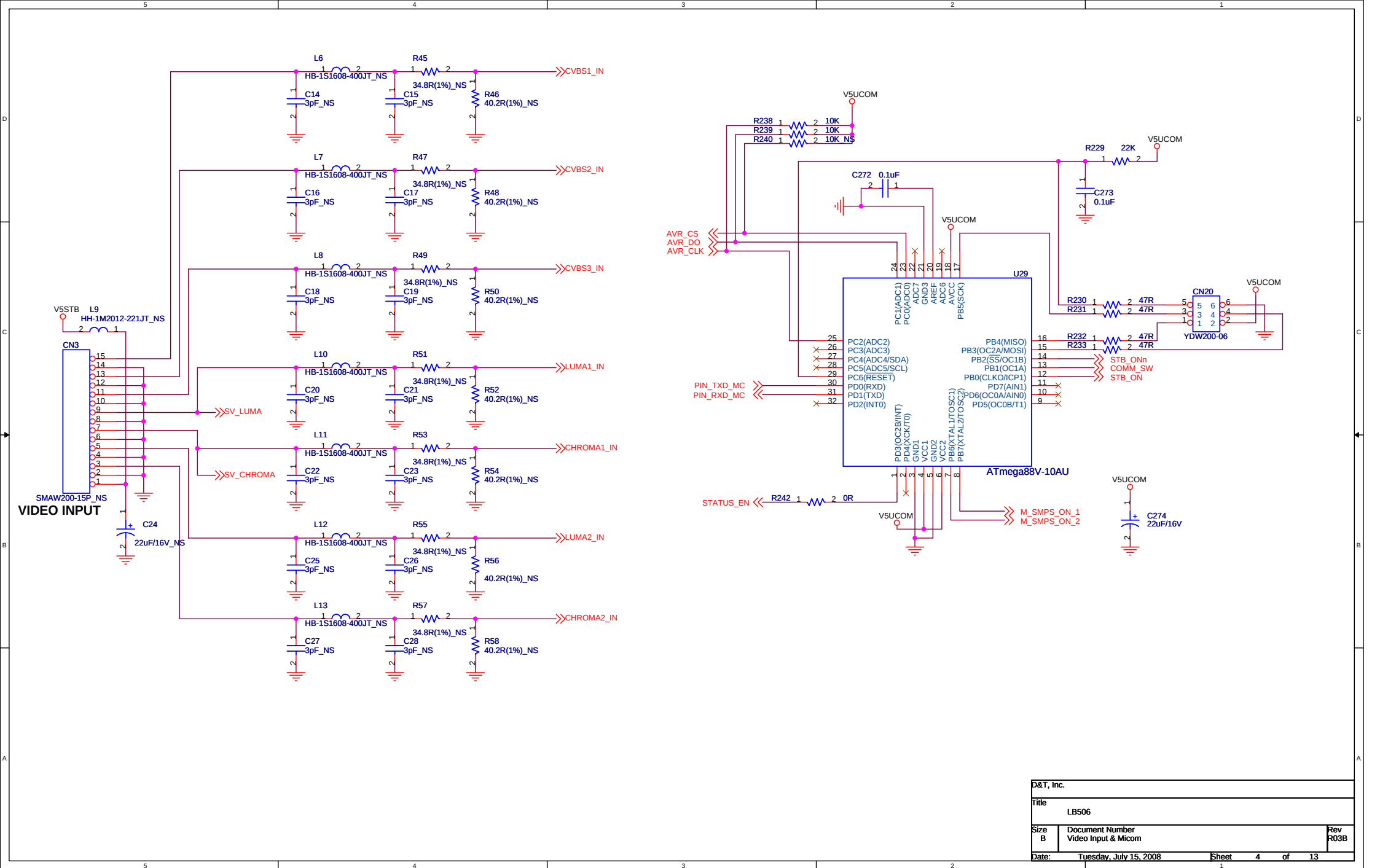


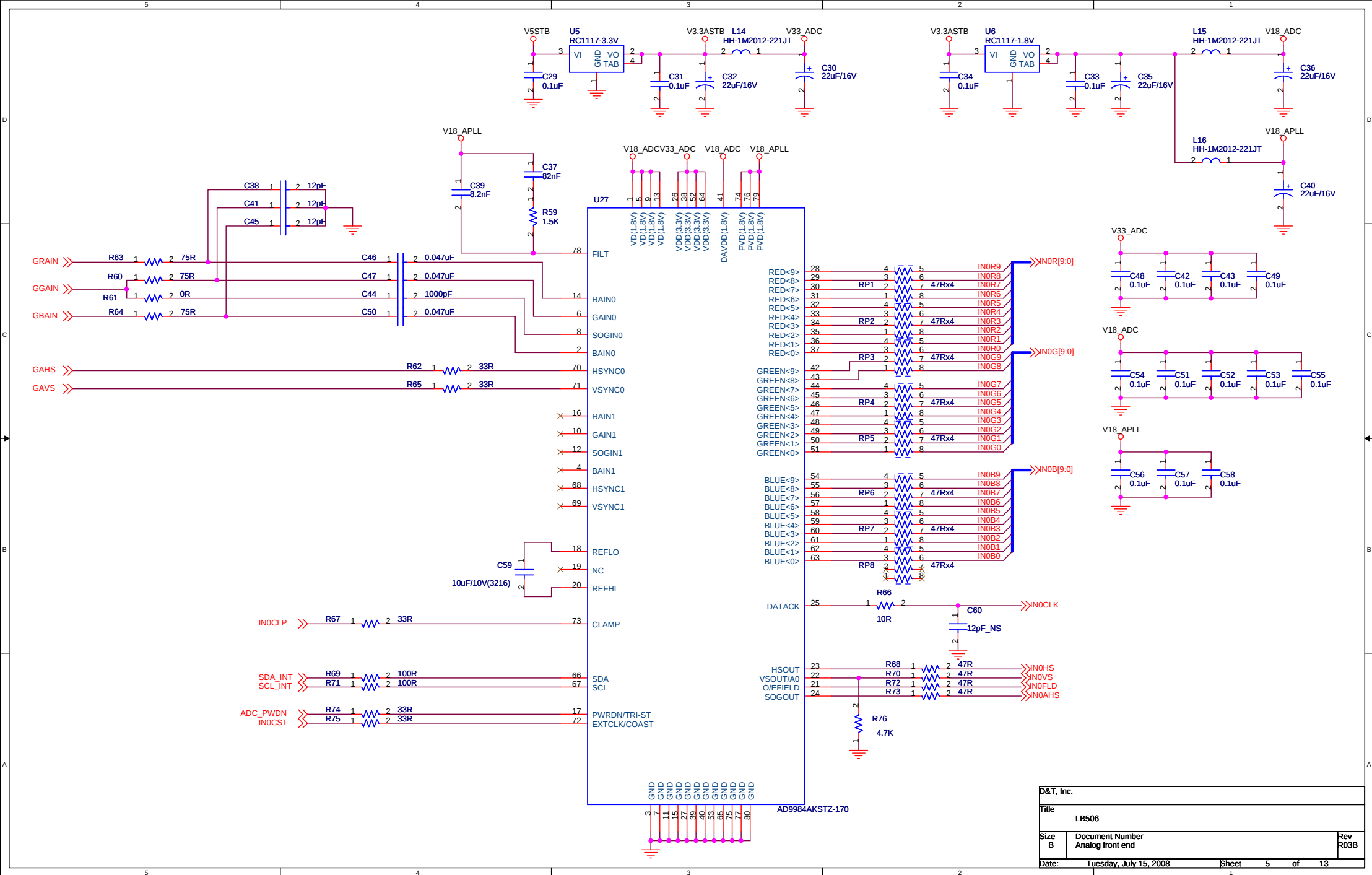
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|-----------|------------------------|---------------|
| D&T, Inc. |                        |               |
| Title     |                        |               |
| LB506     |                        |               |
| Size      | Document Number        | Rev           |
| B         | DVI Input              | R03B          |
| Date:     | Tuesday, July 15, 2008 | Sheet 2 of 13 |

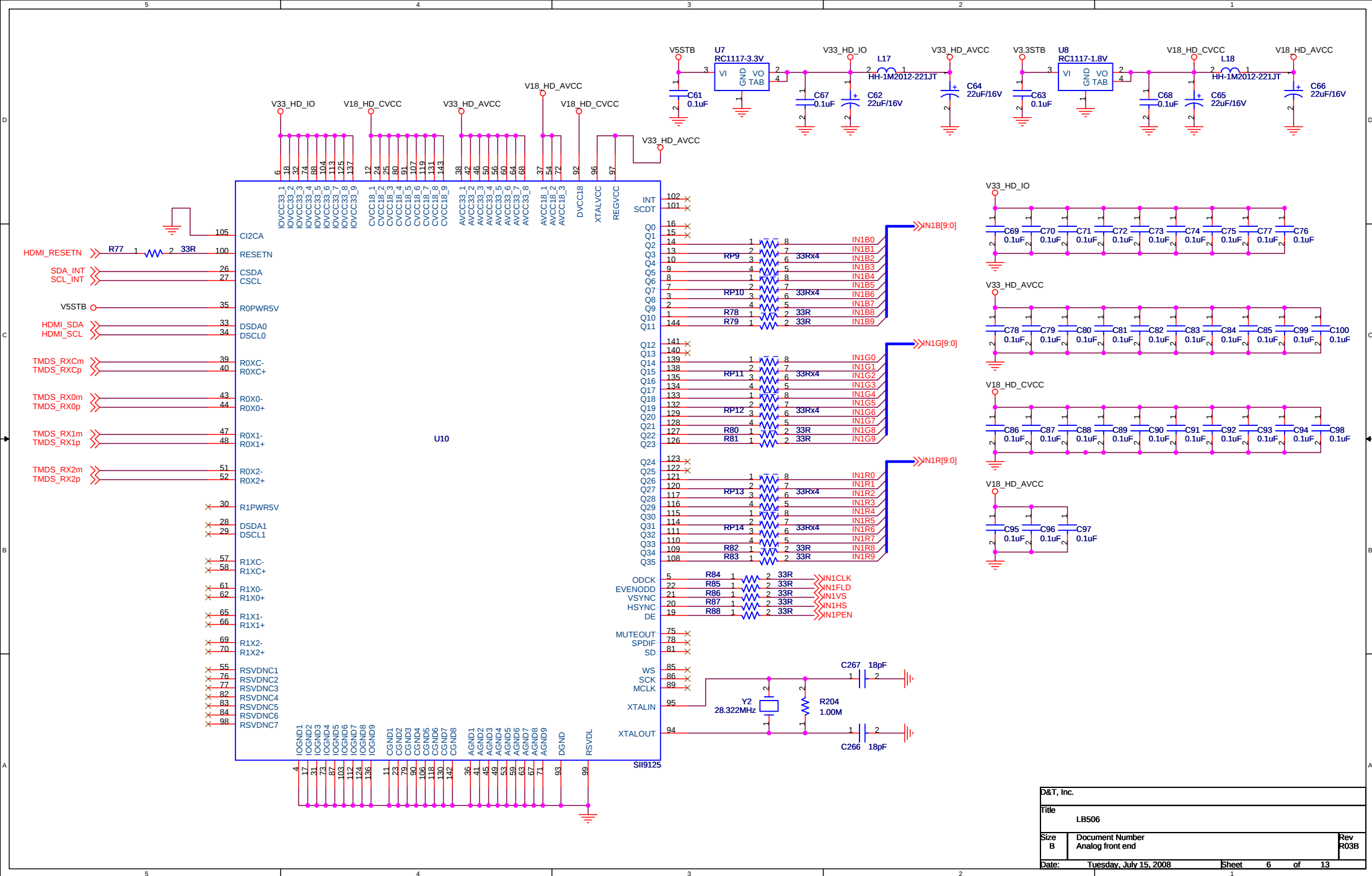


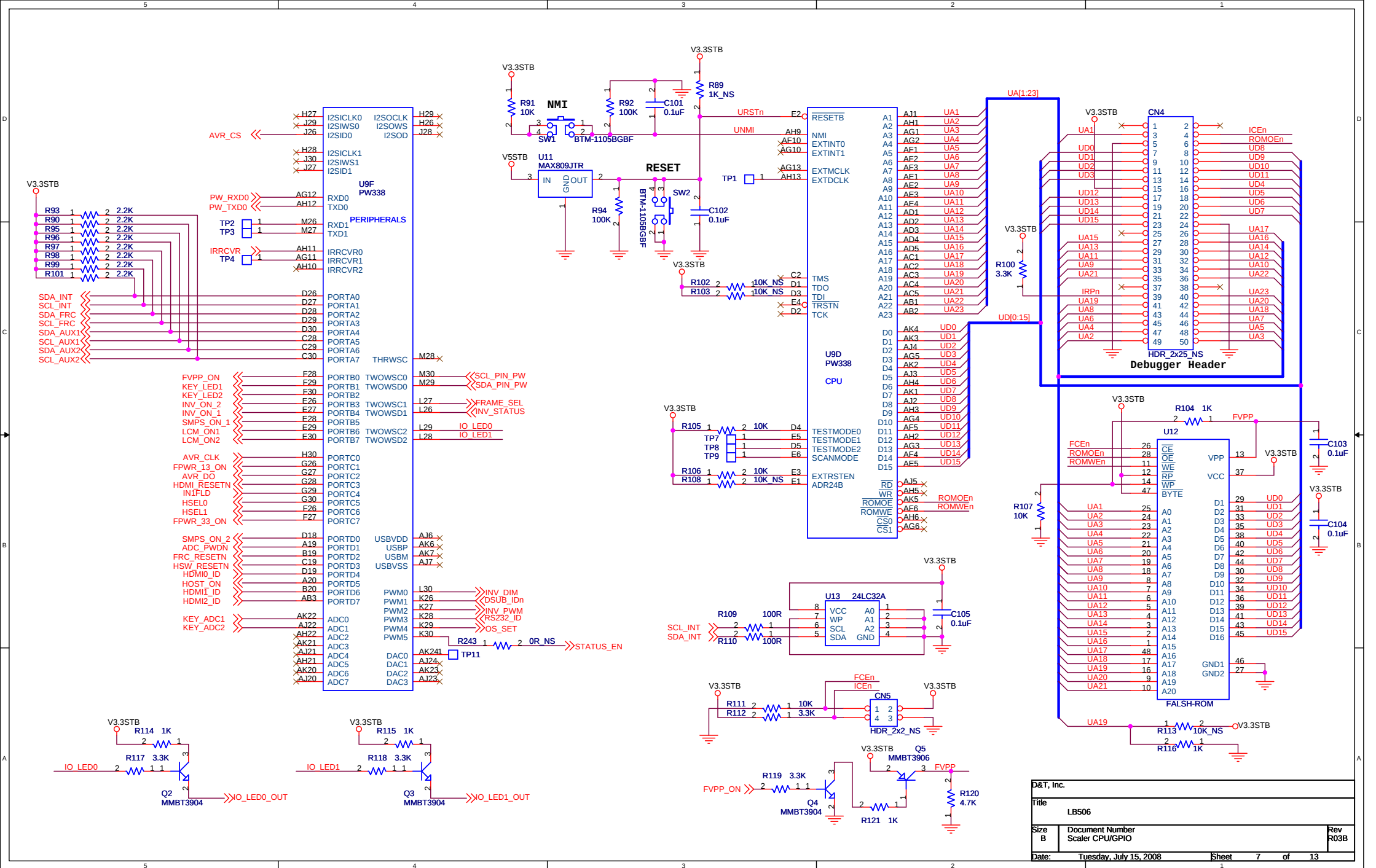
| CN2 Pin Assignment |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| 1                  | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 23 |
| 2                  | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 24 |

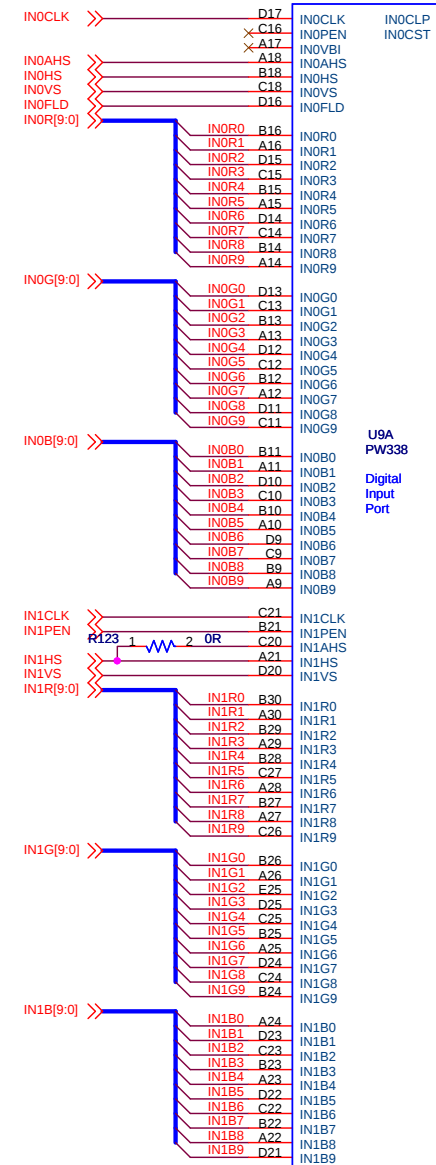
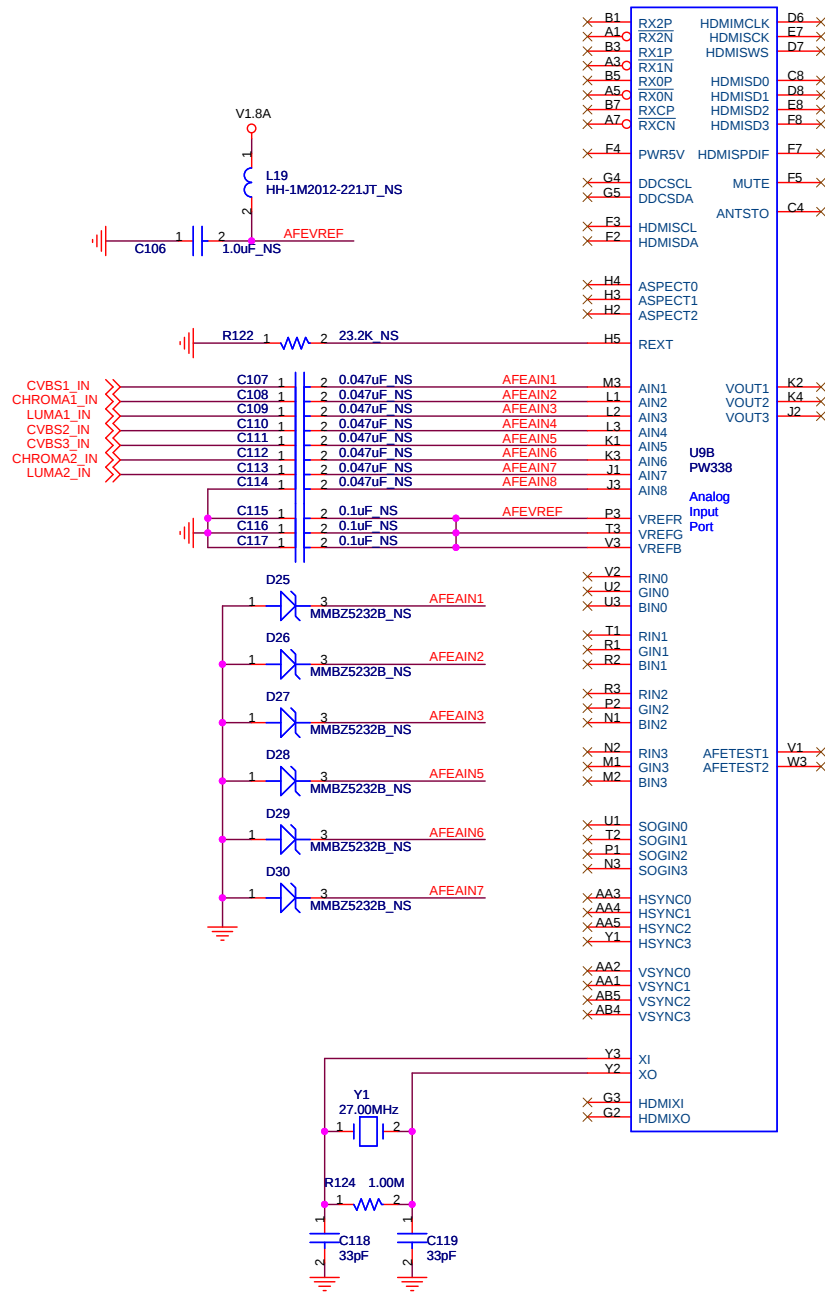
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| D&T, Inc.                      |                           |          |
| Title LB506                    |                           |          |
| Size B                         | Document Number RGB INPUT | Rev R03B |
| Date: Wednesday, July 16, 2008 | Sheet 3                   | of 13    |











D&T, Inc.

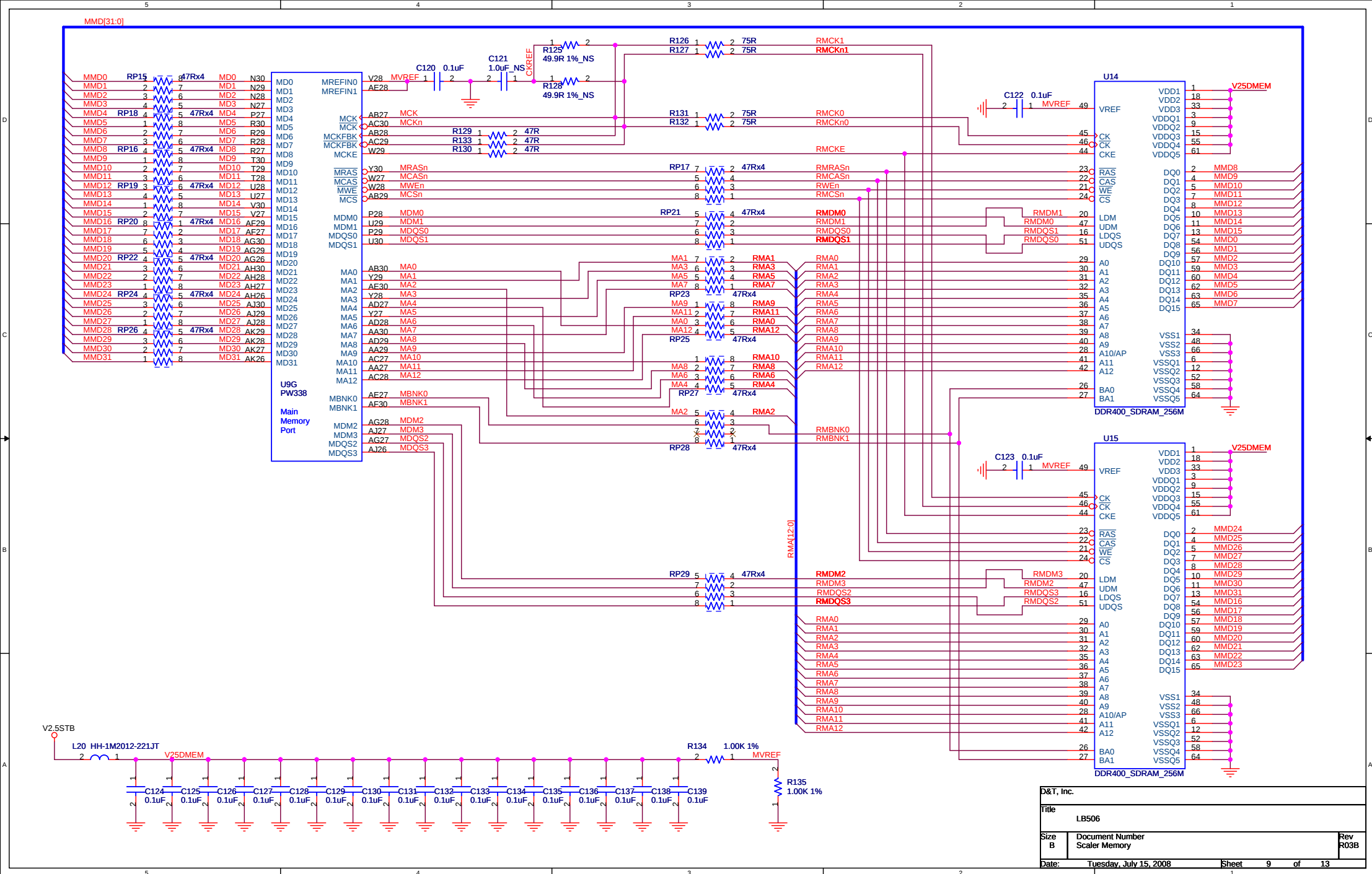
Title  
LB506

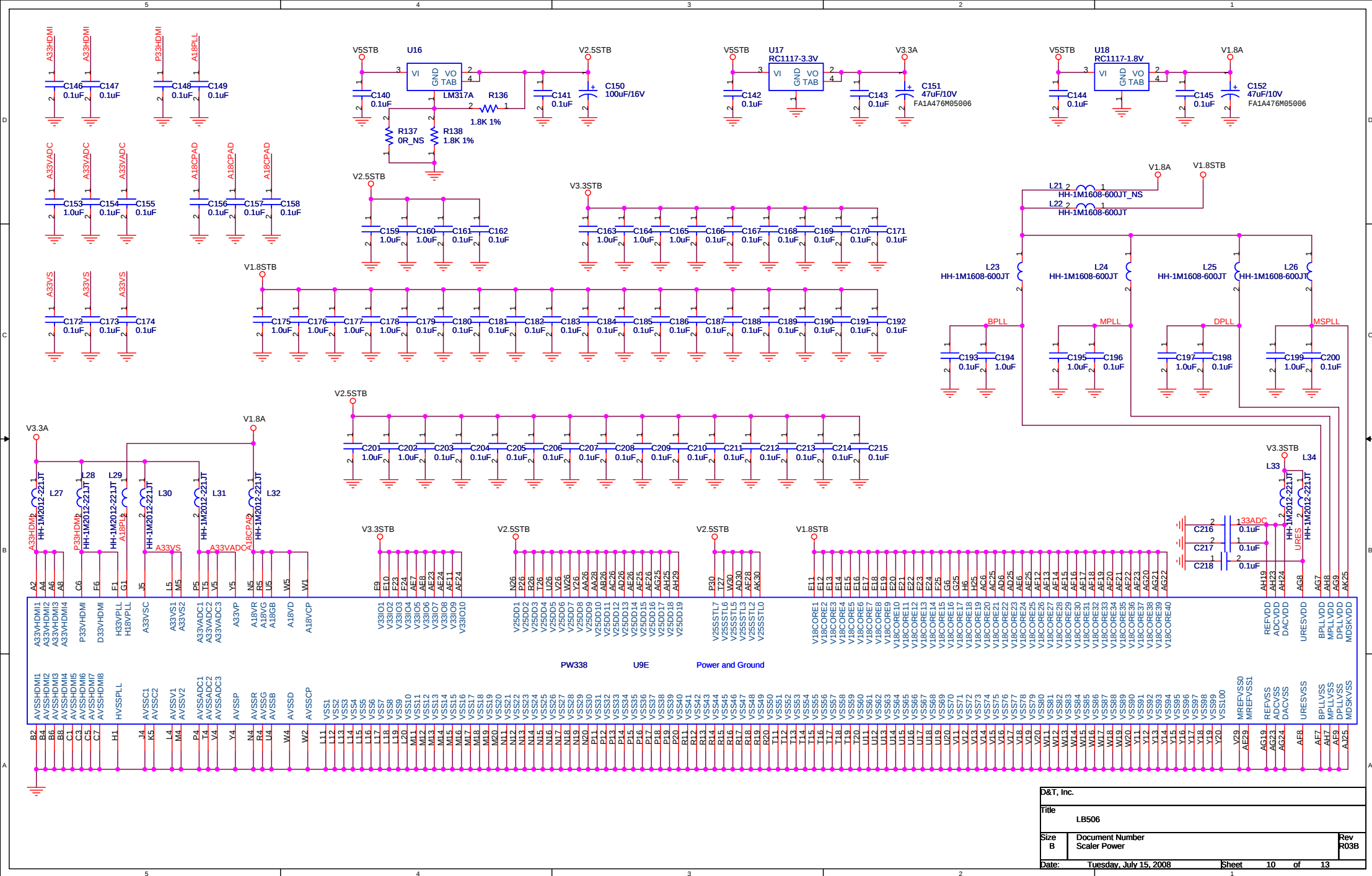
Size  
B Document Number  
Scaler Front End (FE)

Date: Tuesday, July 15, 2008

Sheet 8 of 13

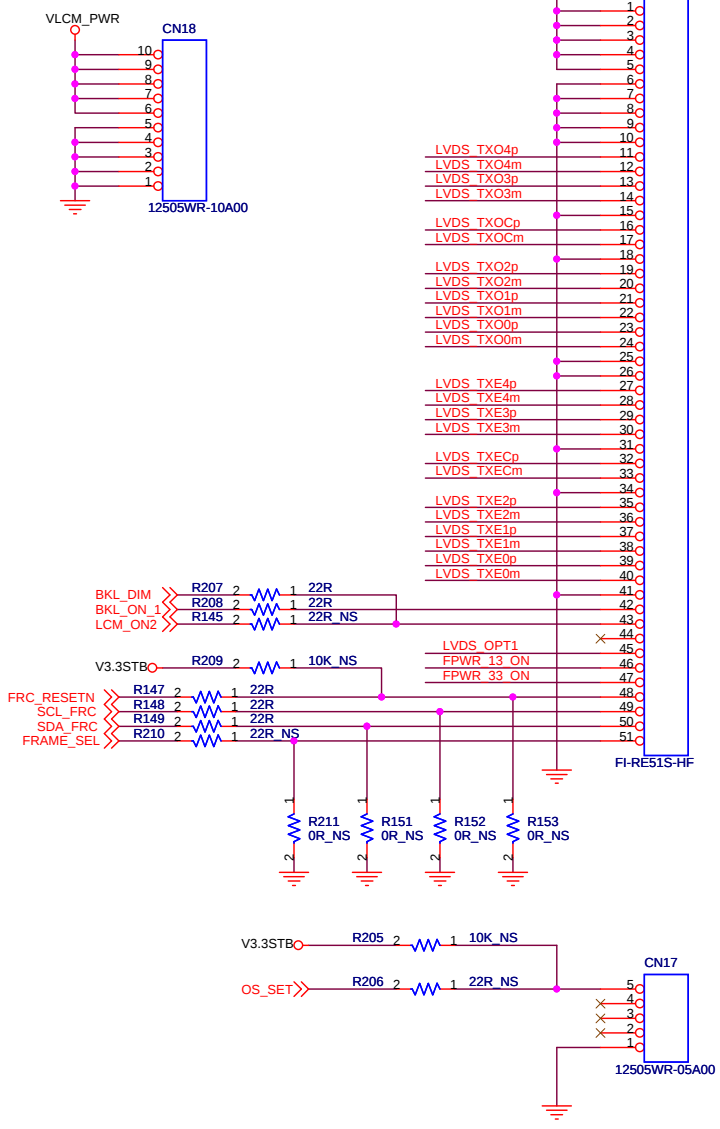
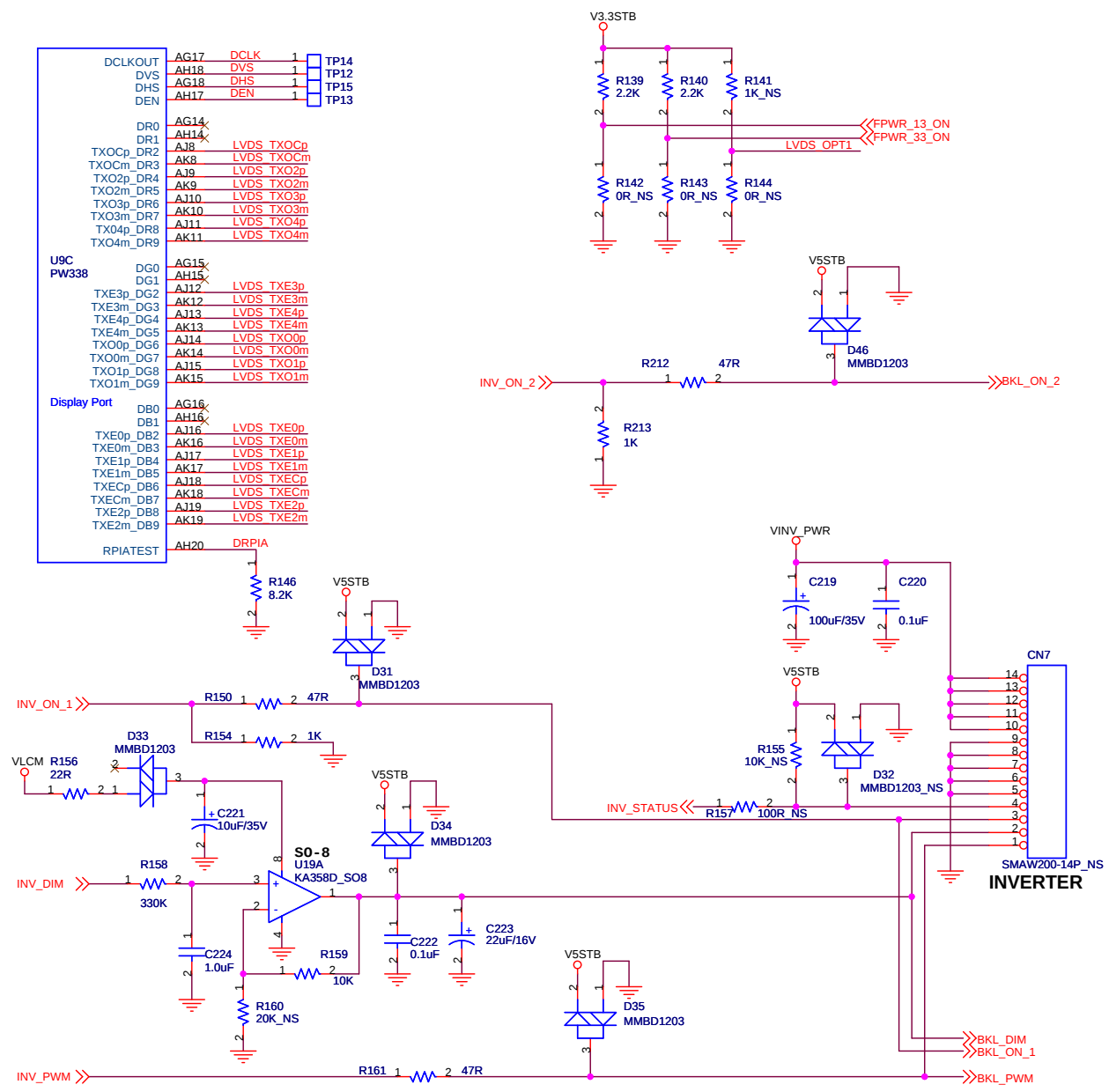
Rev  
R03B





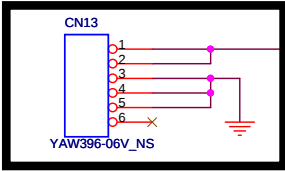
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| D&T, Inc. |                        |       |          |
| Title     |                        |       |          |
| LB506     |                        |       |          |
| Size      | Document Number        |       | Rev      |
| B         | Scaler Power           |       | 003B     |
| Date:     | Tuesday, July 15, 2008 | Sheet | 10 of 13 |

|              |      |            |   |      |
|--------------|------|------------|---|------|
| DCLKOUT      | AG17 | DCLK       | 1 | TP14 |
| DVS          | AH18 | DVS        | 1 | TP12 |
| DHS          | AG18 | DHS        | 1 | TP15 |
| DEN          | AH17 | DEN        | 1 | TP13 |
| DR0          | AG14 |            |   |      |
| DR1          | AH14 |            |   |      |
| TXOCp_DR2    | AJ8  | LVDS TXOCp |   |      |
| TXOCm_DR3    | AK8  | LVDS TXOCm |   |      |
| TXO2p_DR4    | AJ9  | LVDS TXO2p |   |      |
| TXO2m_DR5    | AK9  | LVDS TXO2m |   |      |
| TXO3p_DR6    | AJ10 | LVDS TXO3p |   |      |
| TXO3m_DR7    | AK10 | LVDS TXO3m |   |      |
| TXO4p_DR8    | AJ11 | LVDS TXO4p |   |      |
| TXO4m_DR9    | AK11 | LVDS TXO4m |   |      |
| U9C          | AG15 |            |   |      |
| PW338        | AH15 |            |   |      |
| TXE3p_DG2    | AJ12 | LVDS TXE3p |   |      |
| TXE3m_DG3    | AK12 | LVDS TXE3m |   |      |
| TXE4p_DG4    | AJ13 | LVDS TXE4p |   |      |
| TXE4m_DG5    | AK13 | LVDS TXE4m |   |      |
| TXO0p_DG6    | AJ14 | LVDS TXO0p |   |      |
| TXO0m_DG7    | AK14 | LVDS TXO0m |   |      |
| TXO1p_DG8    | AJ15 | LVDS TXO1p |   |      |
| TXO1m_DG9    | AK15 | LVDS TXO1m |   |      |
| Display Port | DB0  |            |   |      |
|              | DB1  |            |   |      |
| TXE0p_DB2    | AJ16 | LVDS TXE0p |   |      |
| TXE0m_DB3    | AK16 | LVDS TXE0m |   |      |
| TXE1p_DB4    | AJ17 | LVDS TXE1p |   |      |
| TXE1m_DB5    | AK17 | LVDS TXE1m |   |      |
| TXECp_DB6    | AJ18 | LVDS TXECp |   |      |
| TXECm_DB7    | AK18 | LVDS TXECm |   |      |
| TXE2p_DB8    | AJ19 | LVDS TXE2p |   |      |
| TXE2m_DB9    | AK19 | LVDS TXE2m |   |      |
| RPIATEST     | AH20 | DRPIA      |   |      |



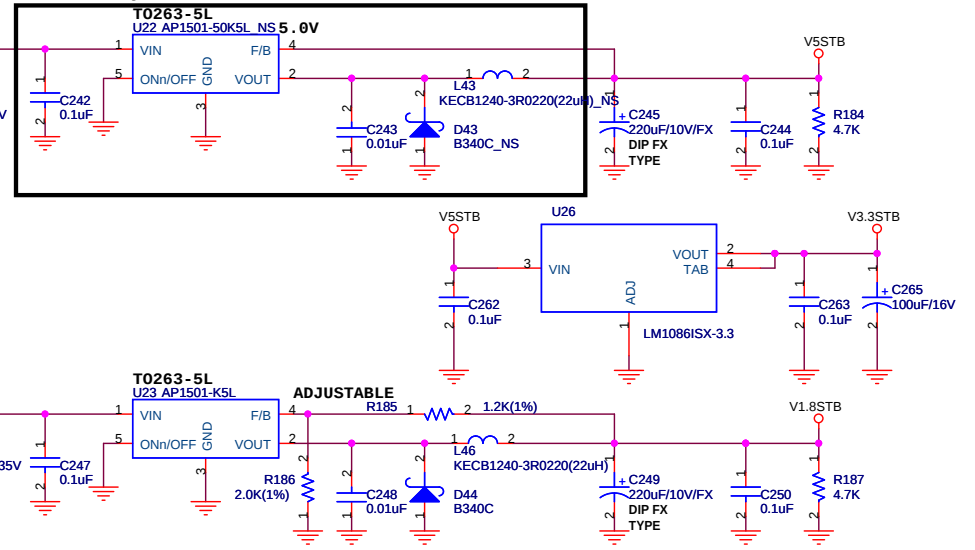


# for AC-DC ADAPTER

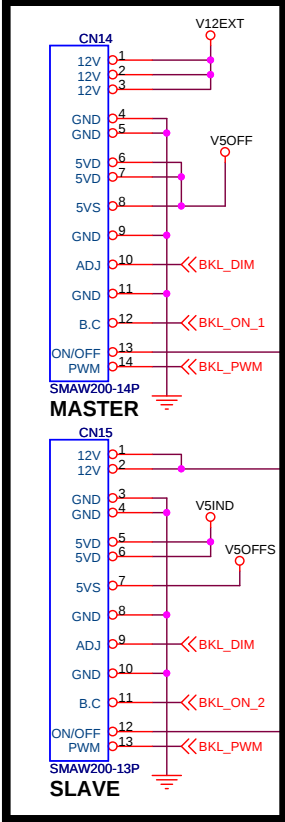


# Standby 5V Block

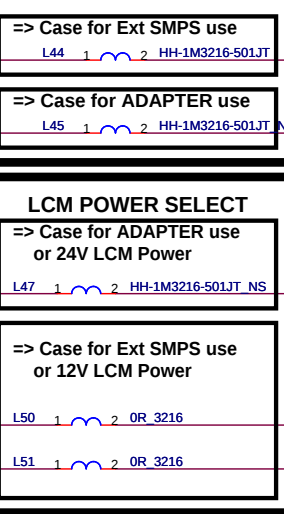
# No need case for SMPS use



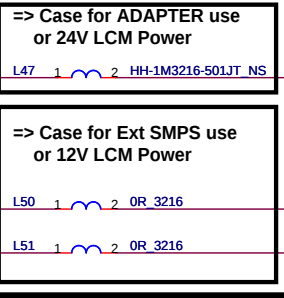
# for EXTERNAL SMPS



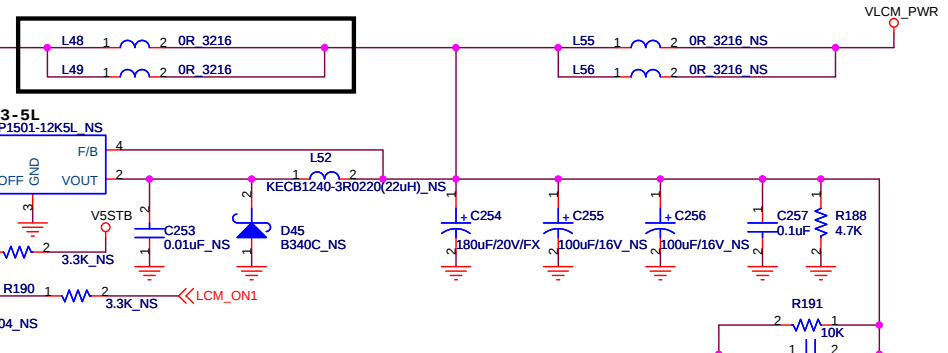
# STANDBY POWER SELECT



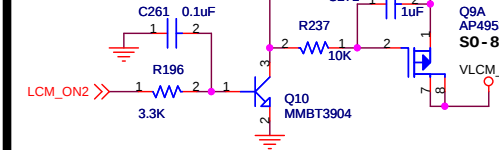
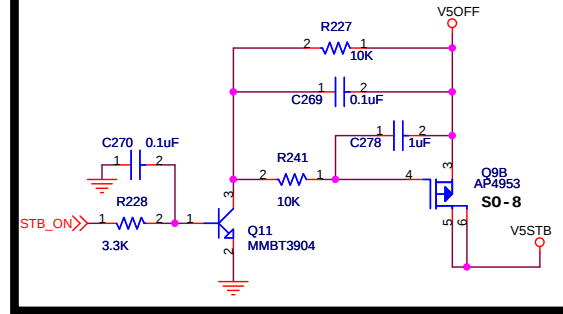
# LCM POWER SELECT



# LCM POWER BYPASS



# Don't stuff all component for 42"



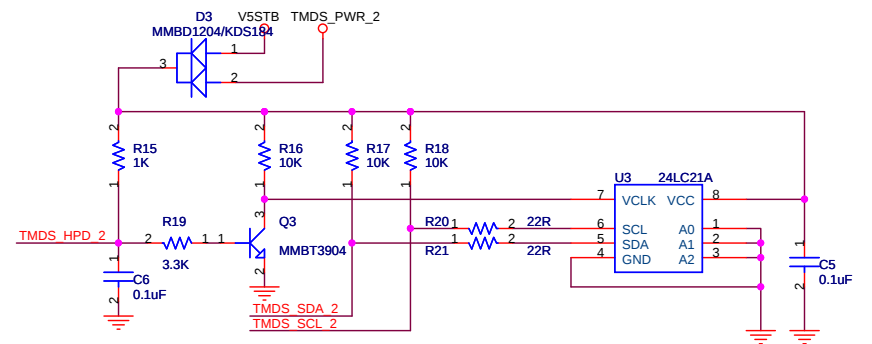
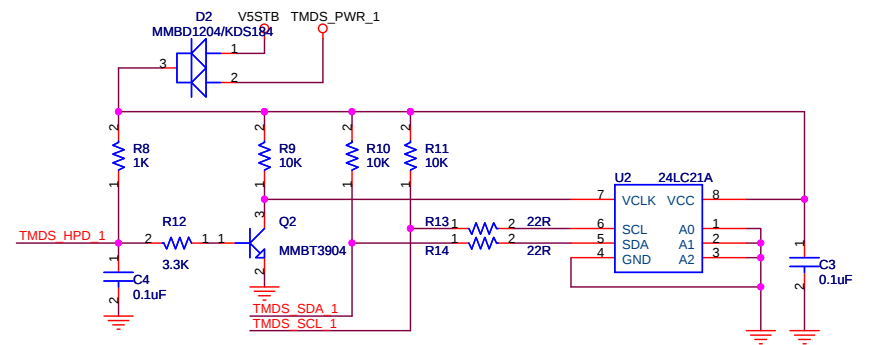
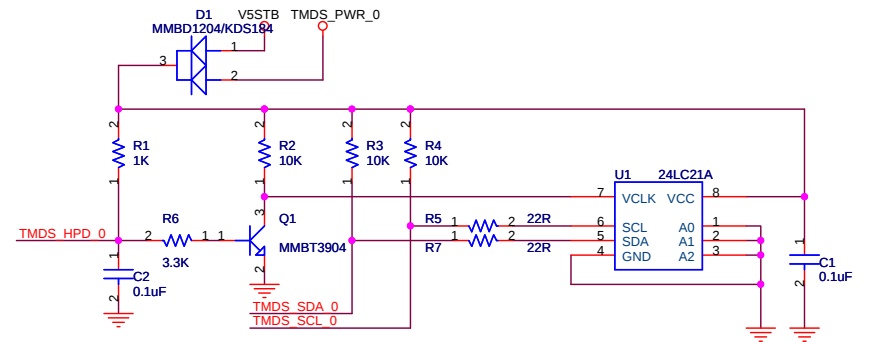
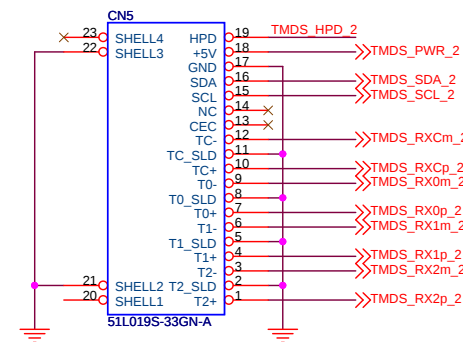
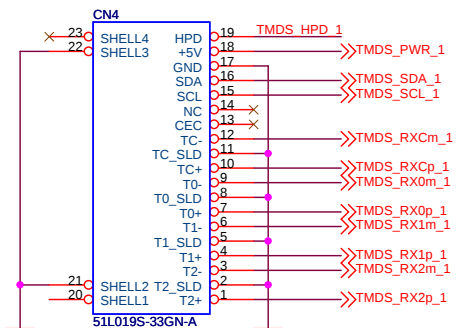
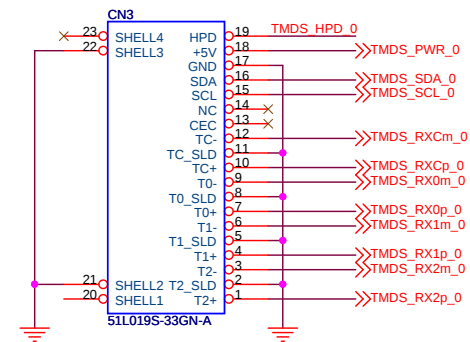
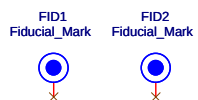
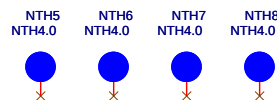
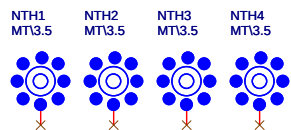
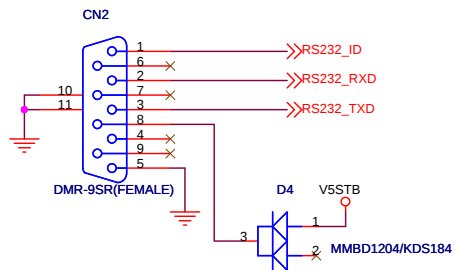
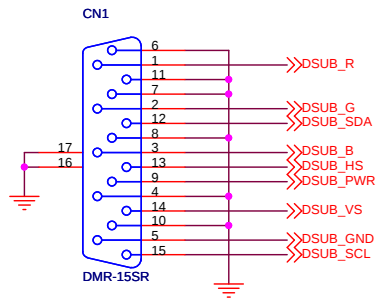
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|------------------------------|----------------------------|----------|
| D&T, Inc.                    |                            |          |
| Title LB506                  |                            |          |
| Size B                       | Document Number Main Power | Rev R03B |
| Date: Tuesday, July 15, 2008 | Sheet 13                   | of 13    |

MODEL : LB506 IO Board

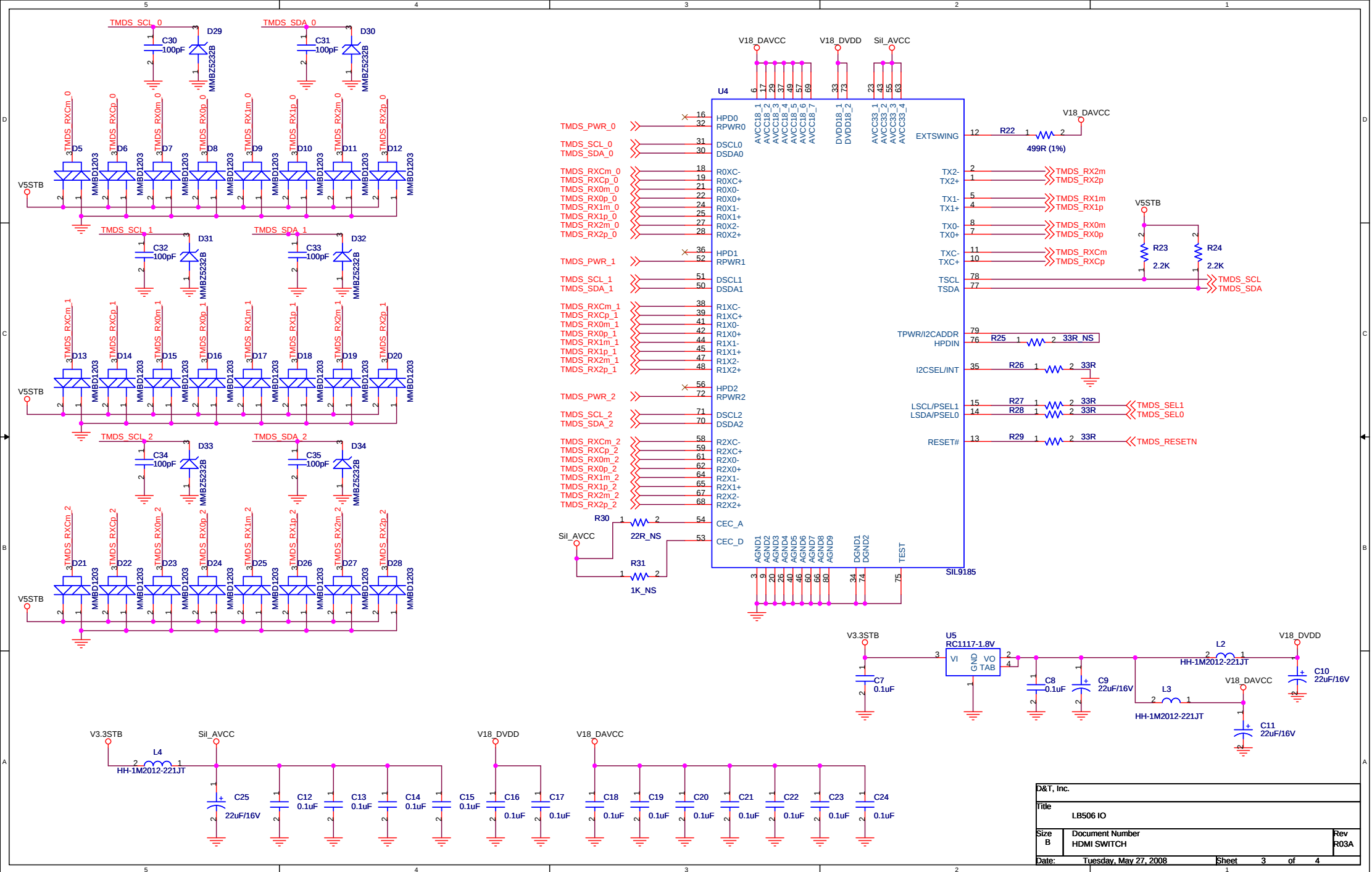
REVISION NO : R03A

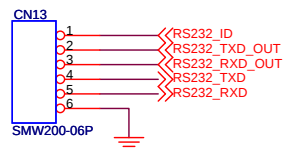
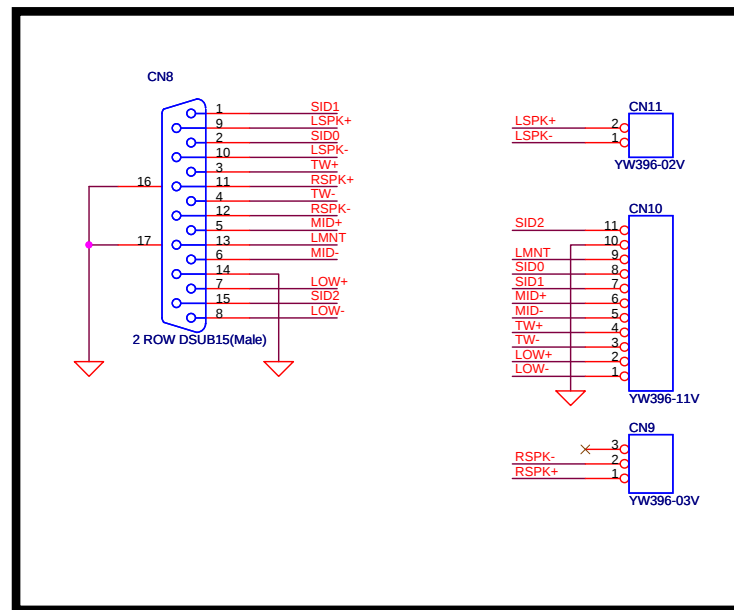
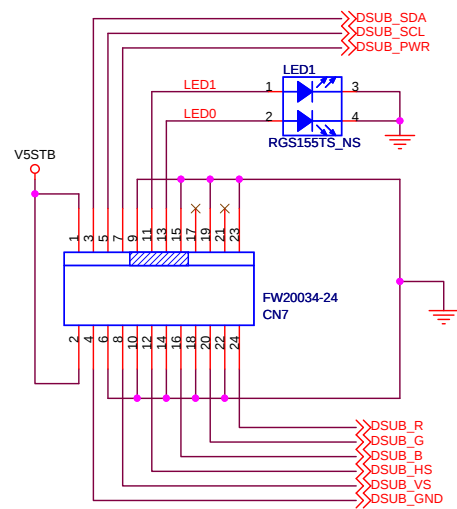
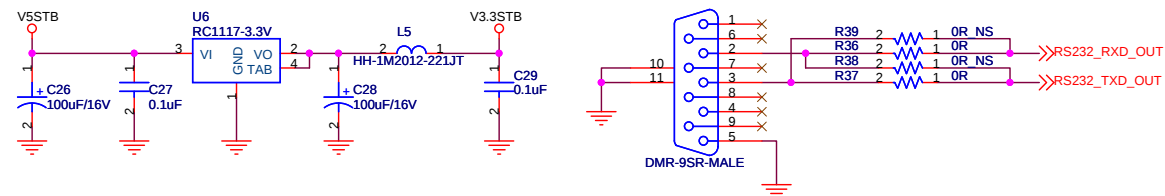
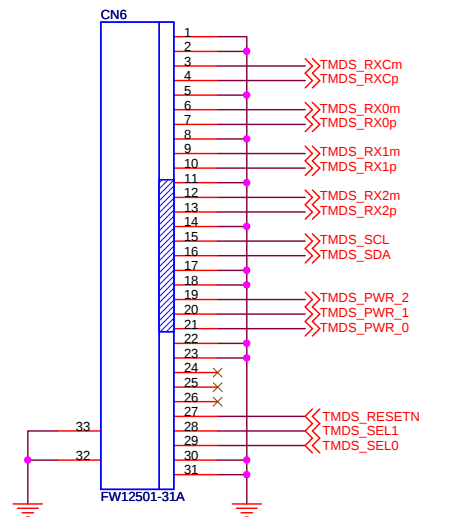
| REV  | DATE       | HISTORY                                                                  |
|------|------------|--------------------------------------------------------------------------|
| R01  | 2007/10/15 | 1st Edition                                                              |
| R02  | 2008/02/01 | 2nd Edition<br>RS232 OUT추가, HDMI1,2,3의 SDA, SCL Line 상호변경등               |
| R03  | 2008/03/21 | 3rd Edition<br>Center speaker pin순서 변경, L1 bead삭제<br>HDMI Jack쪽 ESD대책 추가 |
| R03A | 2008/05/26 | 4th Edition<br>Change Left & Center speaker Connector                    |
|      |            |                                                                          |

| APPROVAL |                    |                 |
|----------|--------------------|-----------------|
| DESIGNER | PROJECT<br>MANAGER | R&D<br>DIRECTOR |
|          |                    |                 |
|          |                    |                 |

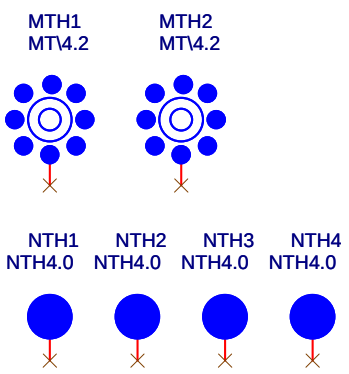
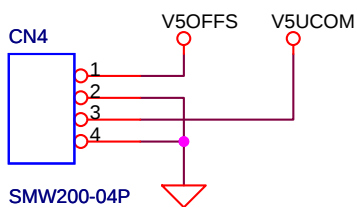
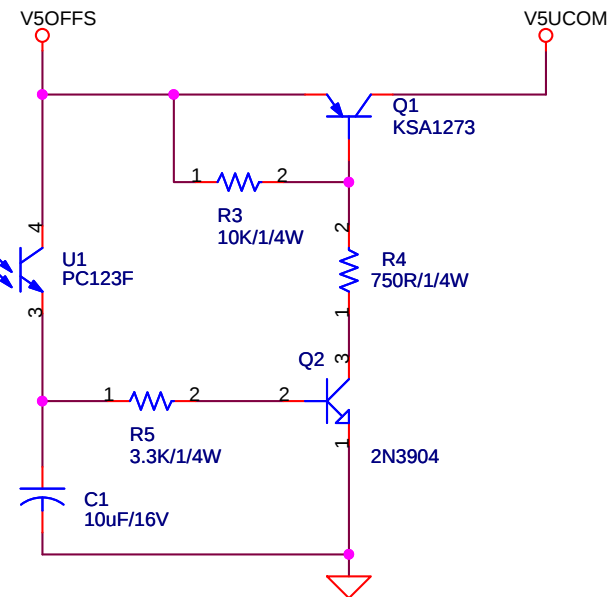
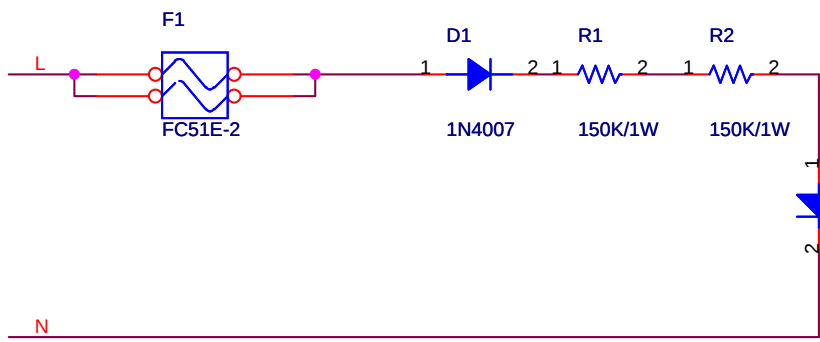
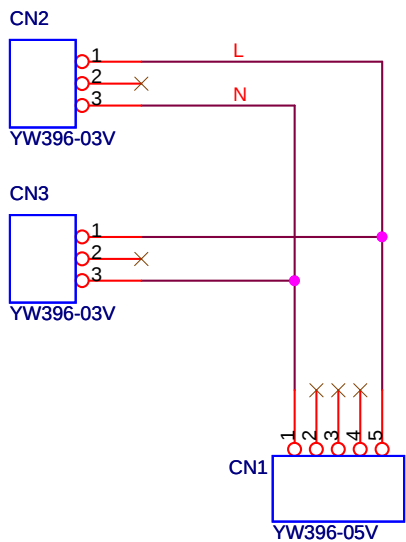


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| D&T, Inc. |                       |              |
| Title     |                       |              |
| LB506 IO  |                       |              |
| Size      | Document Number       | Rev          |
| B         | VIDEO INPUT           | R03A         |
| Date:     | Tuesday, May 27, 2008 | Sheet 2 of 4 |





|           |                        |       |        |
|-----------|------------------------|-------|--------|
| D&T, Inc. |                        |       |        |
| Title     |                        |       |        |
| LB506 IO  |                        |       |        |
| Size      | Document Number        |       | Rev    |
|           | Misc                   |       |        |
| B         |                        |       | R03A   |
| Date:     | Thursday, May 29, 2008 | Sheet | 4 of 4 |



|                |                              |              |
|----------------|------------------------------|--------------|
| Title          |                              |              |
| eagle/aquarius |                              |              |
| Size A         | Document Number<br>AC Device | Rev<br>R03A  |
| Date:          | Tuesday, May 27, 2008        | Sheet 1 of 1 |