

[illegible]

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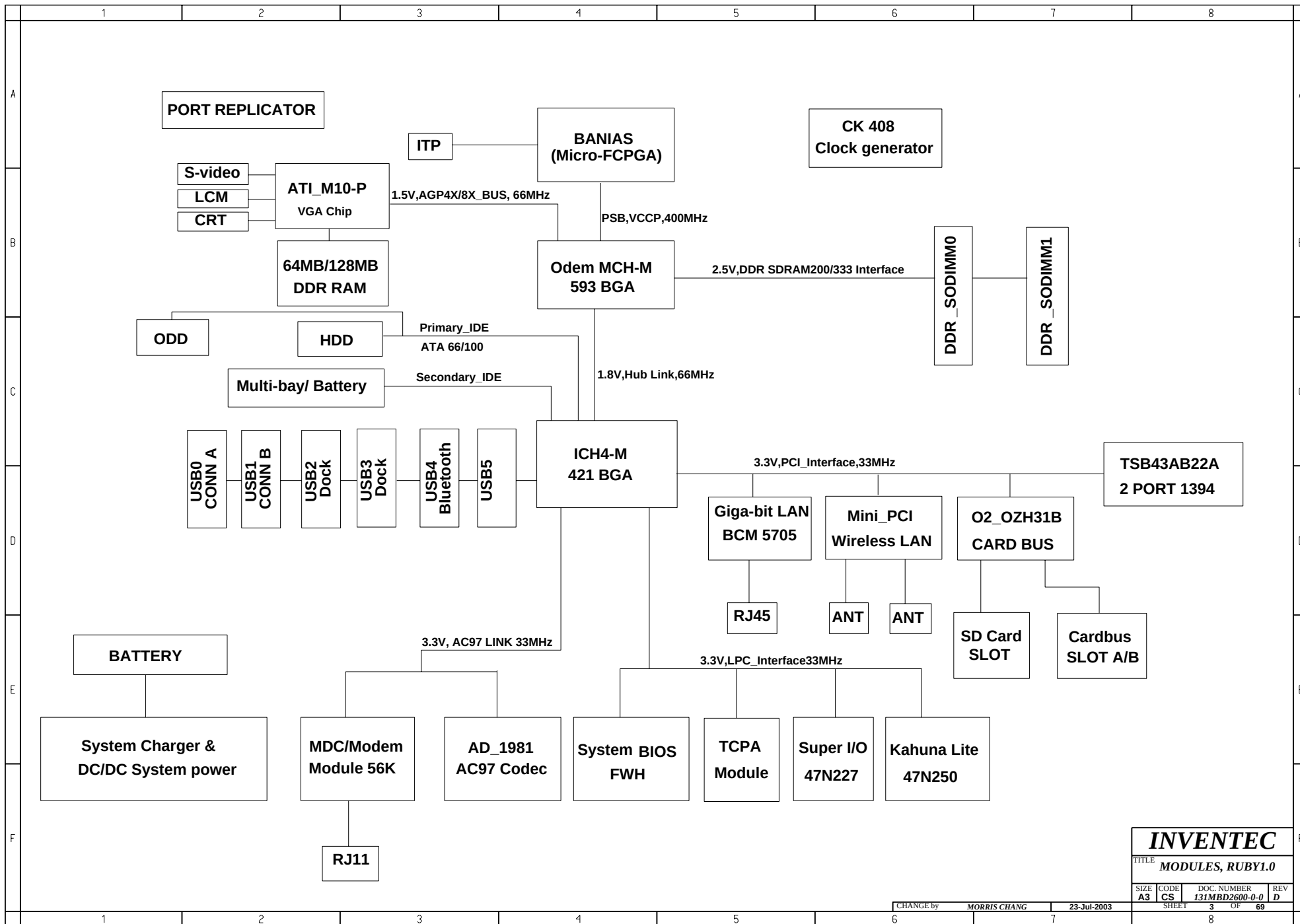
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CHANGE by **MORRIS CHANG** 23-Jul-2003

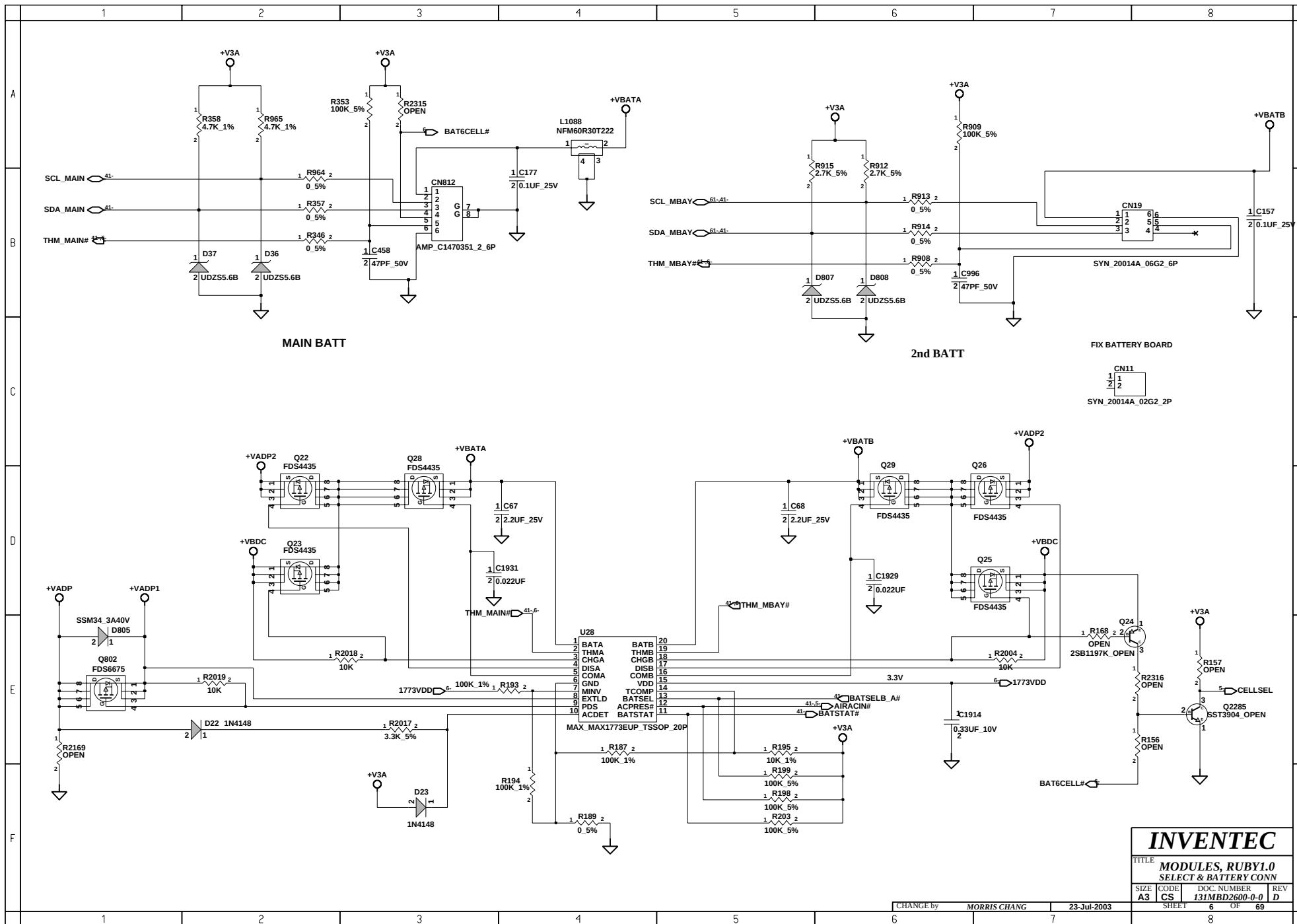
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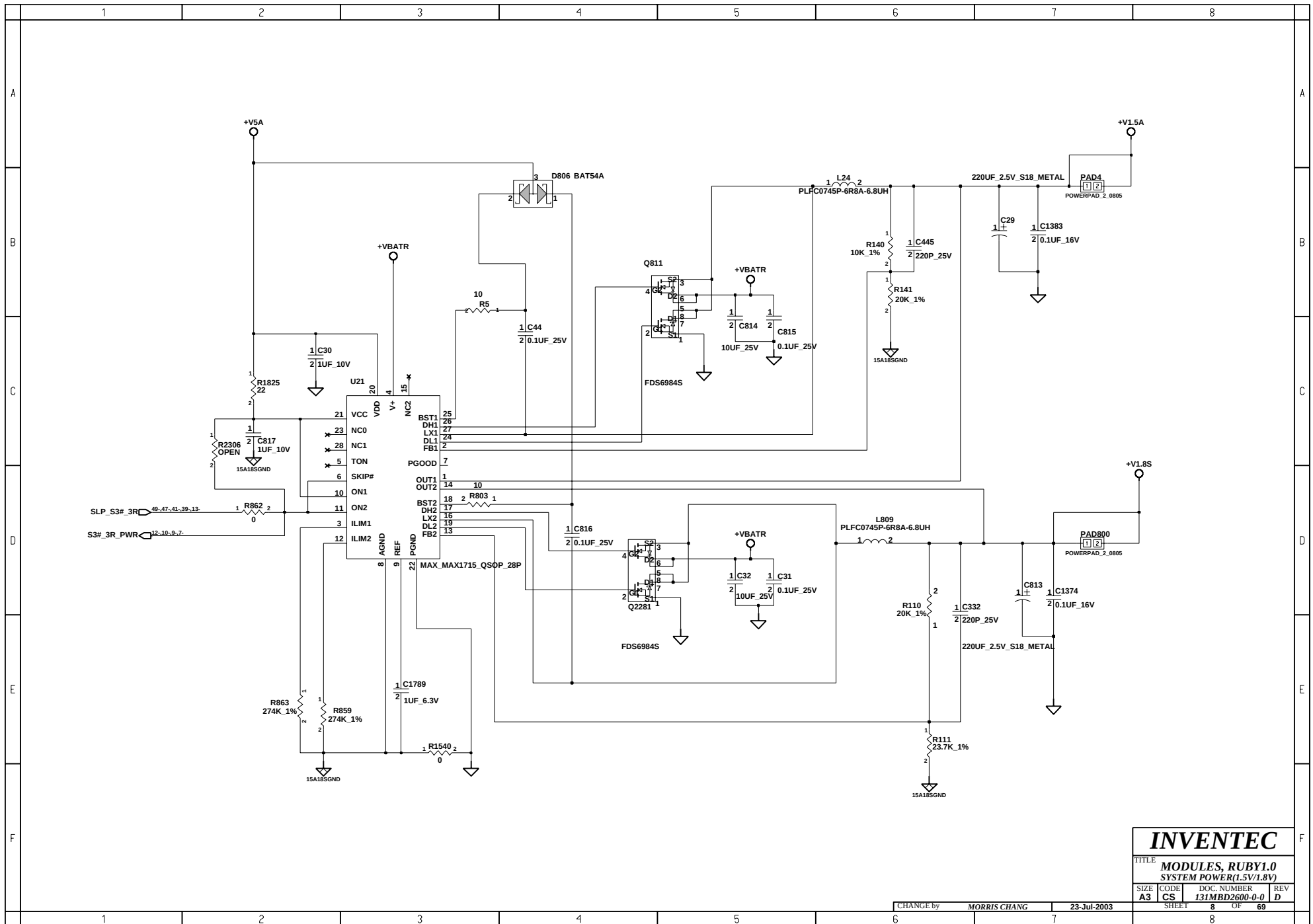
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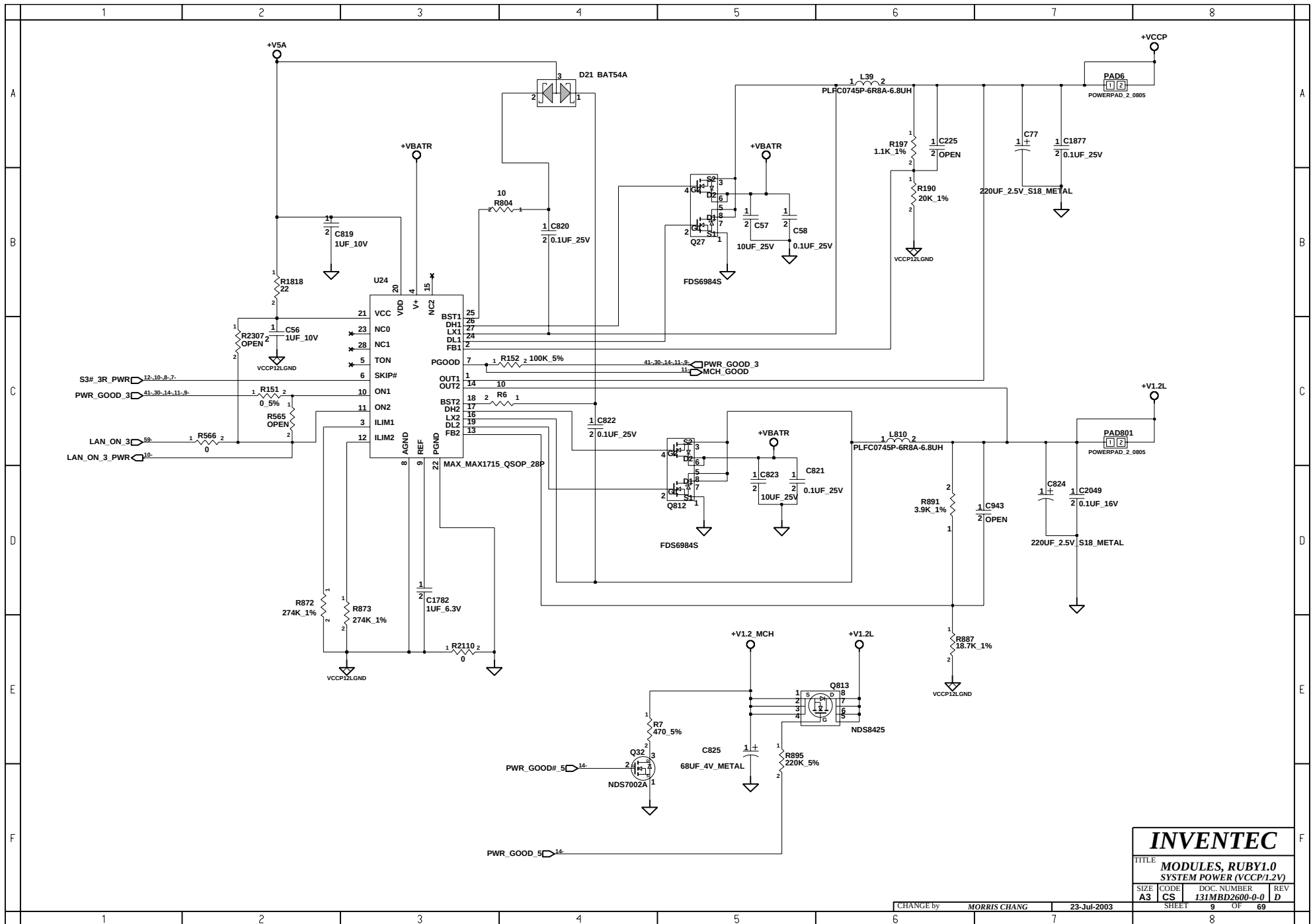
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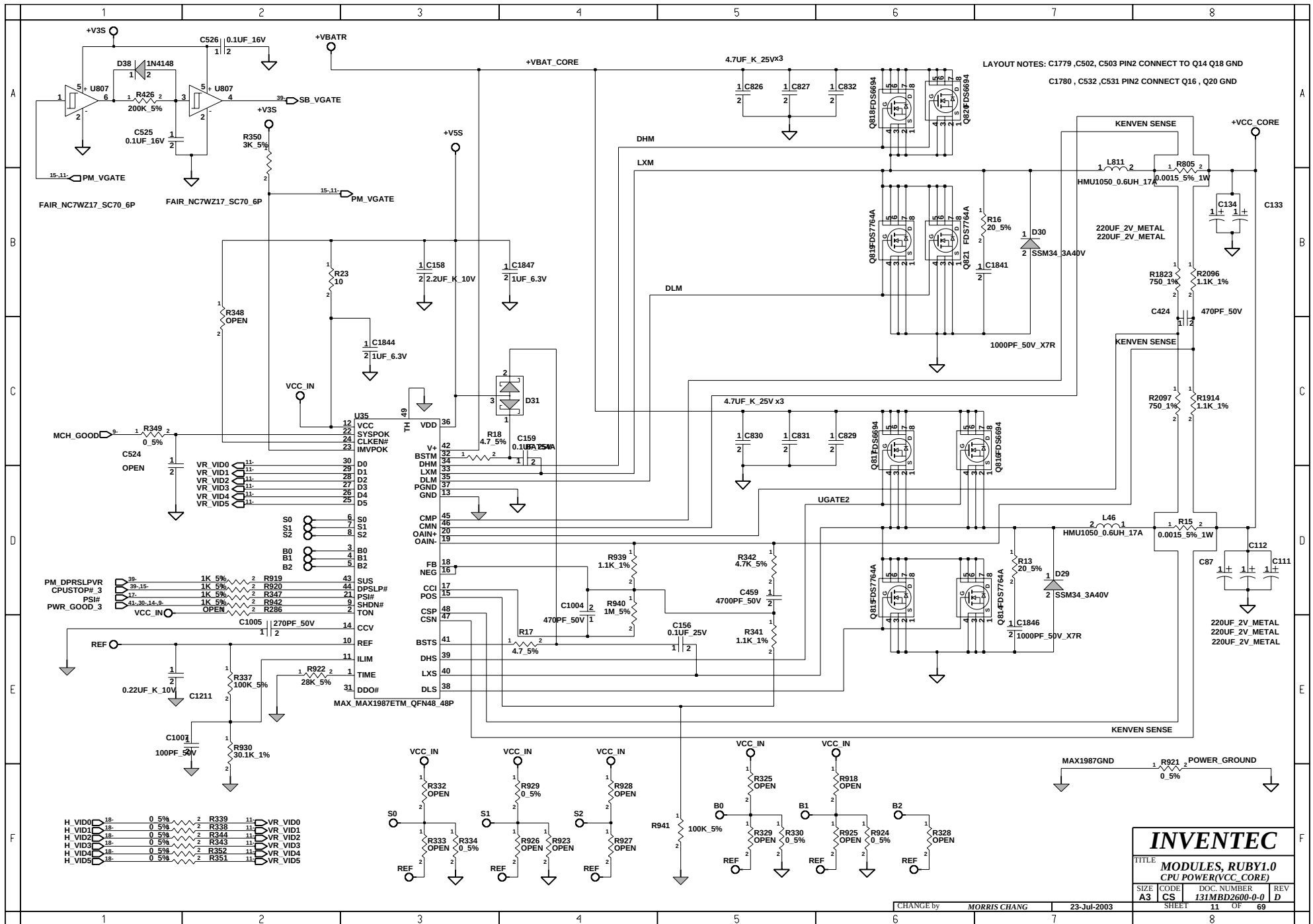
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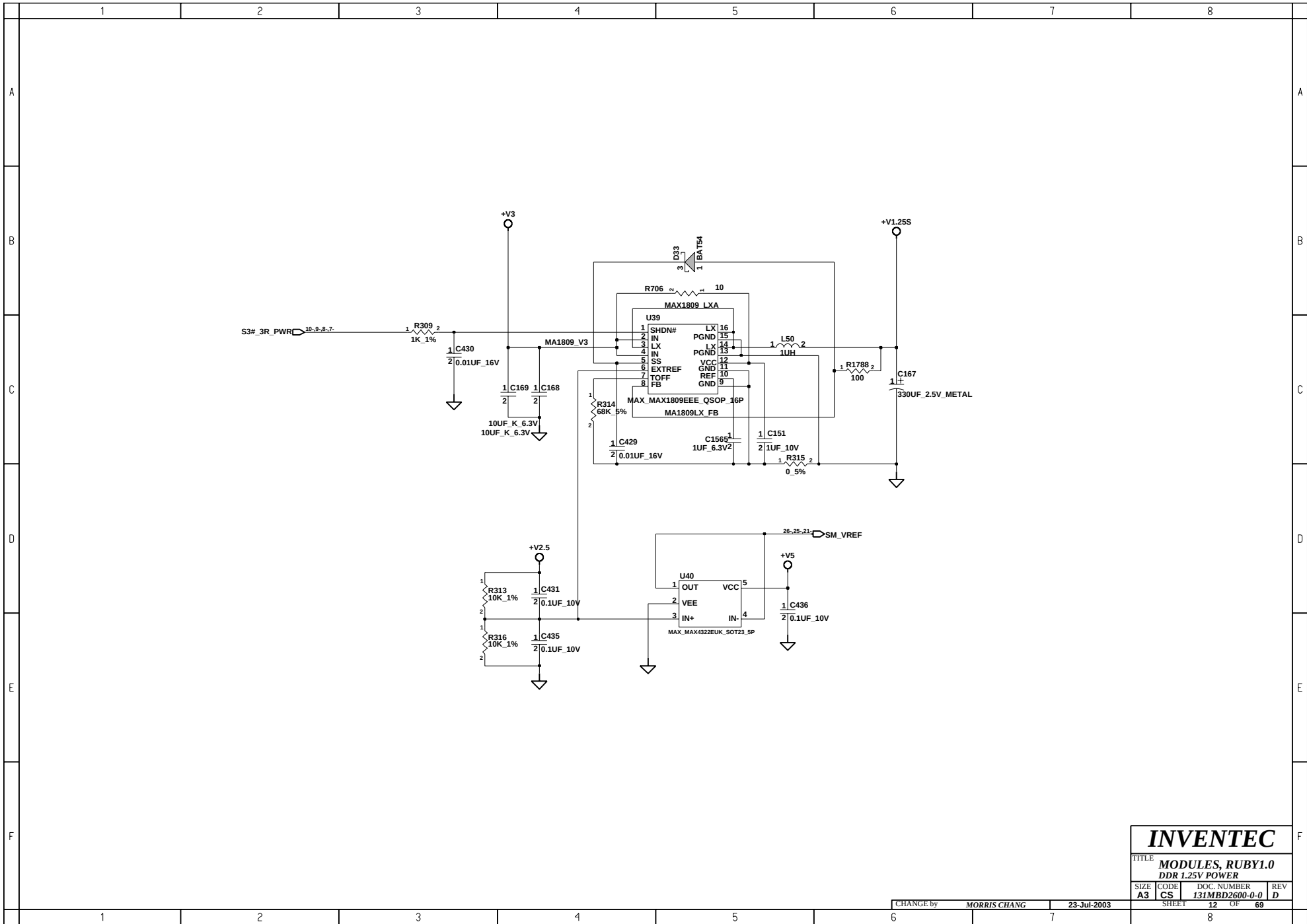












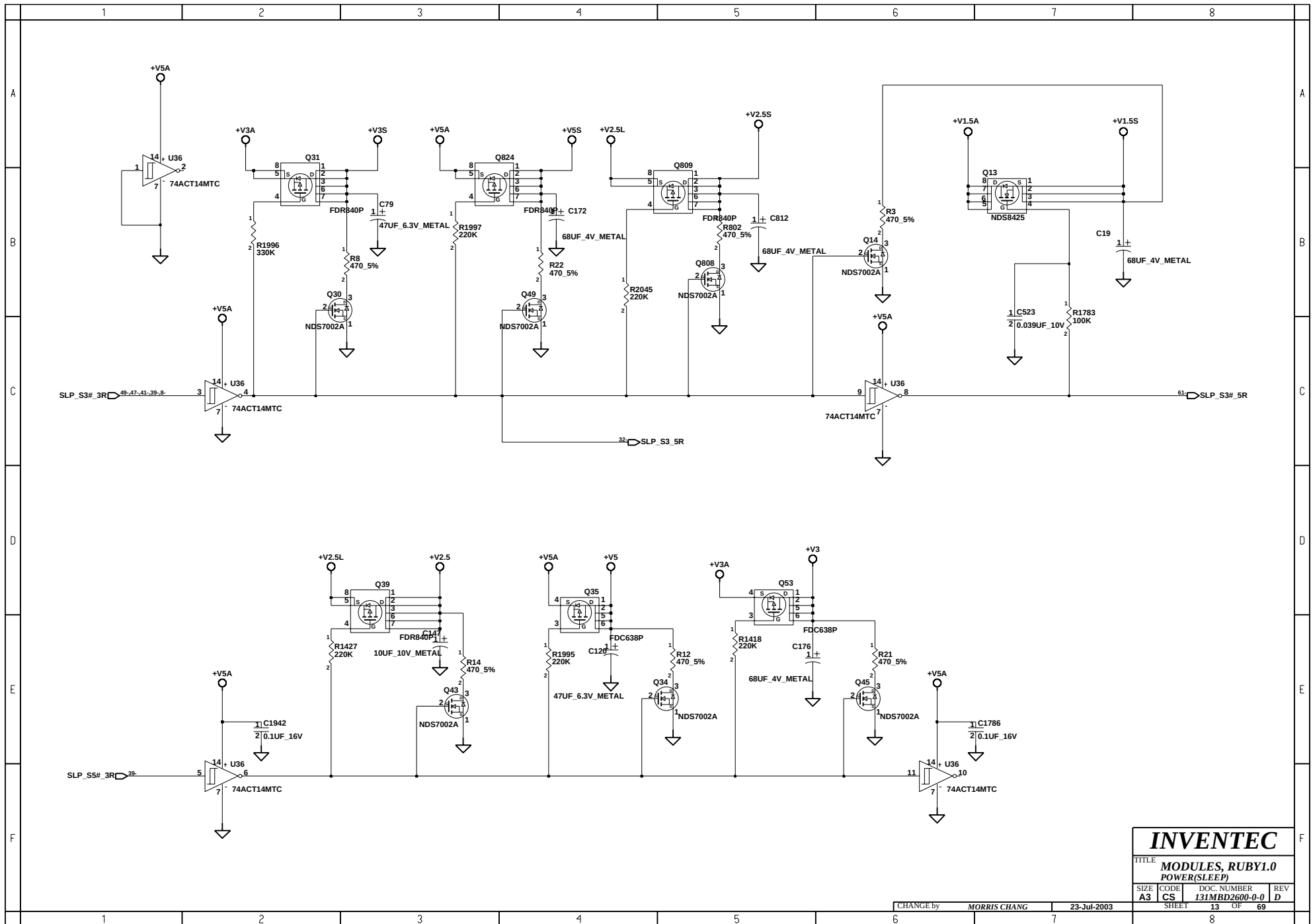
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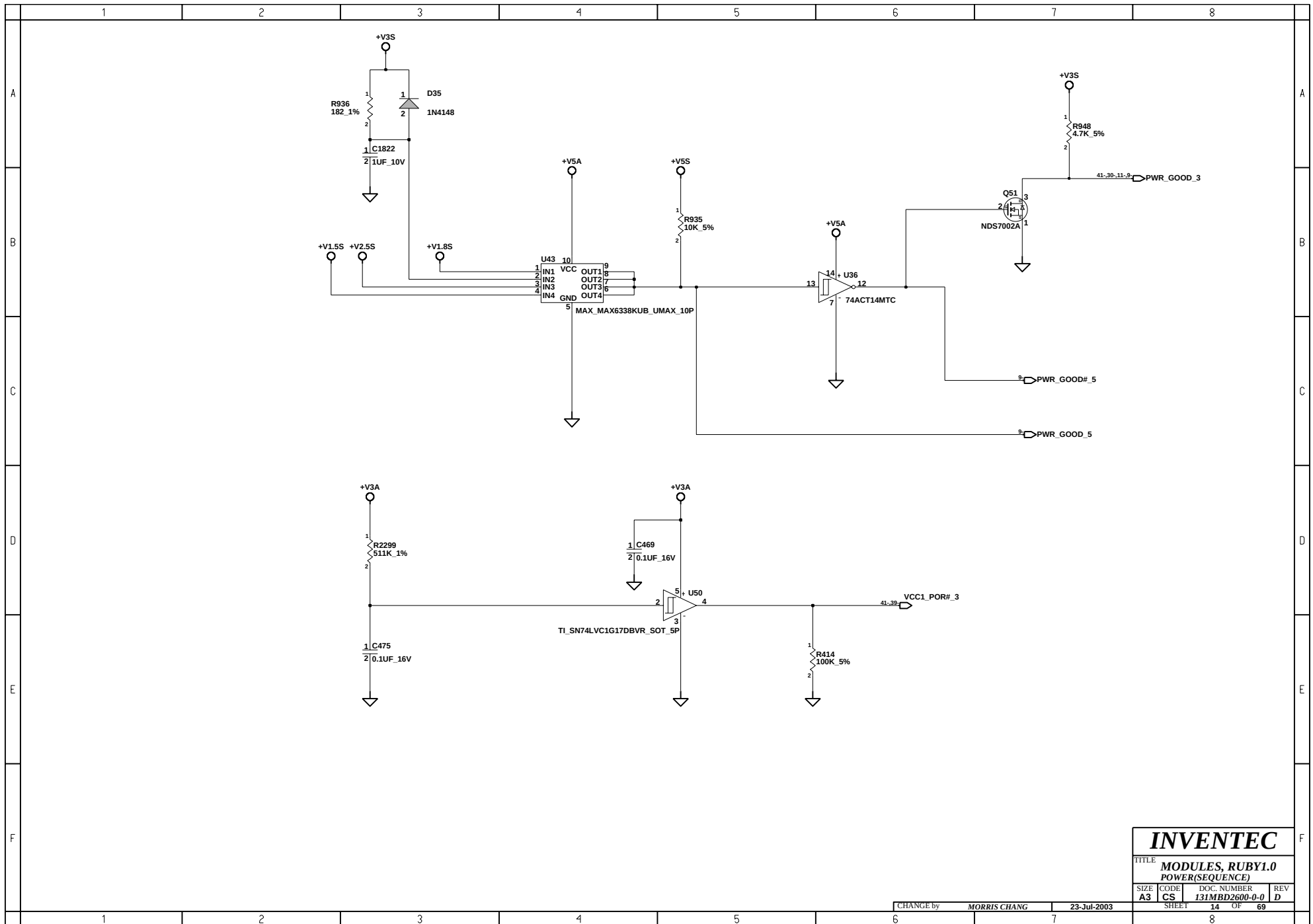
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DDR 1.25V POWER

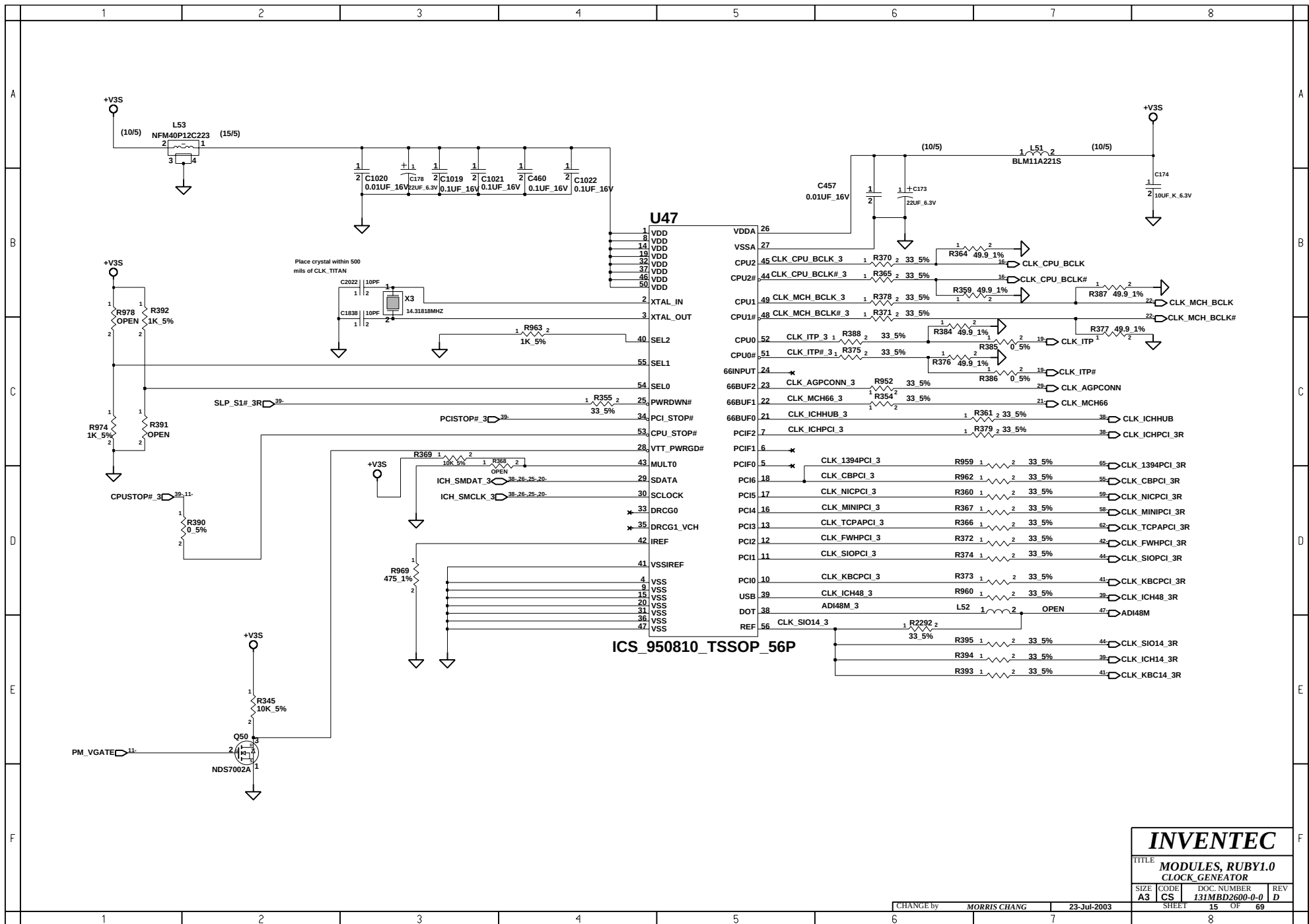
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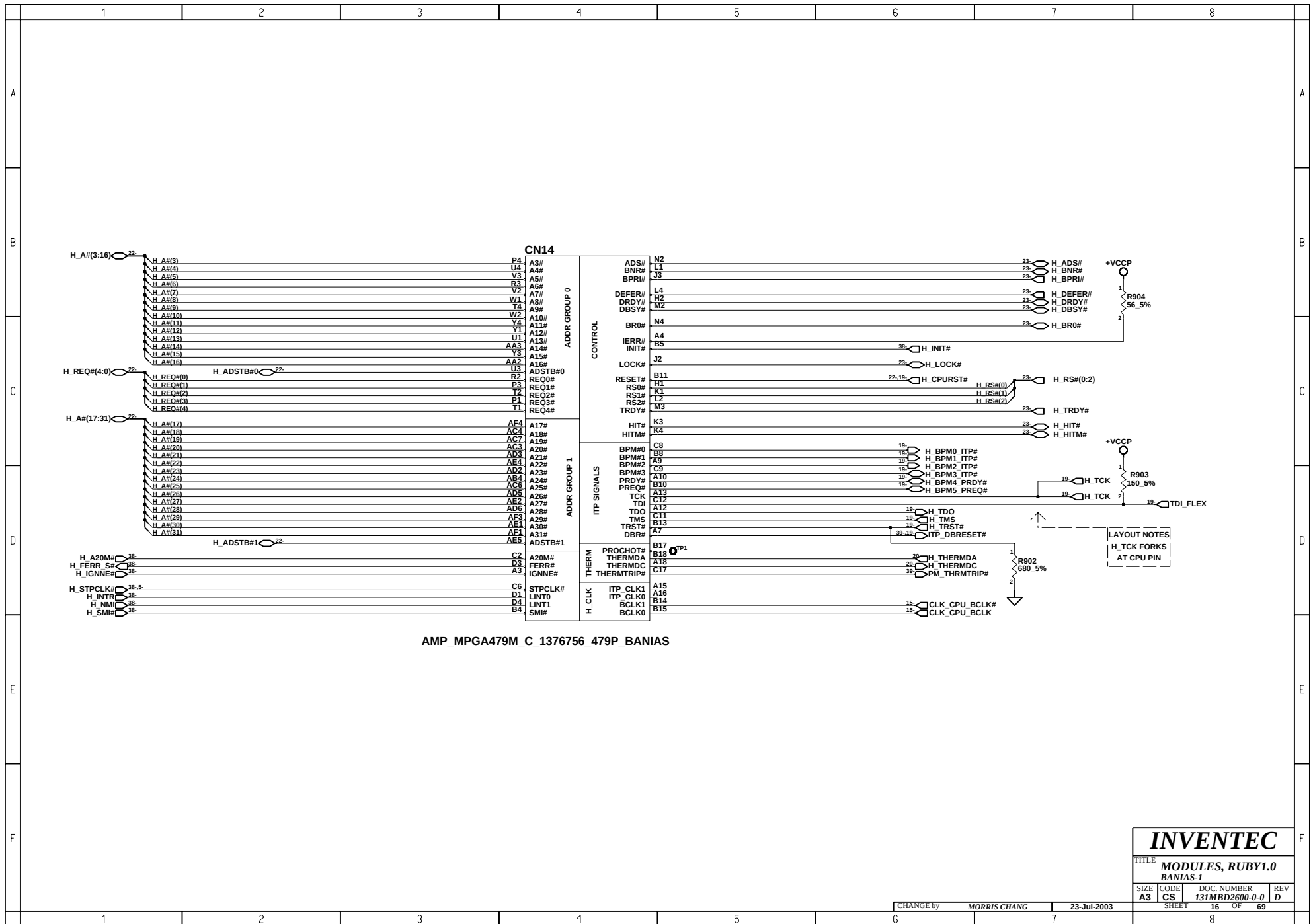
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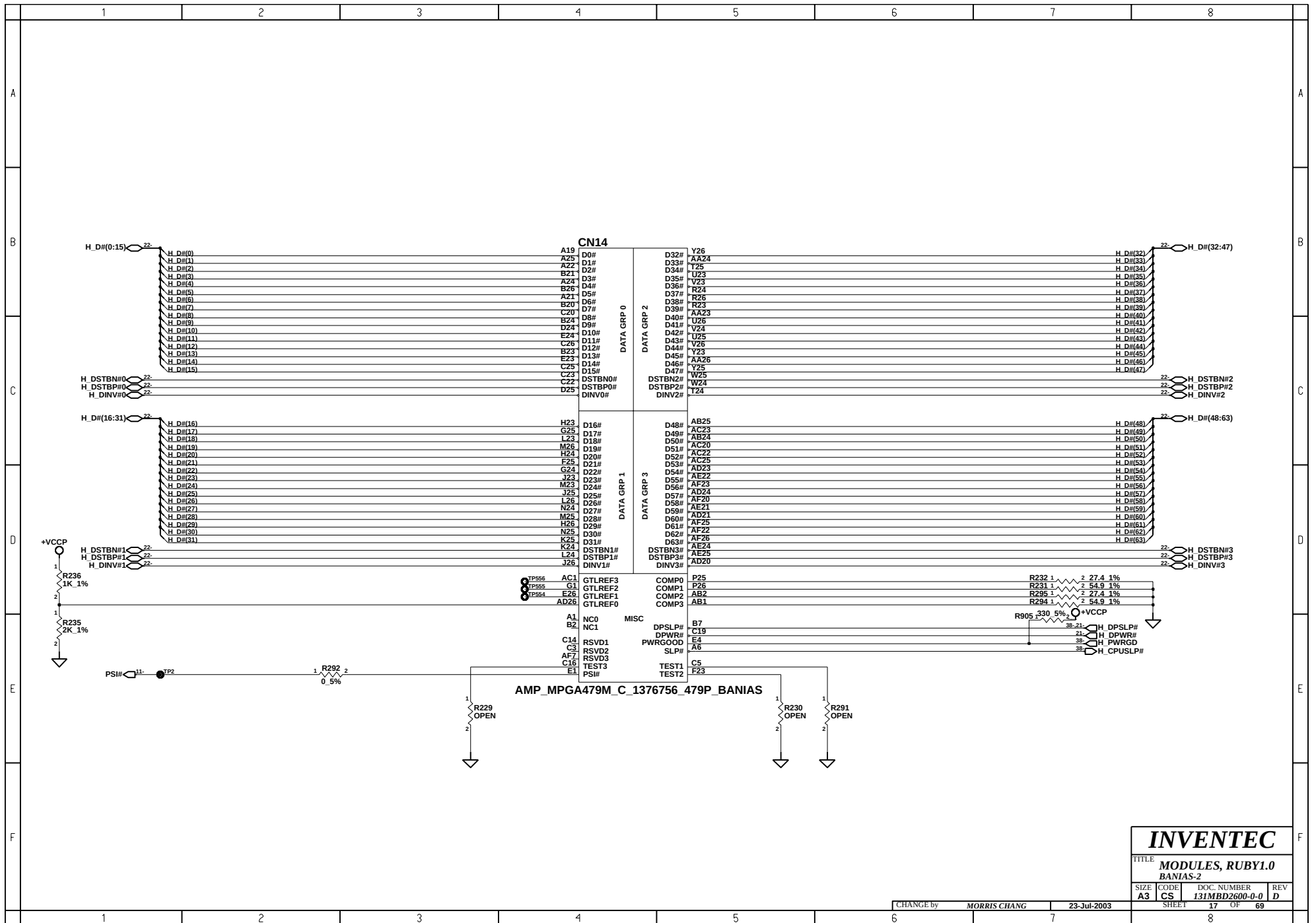
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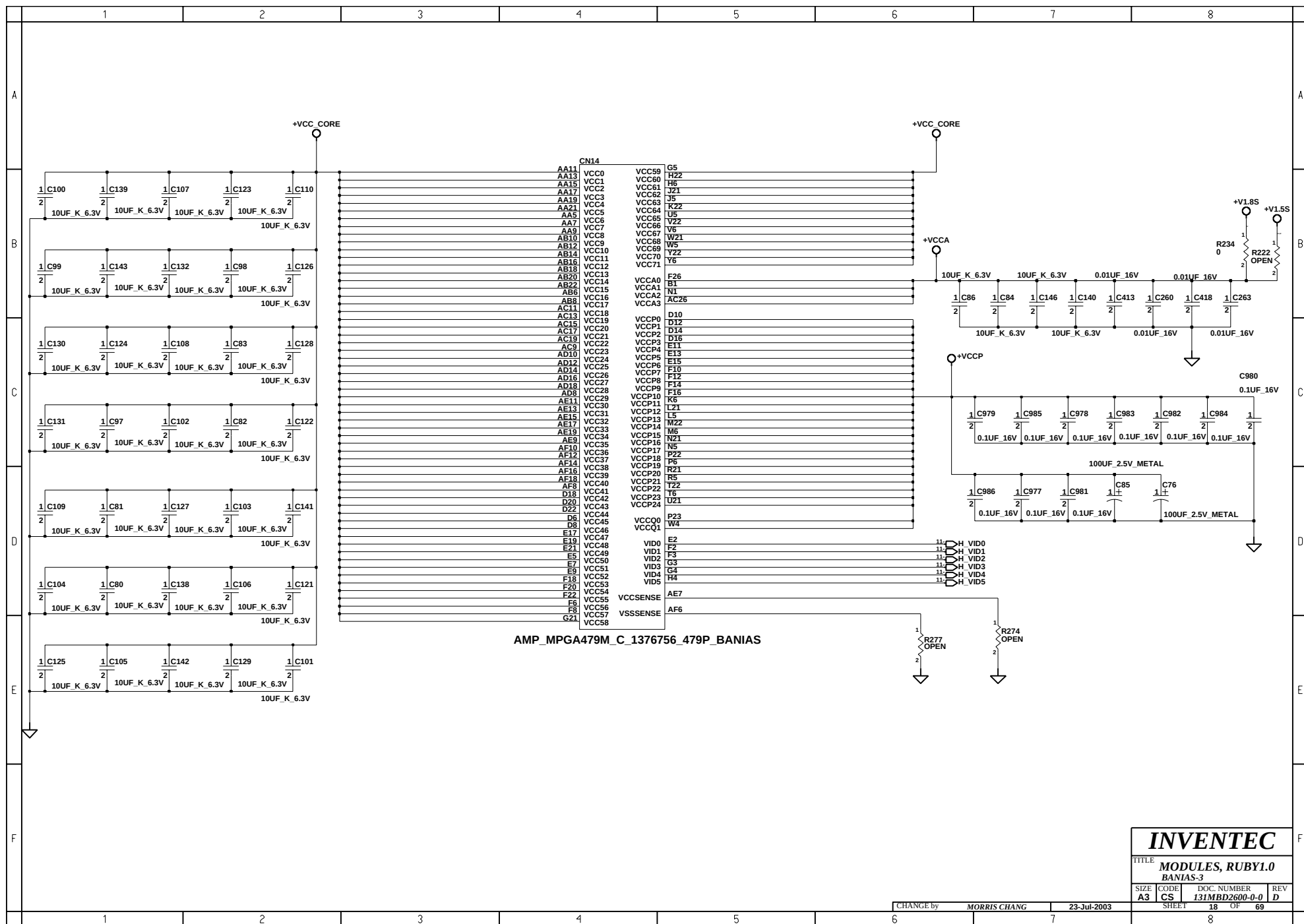


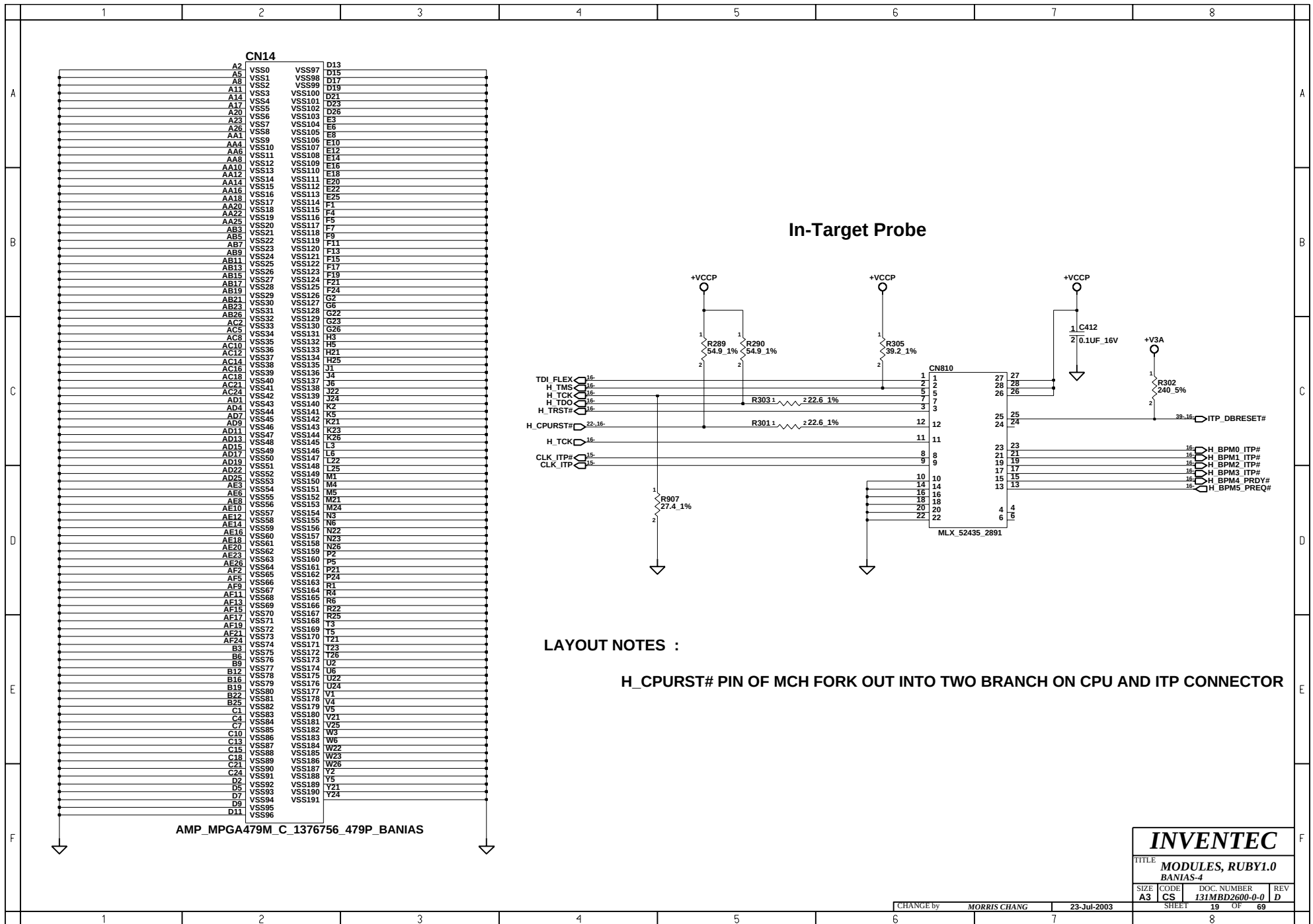


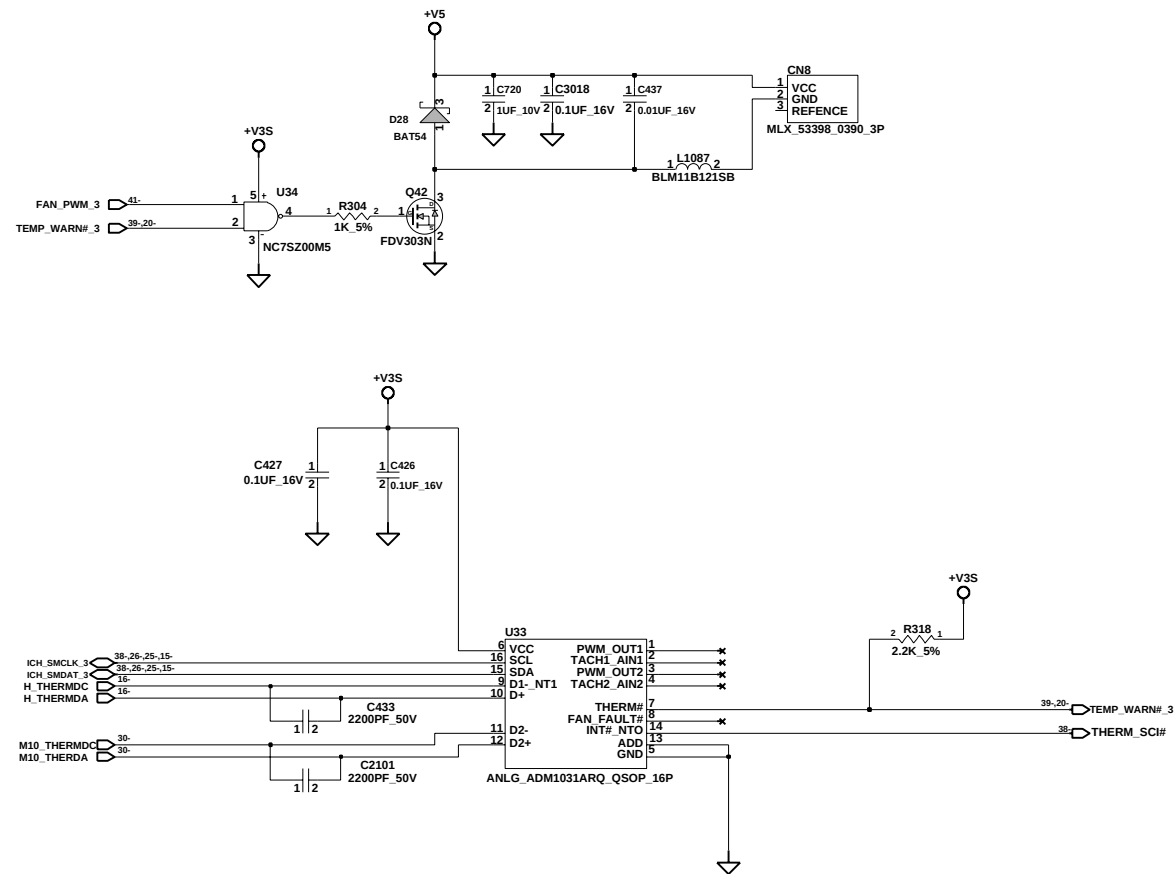






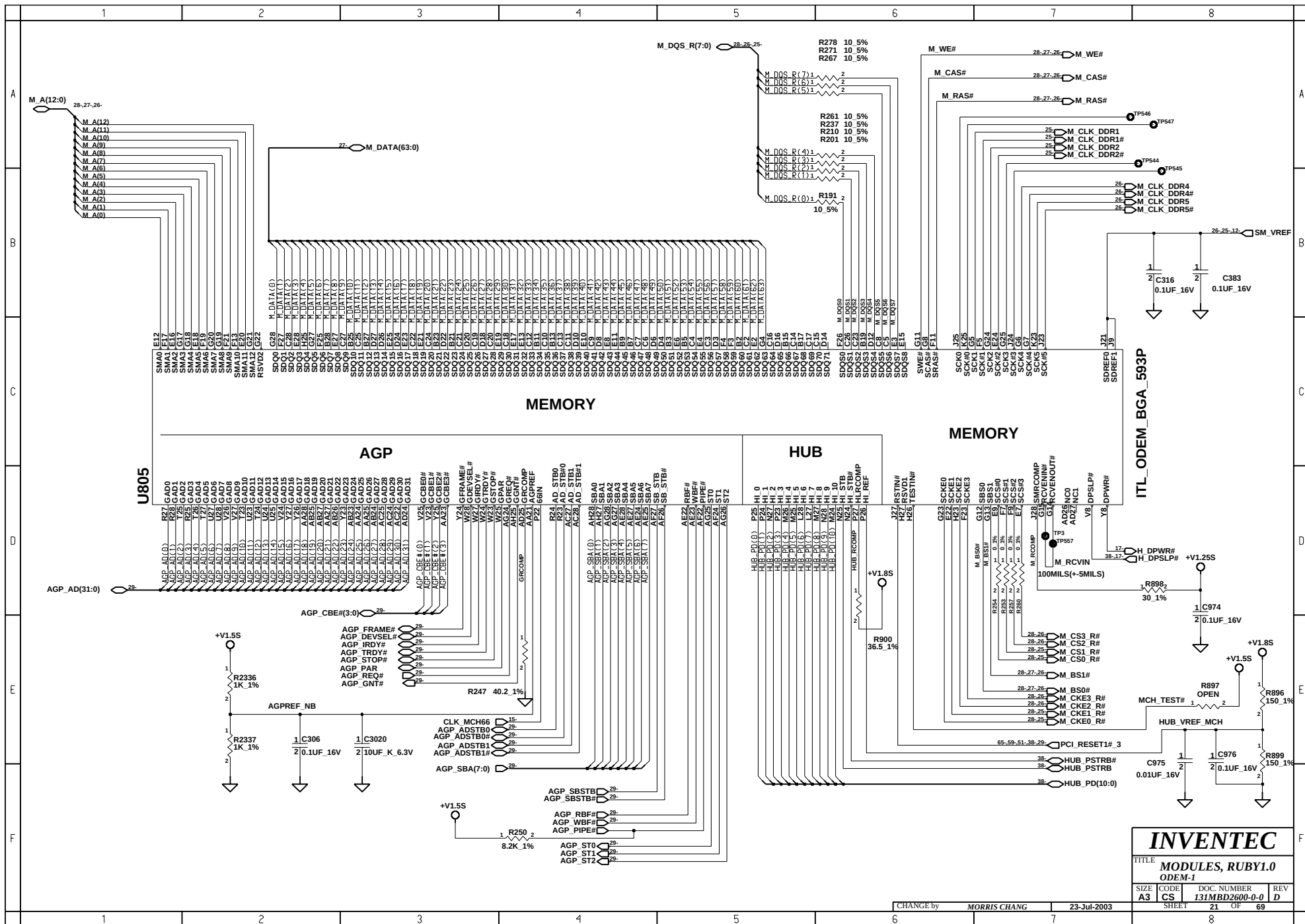


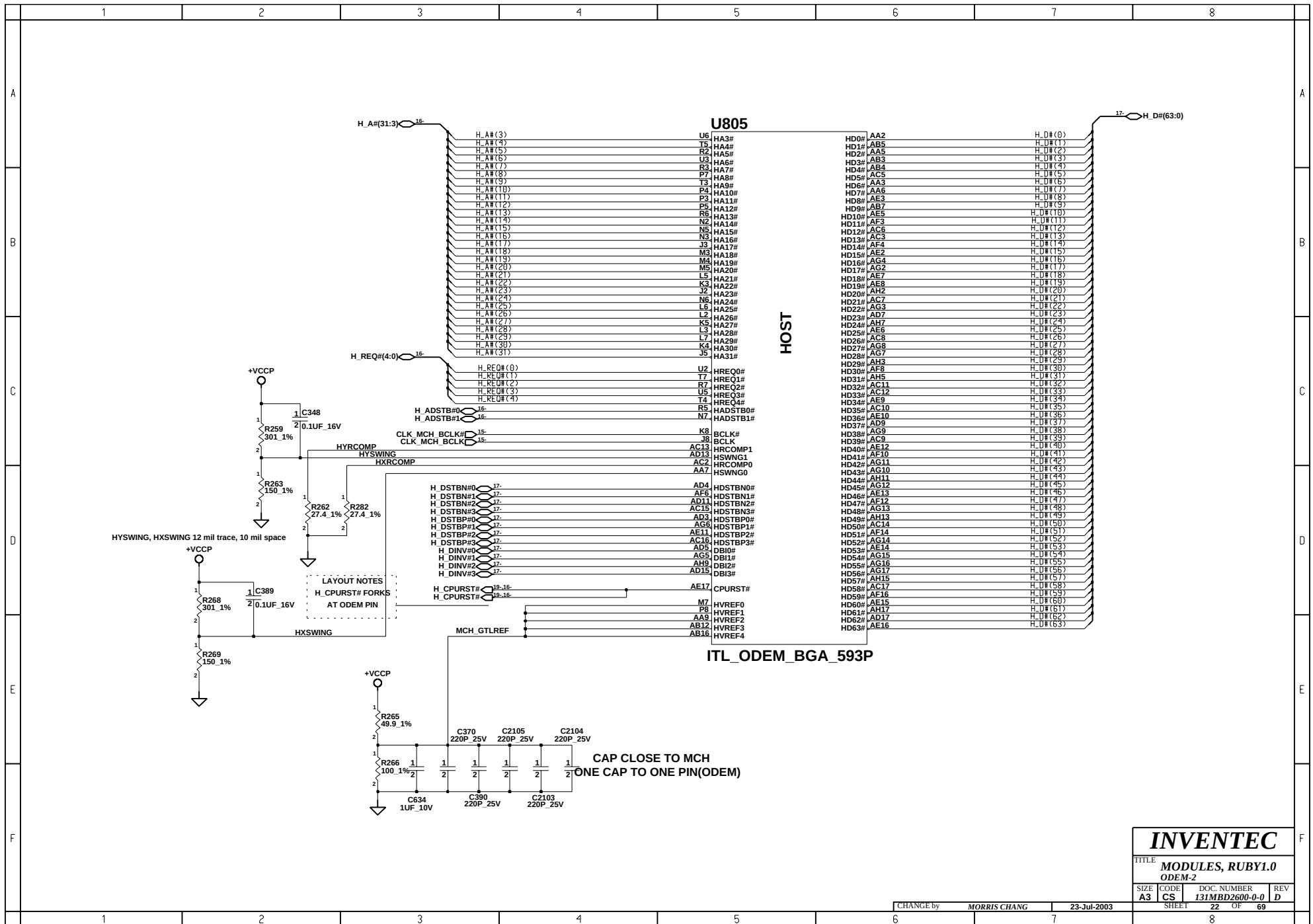




LAYOUT NOTES : PUT THE THERMAL SENSOR CLOSE TO CPU

INVENTEC			
TITLE MODULES, RUBY1.0			
THERMAL&FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I31MBD2600-0-0	D
CHANGE by		23-Jul-2003	
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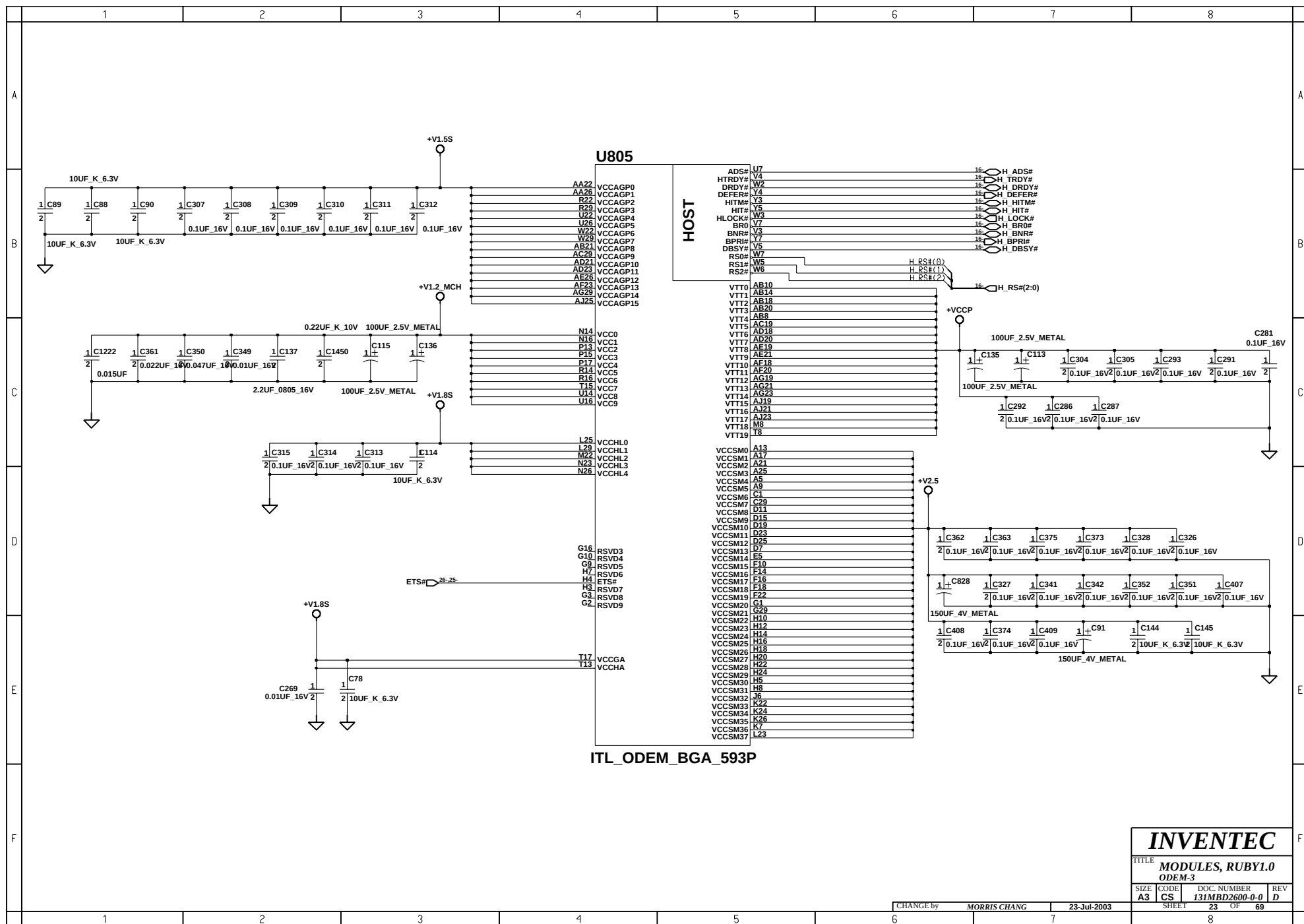
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TITLE
MODULES, RUBY1.0
ODEM-2

SIZE	CODE	DOC. NUMBER	REV
A3	CS	131MBD2600-0-0	D

CHANGE by **MORRIS CHANG** 23-Jul-2003

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	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

U805

A11

VSS0

A15

VSS1

A19

VSS2

A23

VSS3

A27

VSS4

A3

VSS5

A7

VSS6

AA1

VSS7

AA29

VSS8

AA4

VSS9

AA8

VSS10

AB11

VSS11

AB13

VSS12

AB15

VSS13

AB17

VSS14

AB19

VSS15

AB22

VSS16

AB6

VSS17

AB9

VSS18

AC1

VSS19

AC18

VSS20

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VSS22

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AC26

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AE18

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AE29

VSS37

AE4

VSS38

AF11

VSS39

AF13

VSS40

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AF9

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AG1

VSS49

AG18

VSS50

AG20

VSS51

AG22

VSS52

AH19

VSS53

AH21

VSS54

AH23

VSS55

AJ11

VSS56

AJ13

VSS57

AJ15

VSS58

AJ17

VSS59

AJ27

VSS60

AJ3

VSS61

AJ5

VSS62

AJ7

VSS63

AJ9

VSS64

D13

VSS65

D17

VSS66

D21

VSS67

D5

VSS68

D9

VSS69

E1

VSS70

VSS71

E14

VSS72

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VSS73

E29

VSS74

F12

VSS75

F15

VSS76

F20

VSS77

F24

VSS78

F6

VSS79

F8

VSS80

G26

VSS81

H11

VSS82

H13

VSS83

H15

VSS84

H17

VSS85

H19

VSS86

H21

VSS87

H6

VSS88

H9

VSS89

J1

VSS90

J22

VSS91

J26

VSS92

J29

VSS93

J4

VSS94

J7

VSS95

K27

VSS96

K6

VSS97

L1

VSS98

L22

VSS99

L24

VSS100

L26

VSS101

L4

VSS102

L8

VSS103

M23

VSS104

M5

VSS105

N1

VSS106

N13

VSS107

N15

VSS108

N17

VSS109

N22

VSS110

N29

VSS111

N4

VSS112

N8

VSS113

P14

VSS114

P16

VSS115

P6

VSS116

R1

VSS117

R13

VSS118

R15

VSS119

R17

VSS120

R26

VSS121

R4

VSS122

R8

VSS123

T14

VSS124

T16

VSS125

T22

VSS126

T6

VSS127

U1

VSS128

U13

VSS129

U15

VSS130

U17

VSS131

U29

VSS132

U4

VSS133

U8

VSS134

V22

VSS135

V6

VSS136

W1

VSS137

W26

VSS138

W4

VSS139

W8

VSS140

Y22

VSS141

Y6

ITL_ODEM_BGA_593P

INVENTEC

TITLE

MODULES, RUBY1.0

ODEM-4

SIZE

CODE

DOC. NUMBER

REV

A3

CS

131MBD2600-0-0

D

CHANGE by

MORRIS CHANG

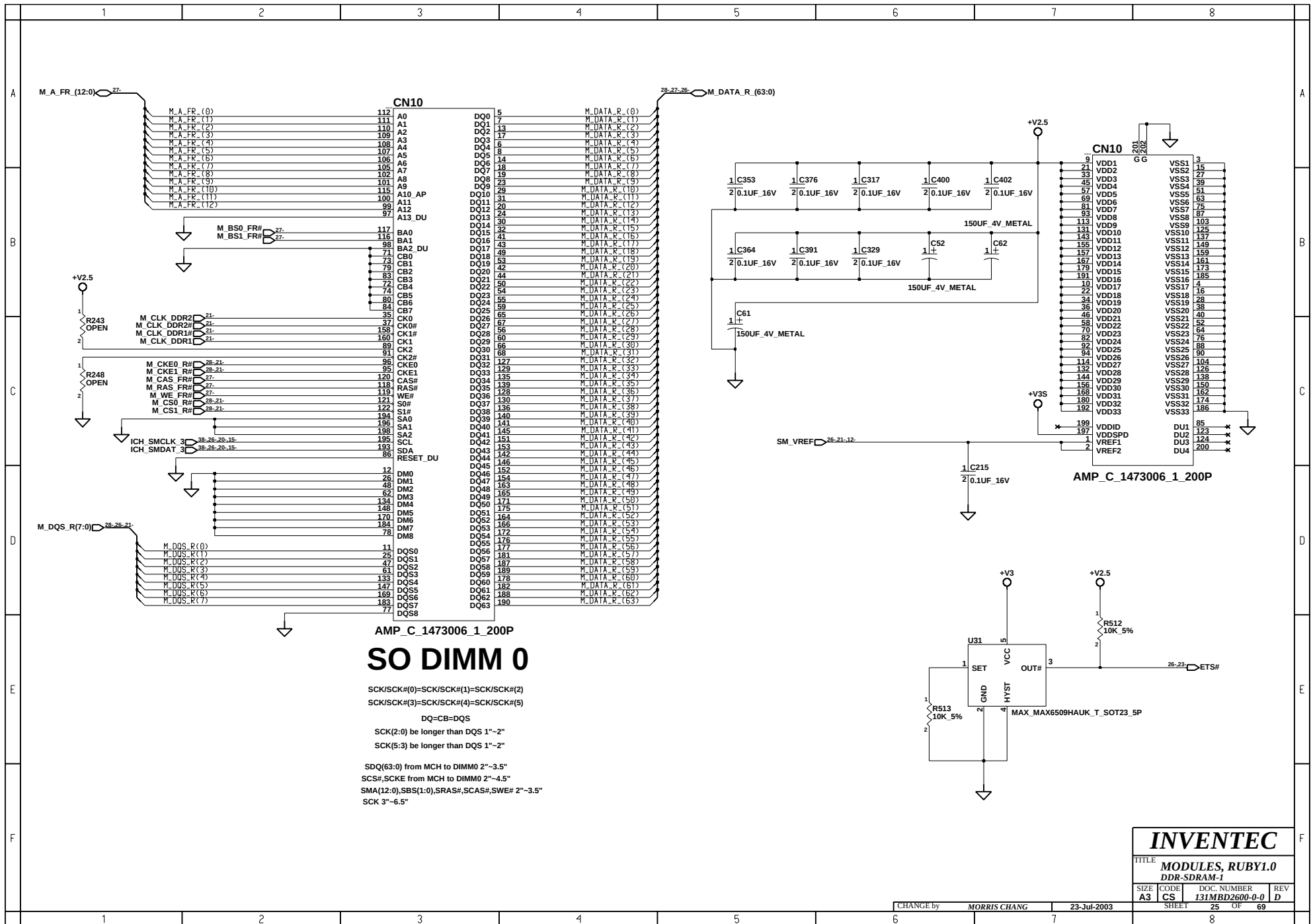
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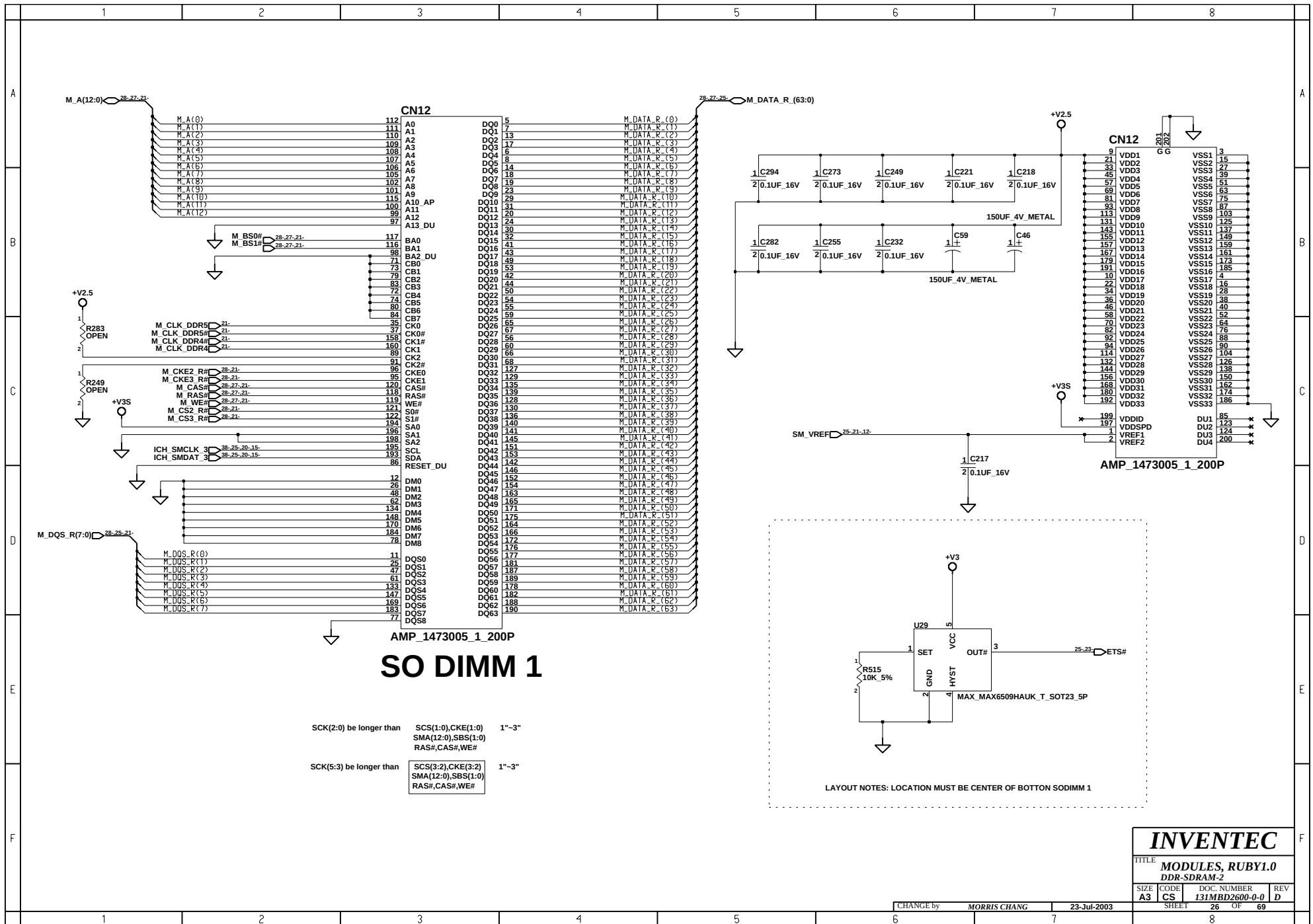
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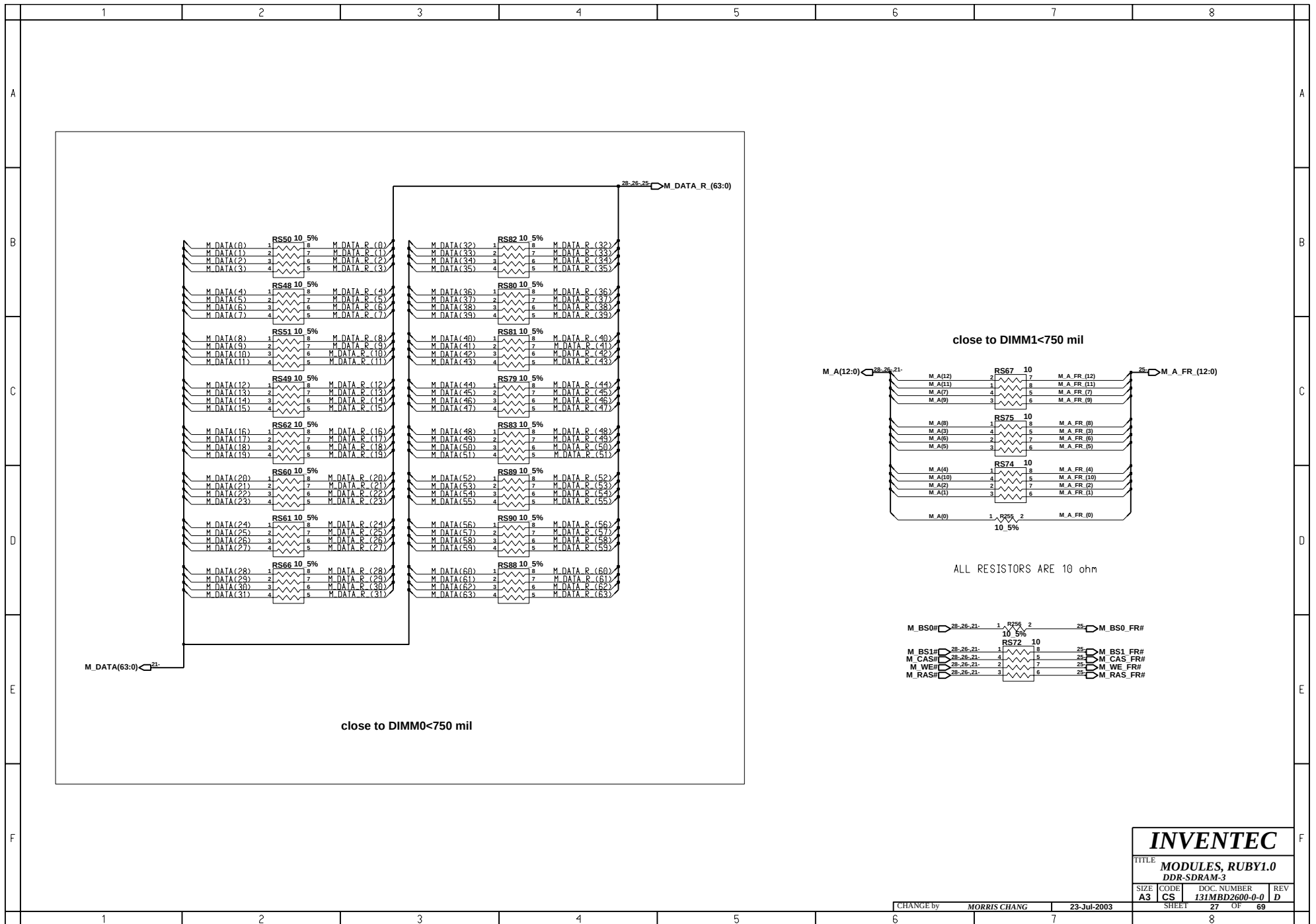
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OF

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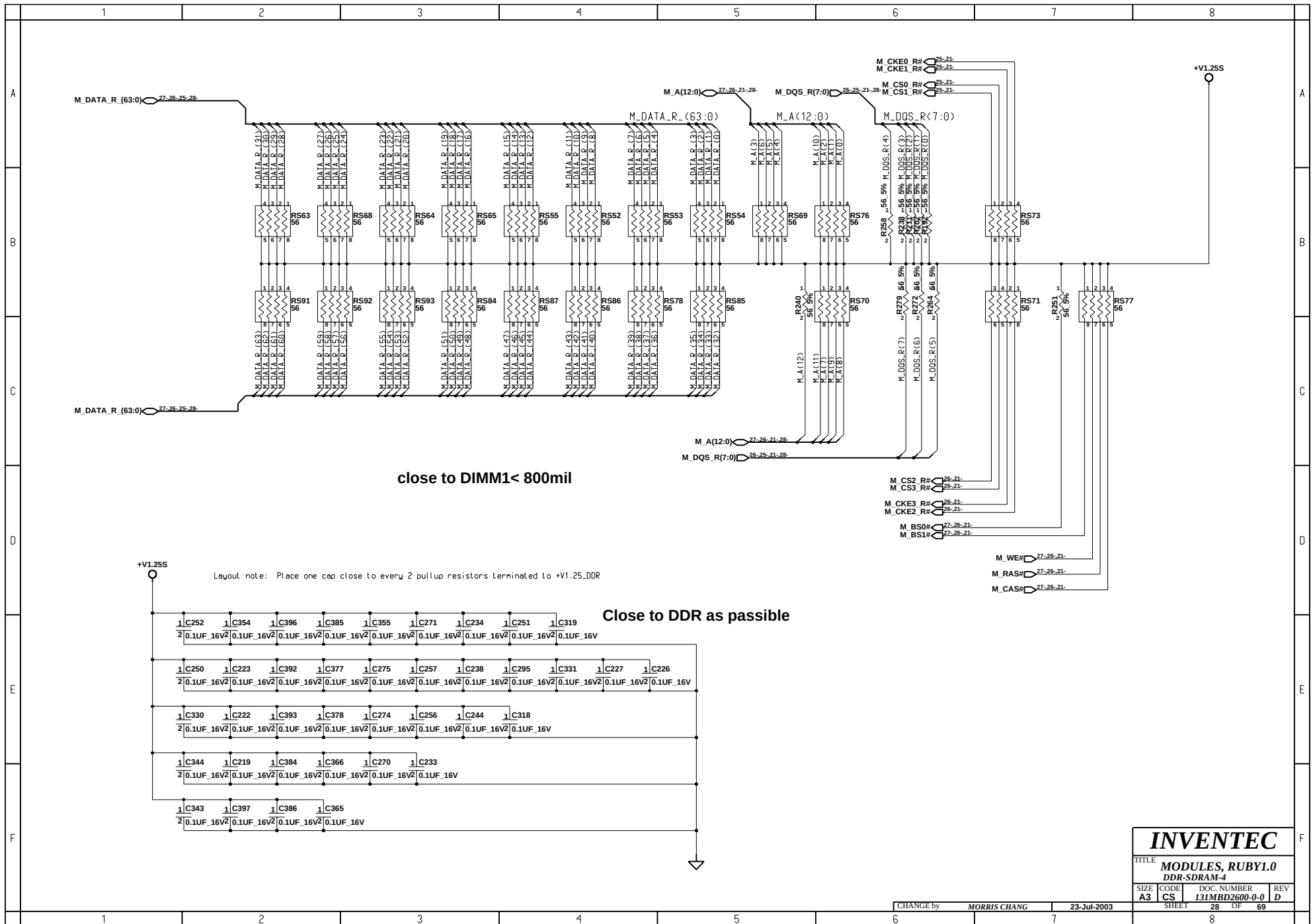
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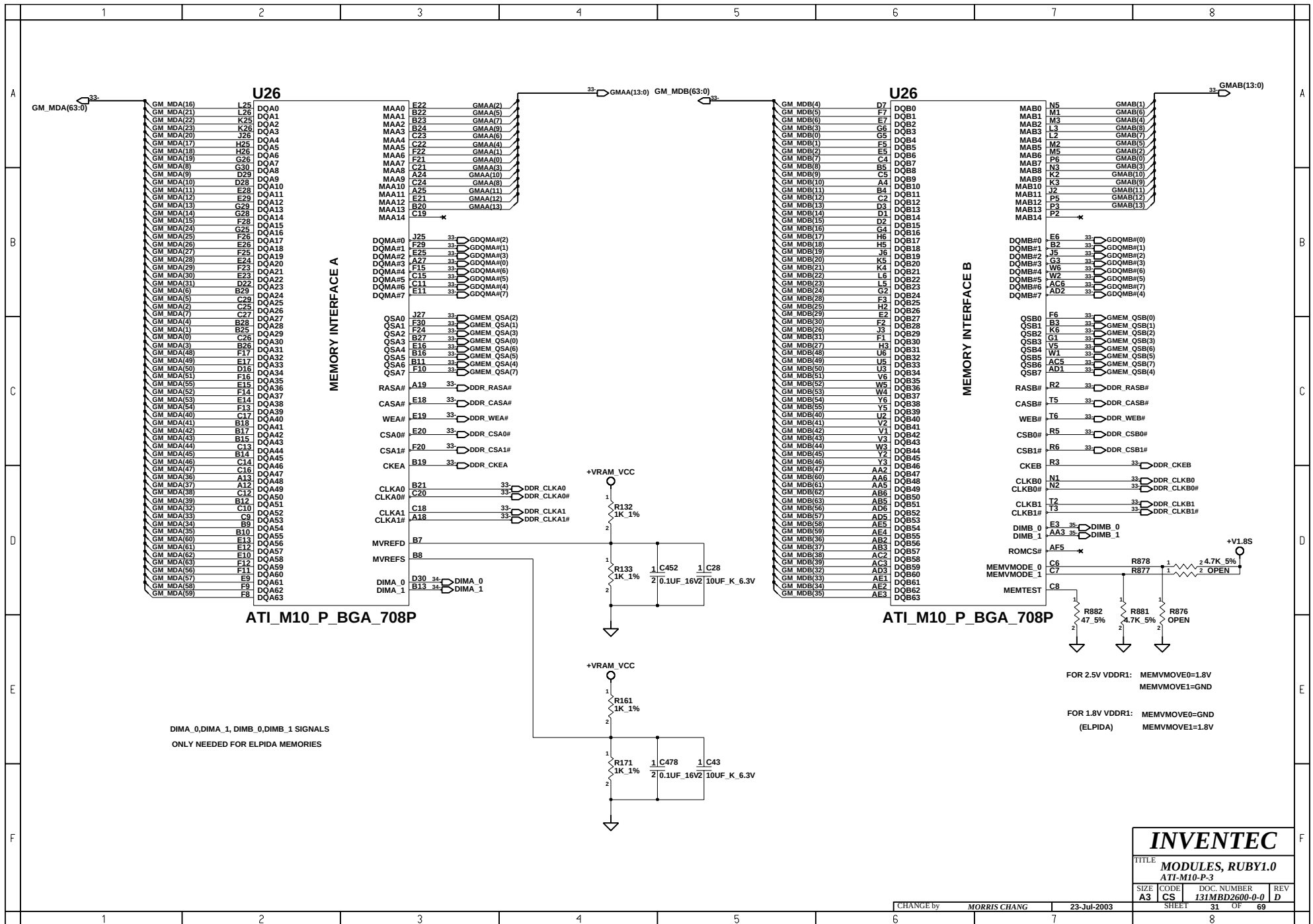
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A3	CS	I31MBD2600-0-0	D

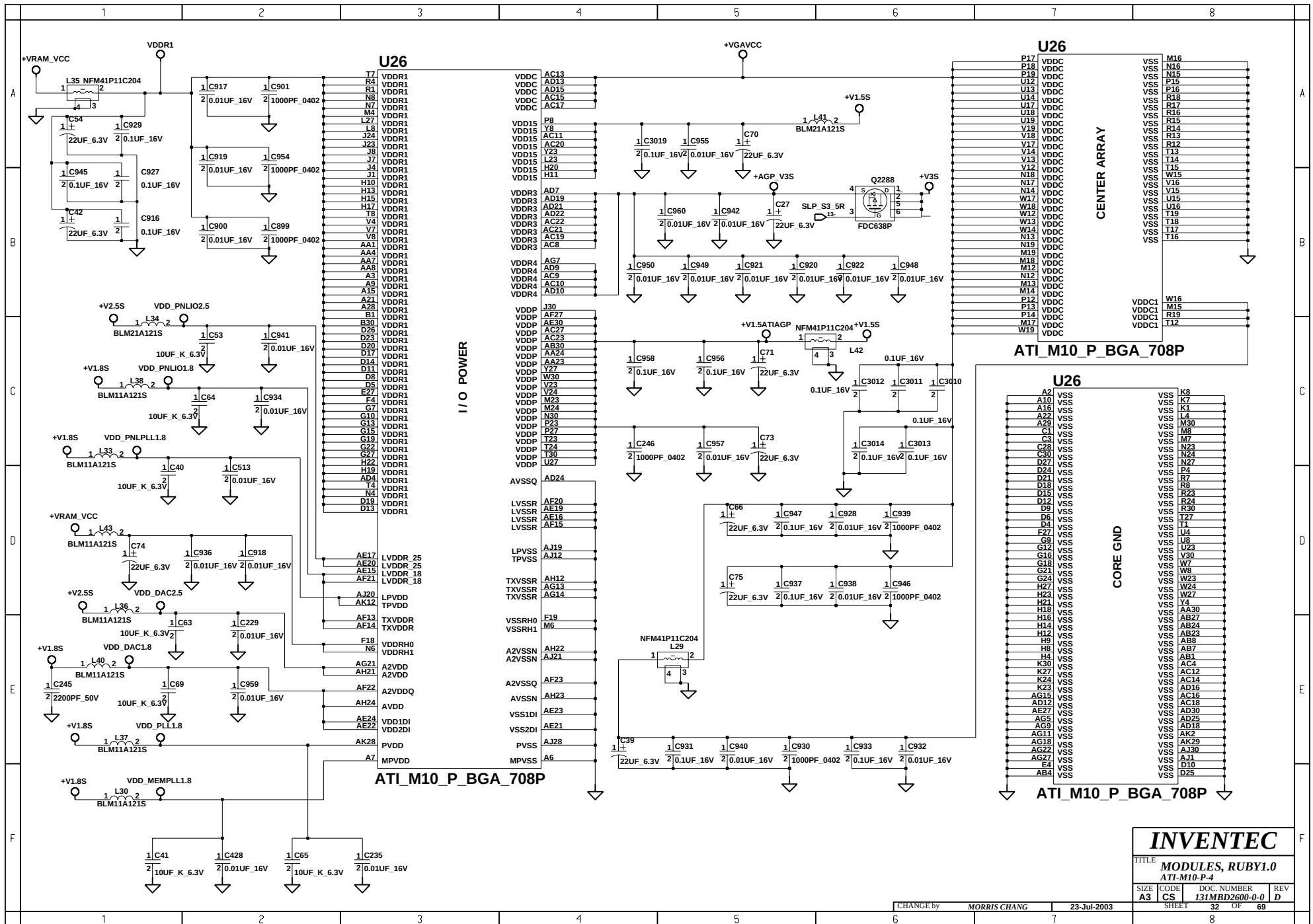
CHANGE by **MORRIS CHANG** 23-Jul-2003

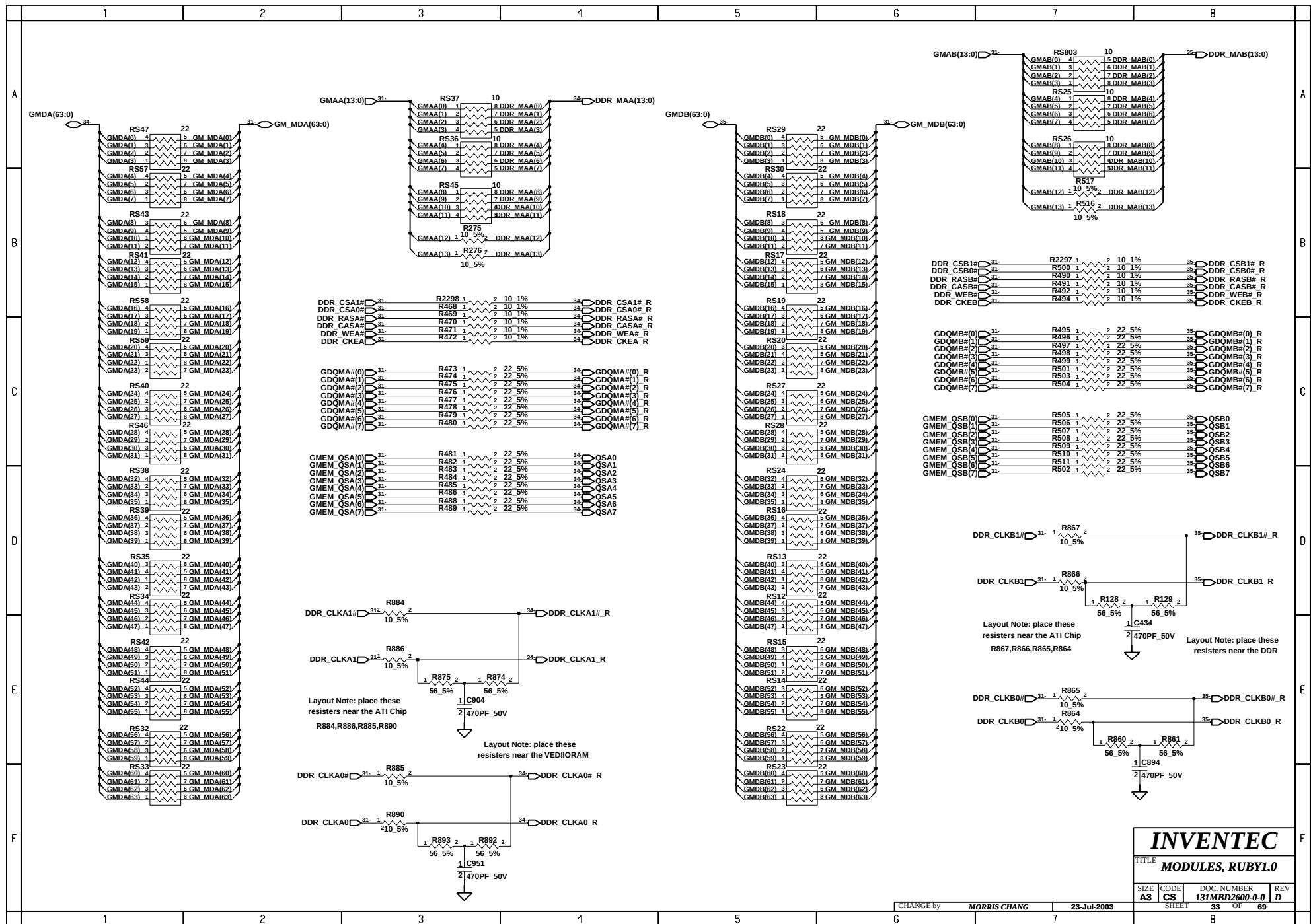
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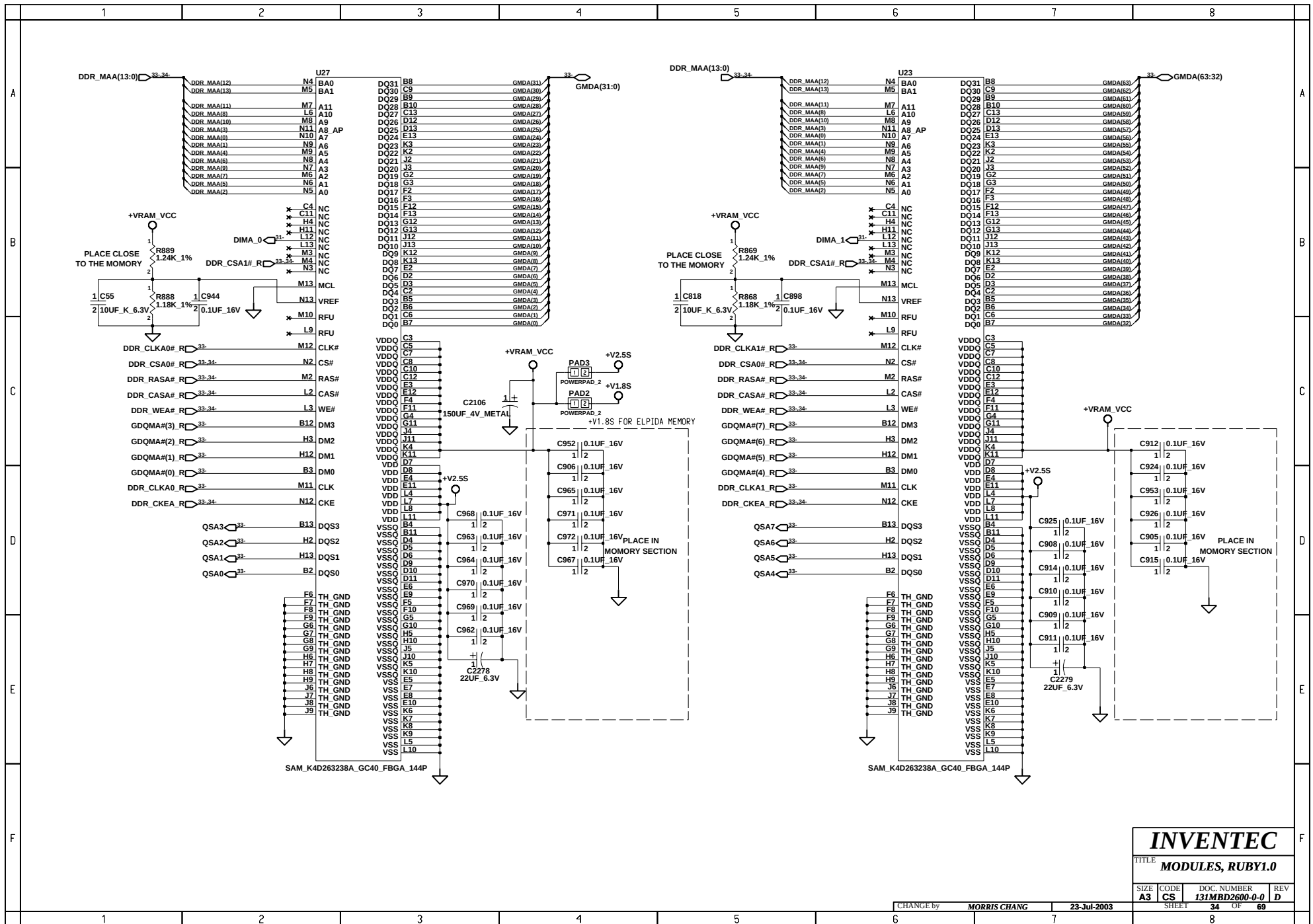












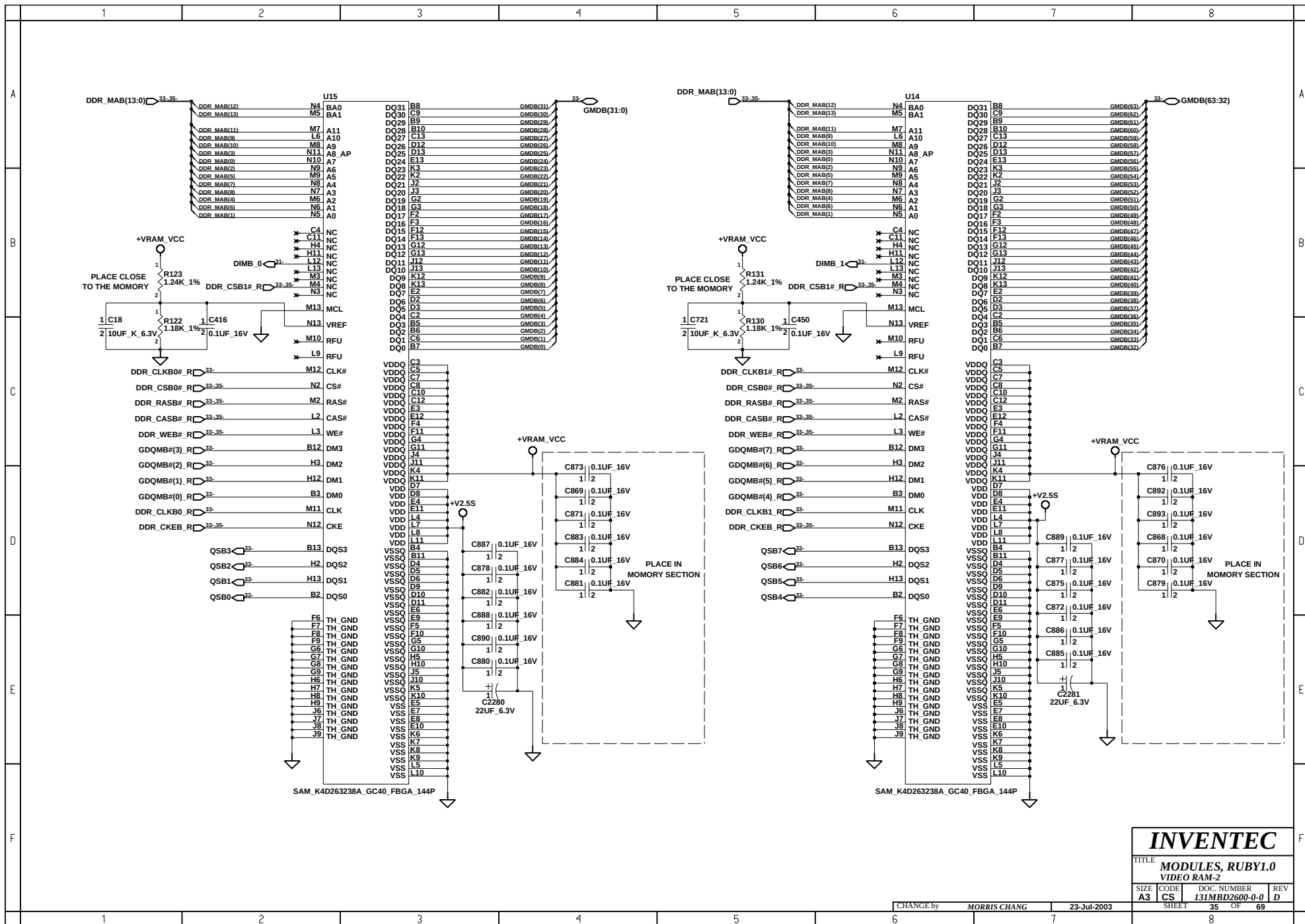
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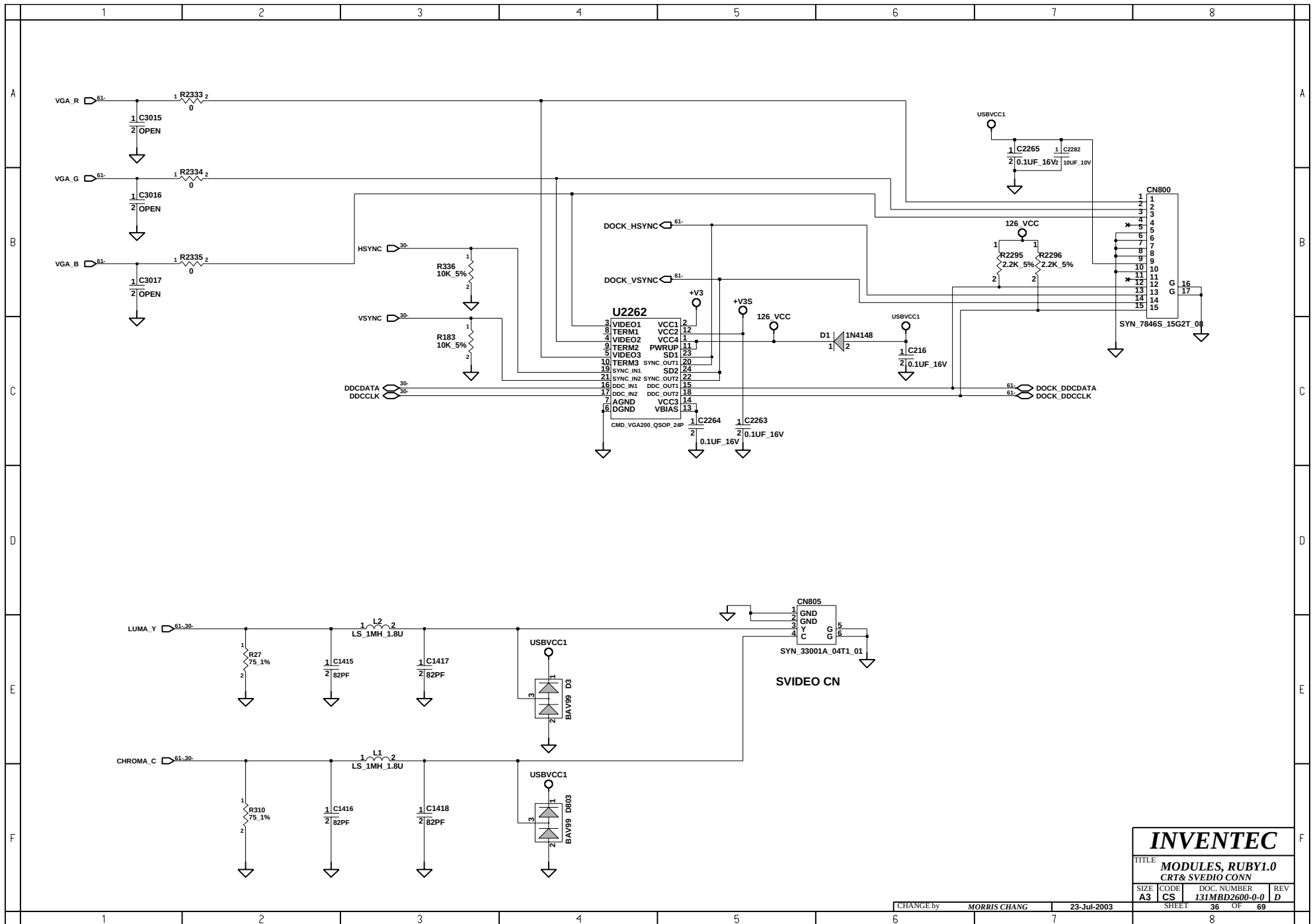
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MODULES, RUBY1.0

SIZE	CODE	DOC. NUMBER	REV
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CHANGE by **MORRIS CHANG** 23-Jul-2003

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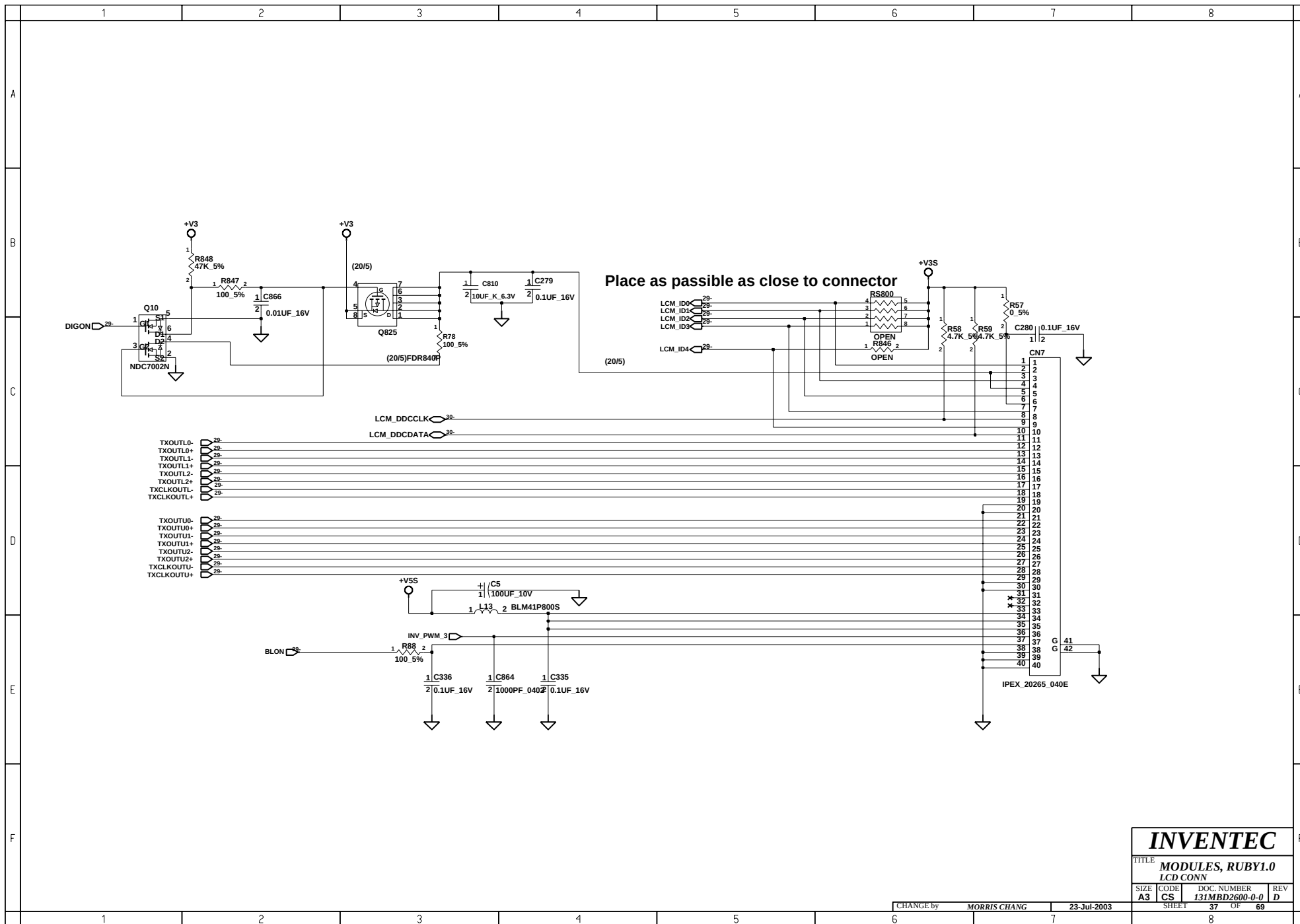
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TITLE: **MODULES, RUBY1.0**
CRT & SVIDEO CONN

SIZE	CODE	DOC. NUMBER	REV
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CHANGE by: MORRIS CHANG 23-Jul-2003

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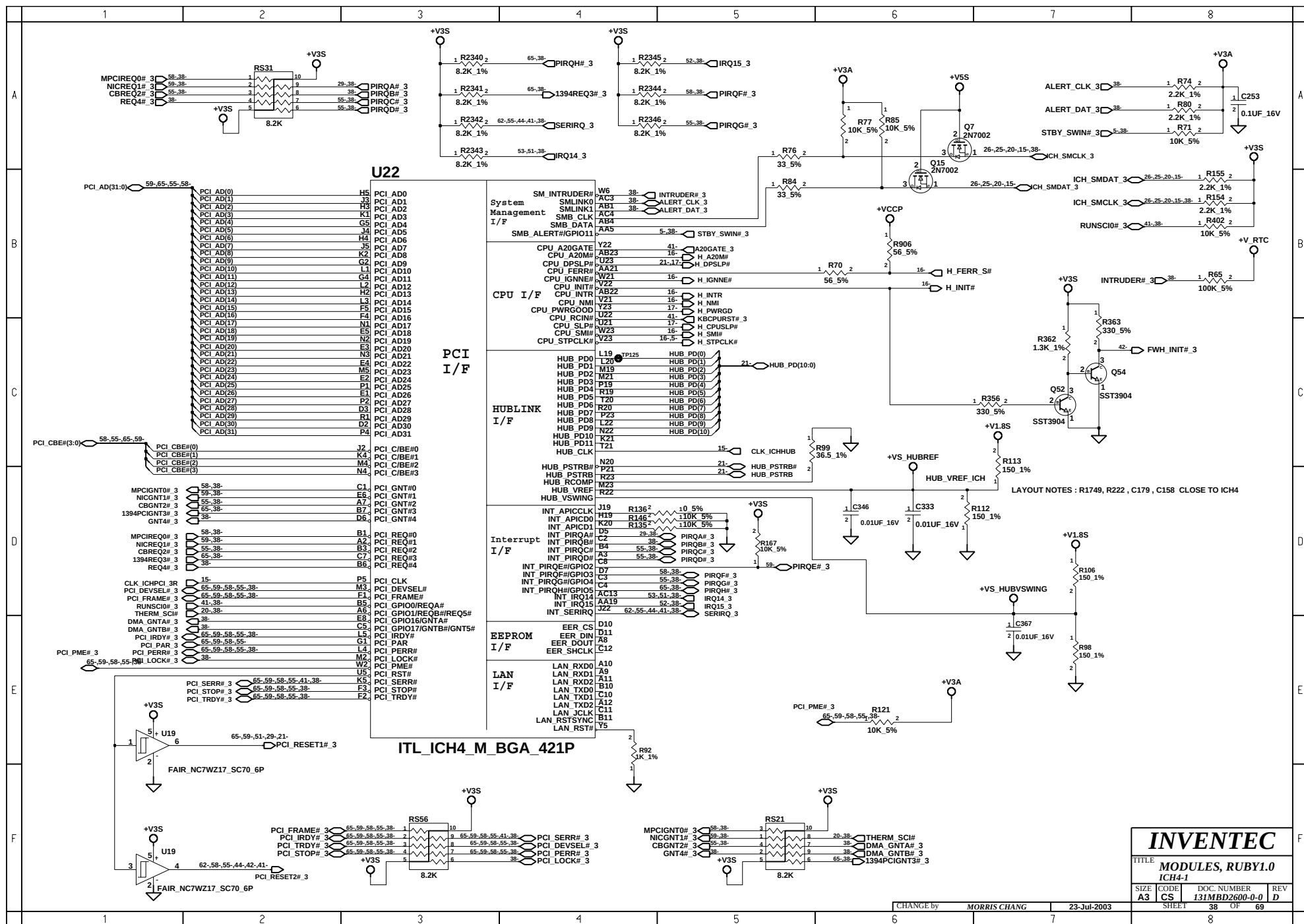
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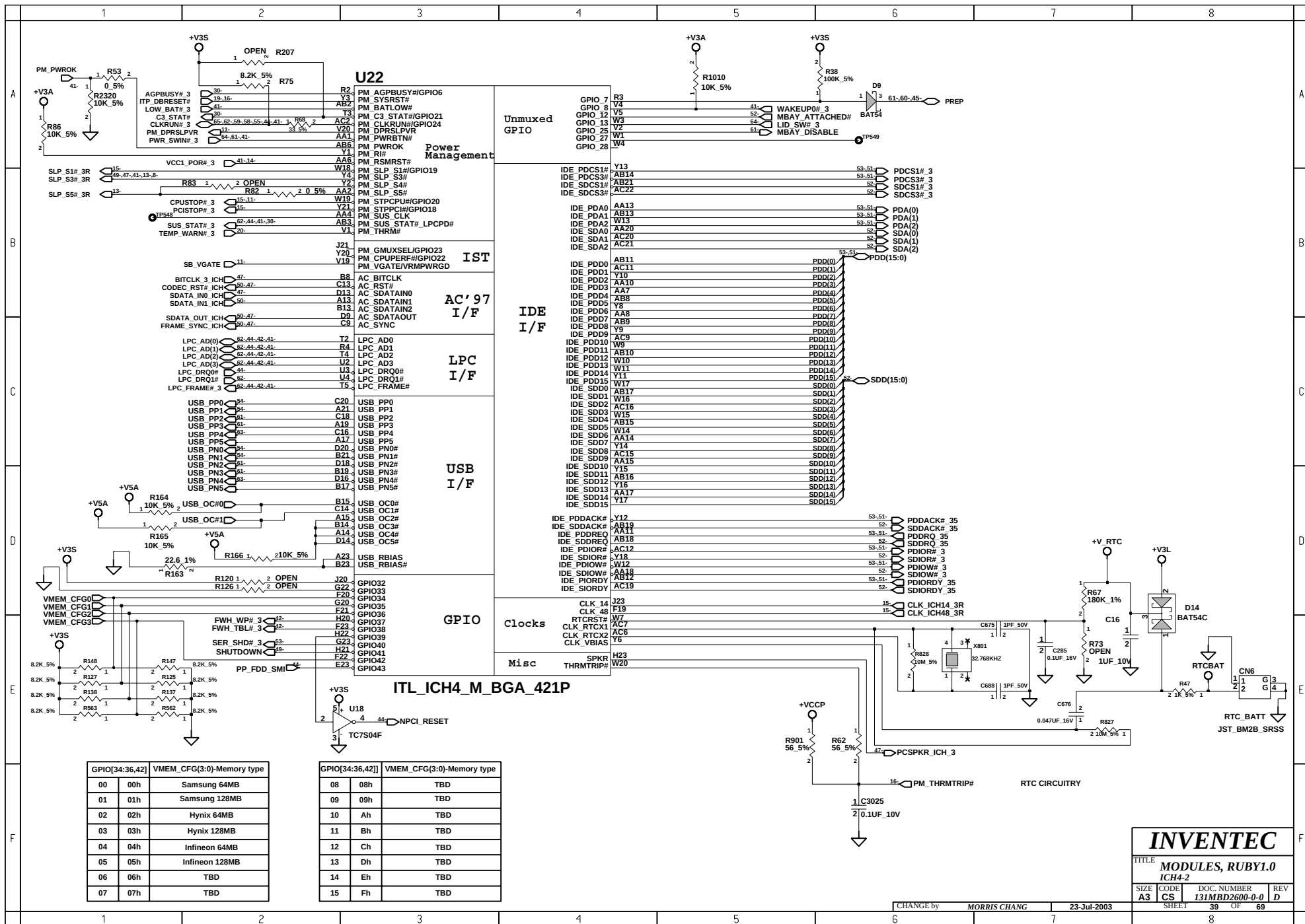
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LCD CONN

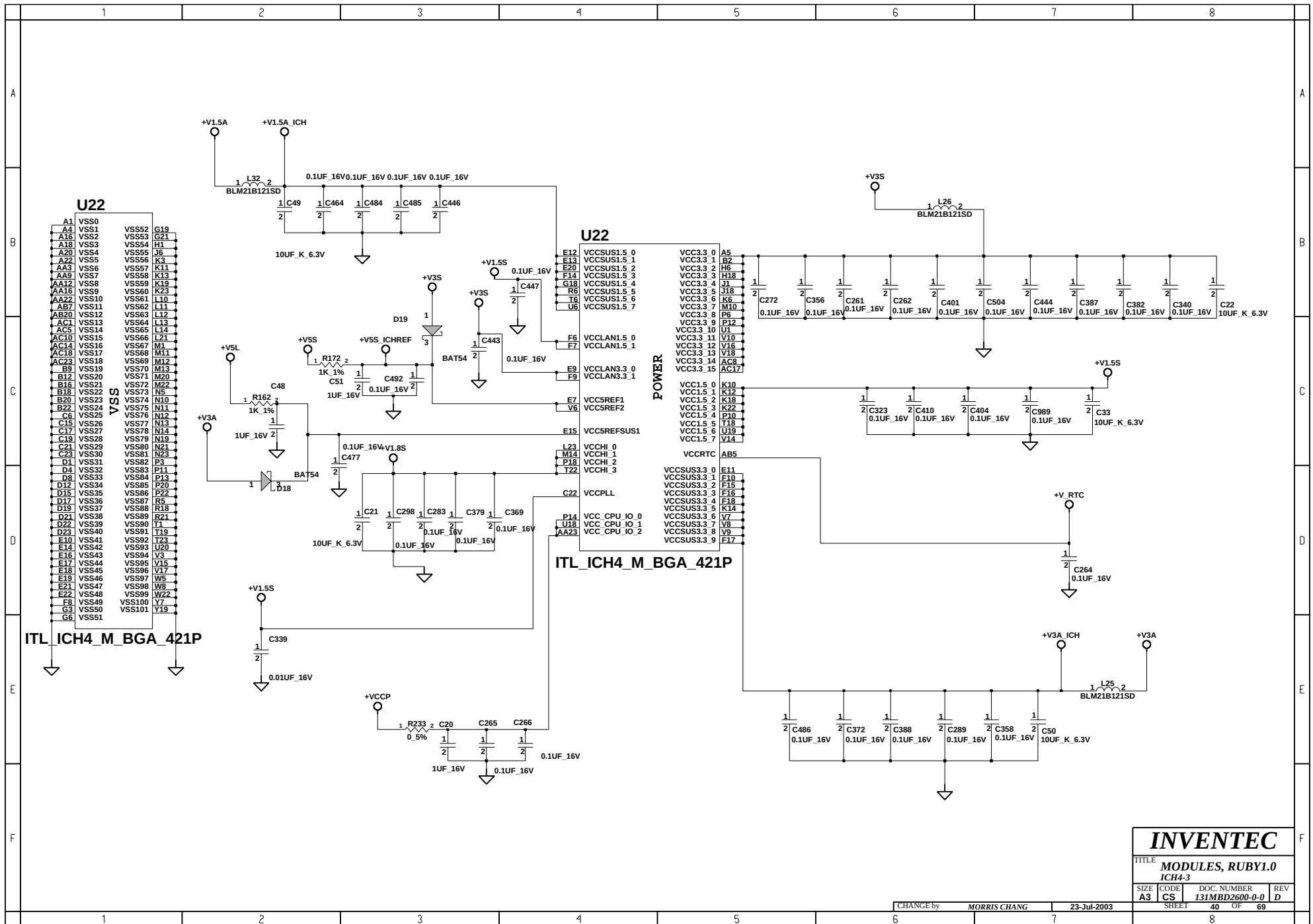
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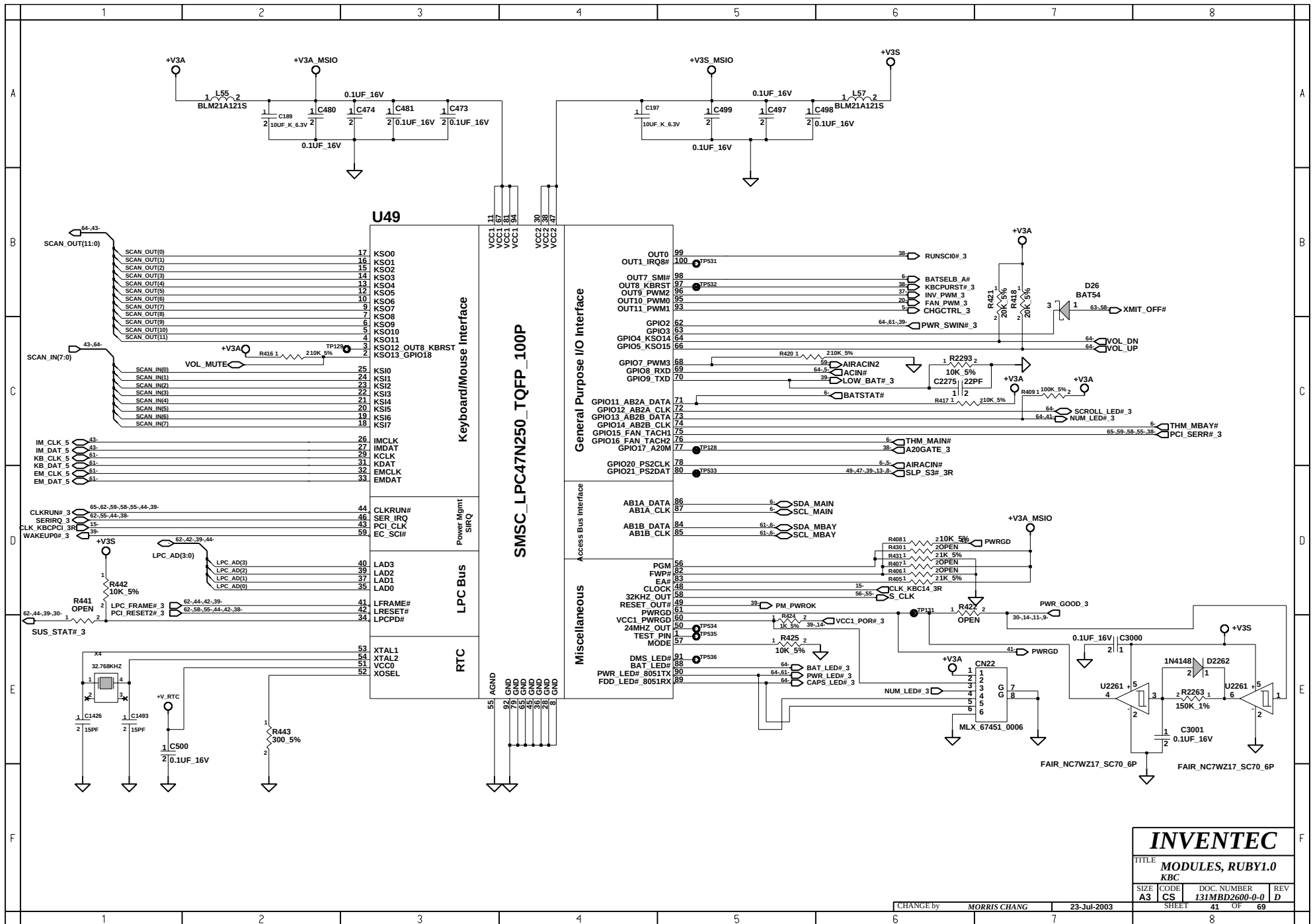
CHANGE by **MORRIS CHANG** 23-Jul-2003

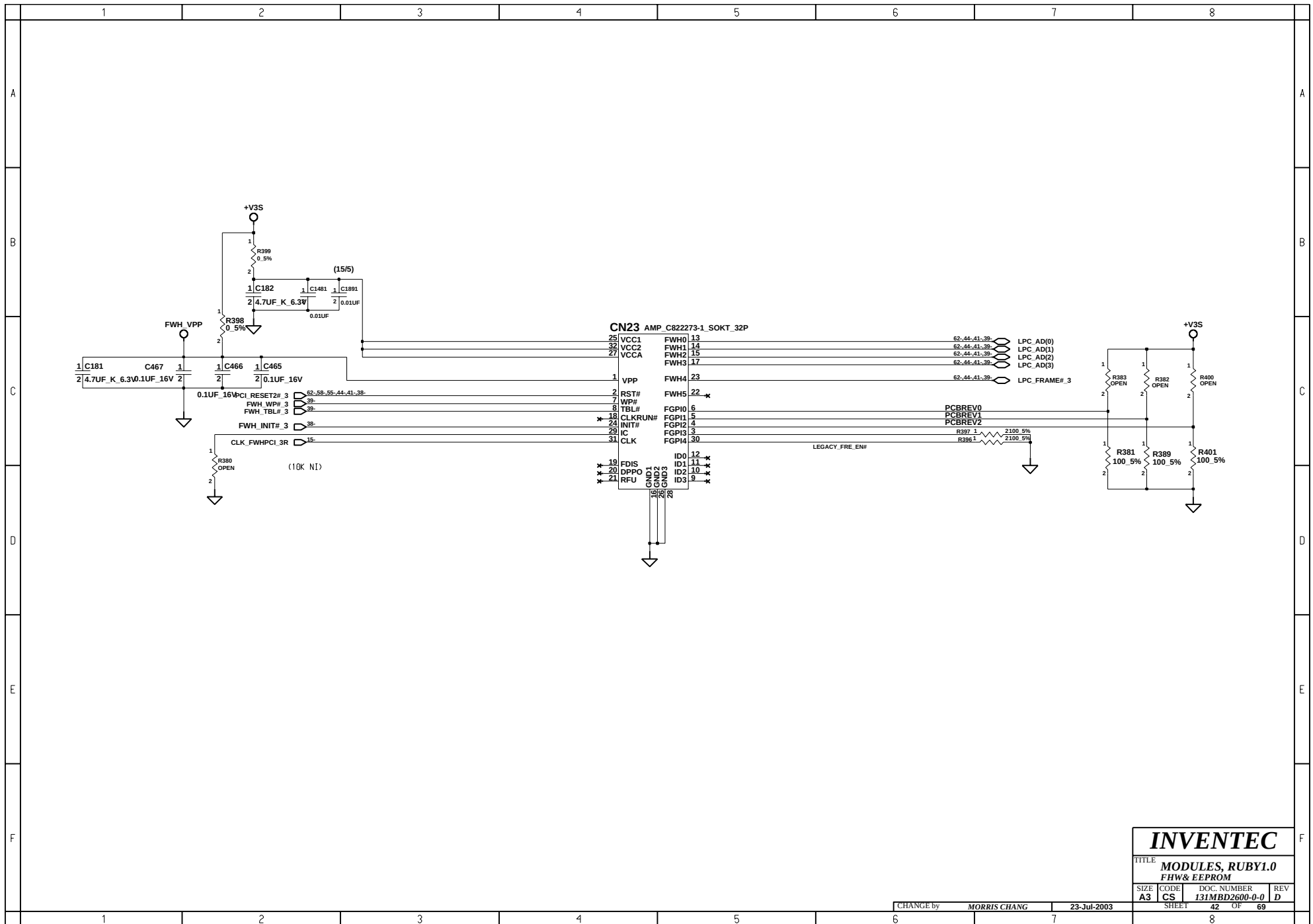
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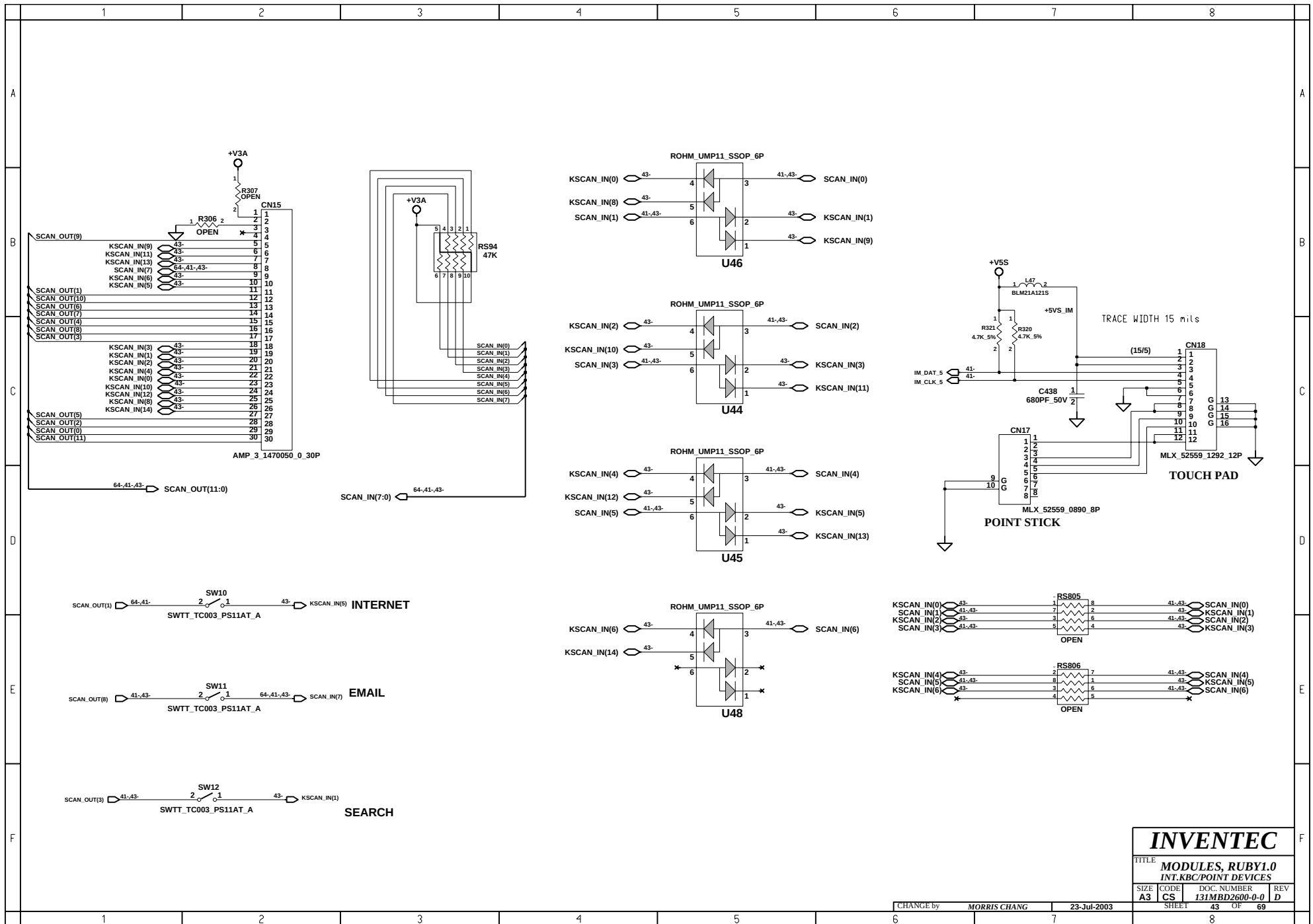


INVENTEC

TITLE
**MODULES, RUBY1.0
FWH& EEPROM**

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SHEET 42		OF 69	

CHANGE by **MORRIS CHANG** 23-Jul-2003



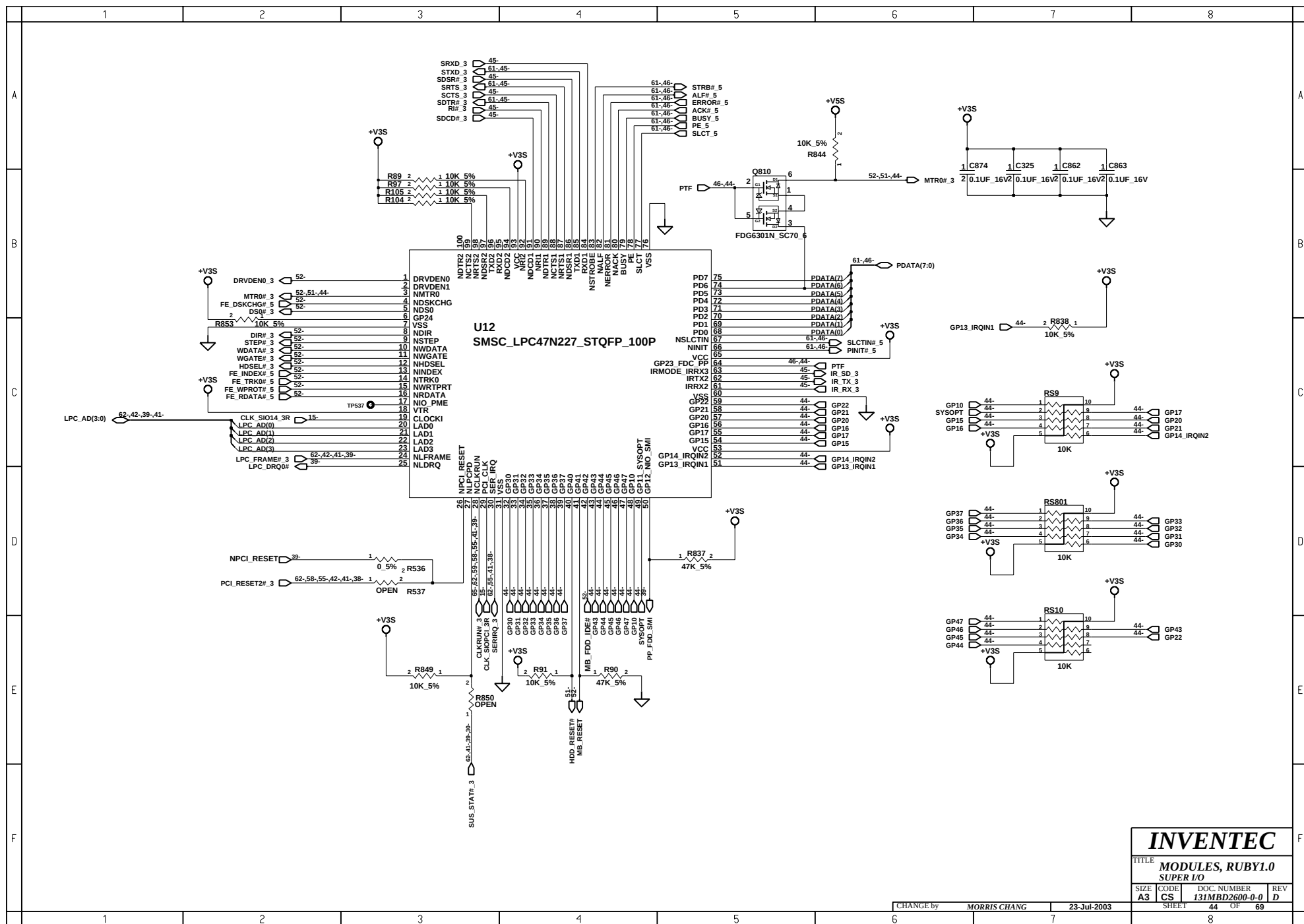
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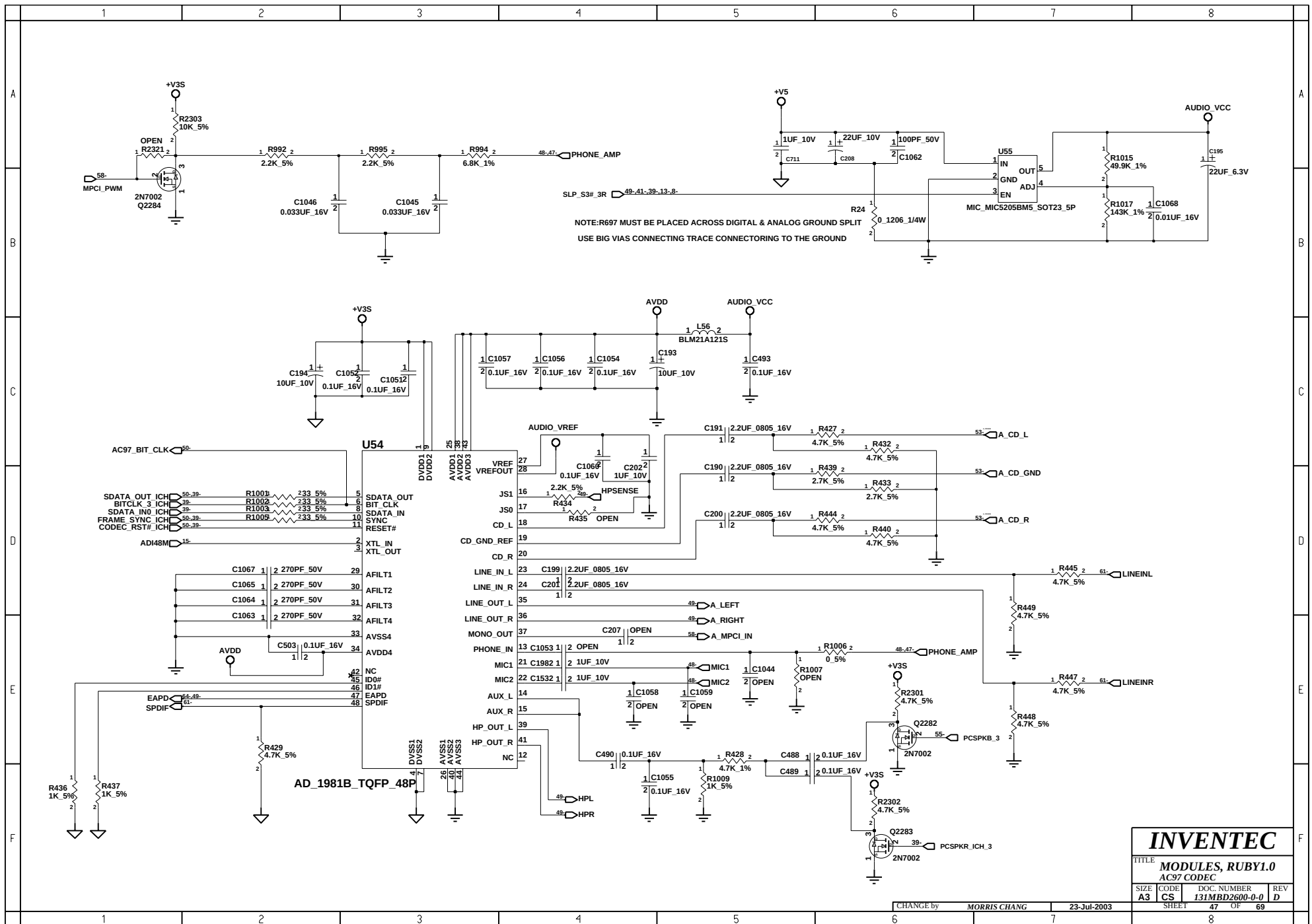
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MODULES, RUBY1.0
INT.KBC/POINT DEVICES

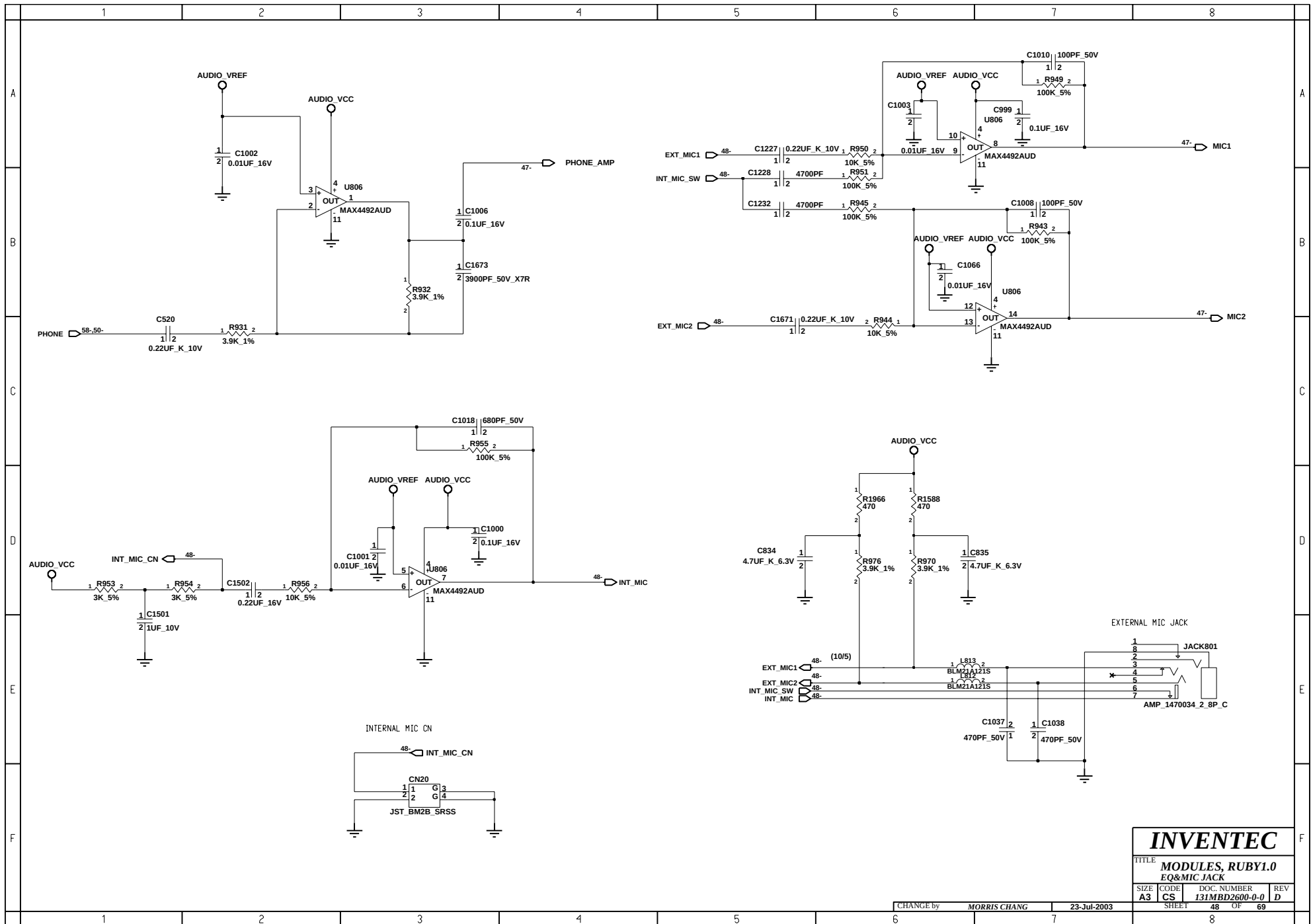
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CHANGE by **MORRIS CHANG** 23-Jul-2003

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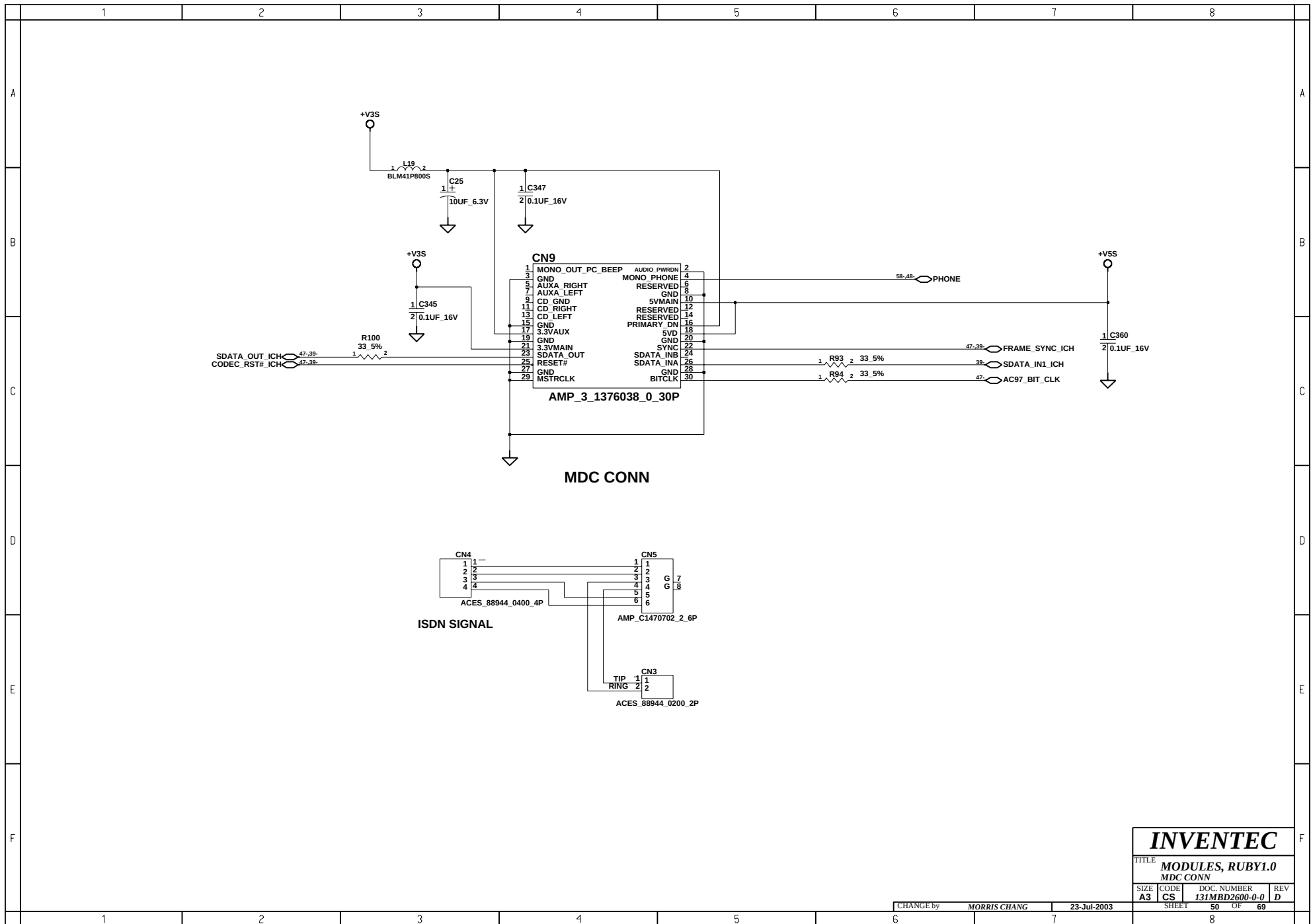
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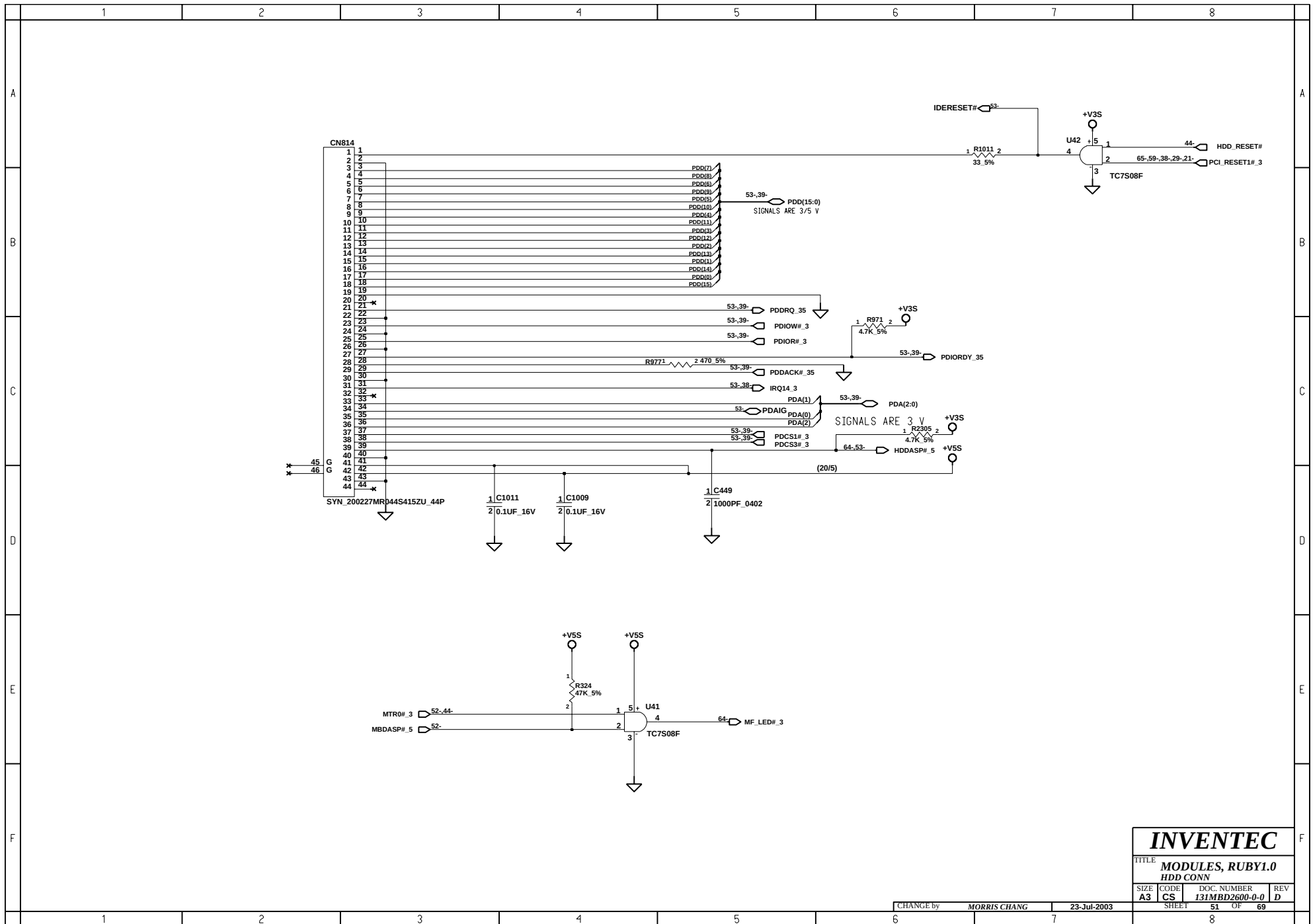
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MODULES, RUBY1.0
EQ&MIC JACK

SIZE	CODE	DOC. NUMBER	REV
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CHANGE by **MORRIS CHANG** 23-Jul-2003

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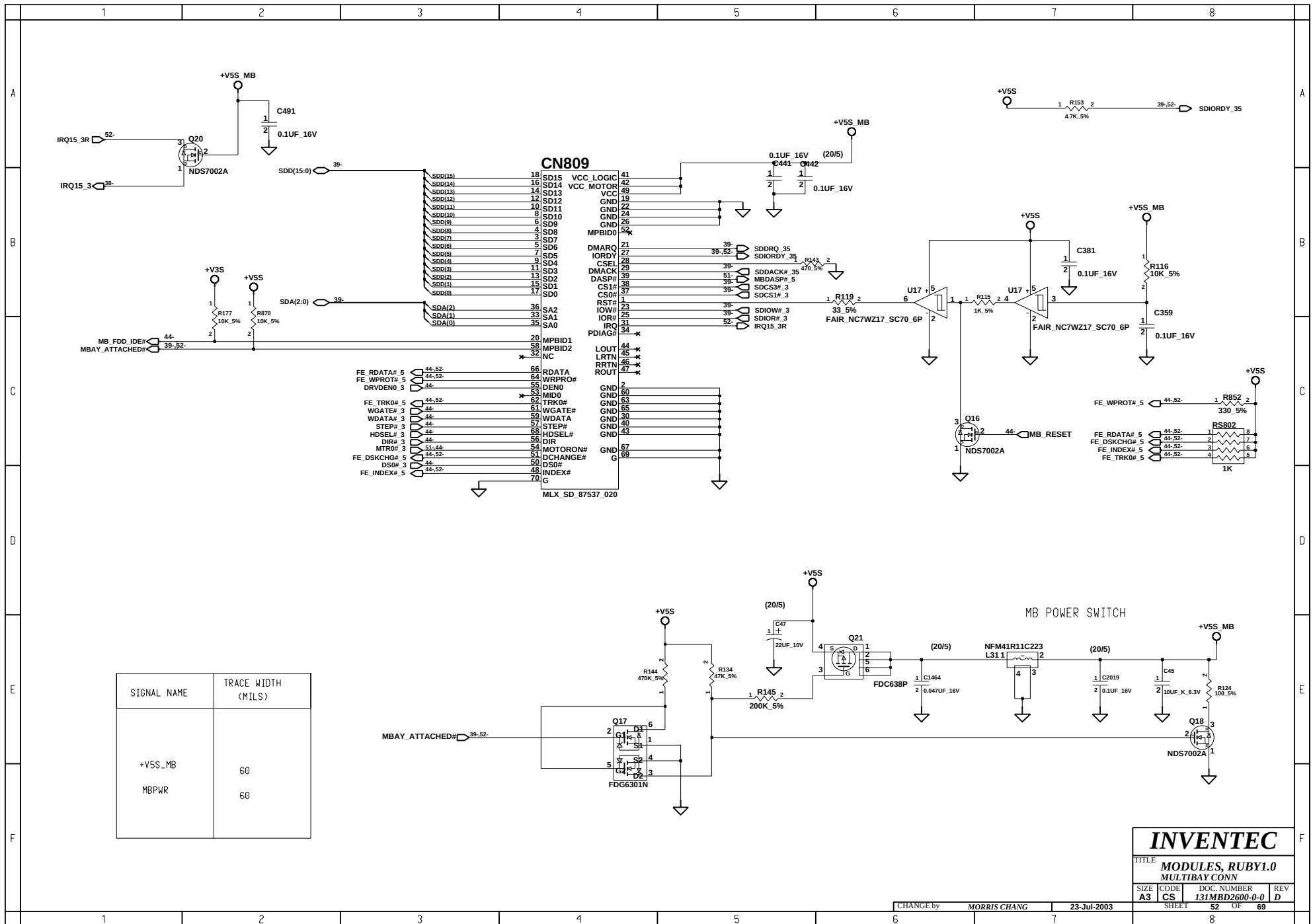
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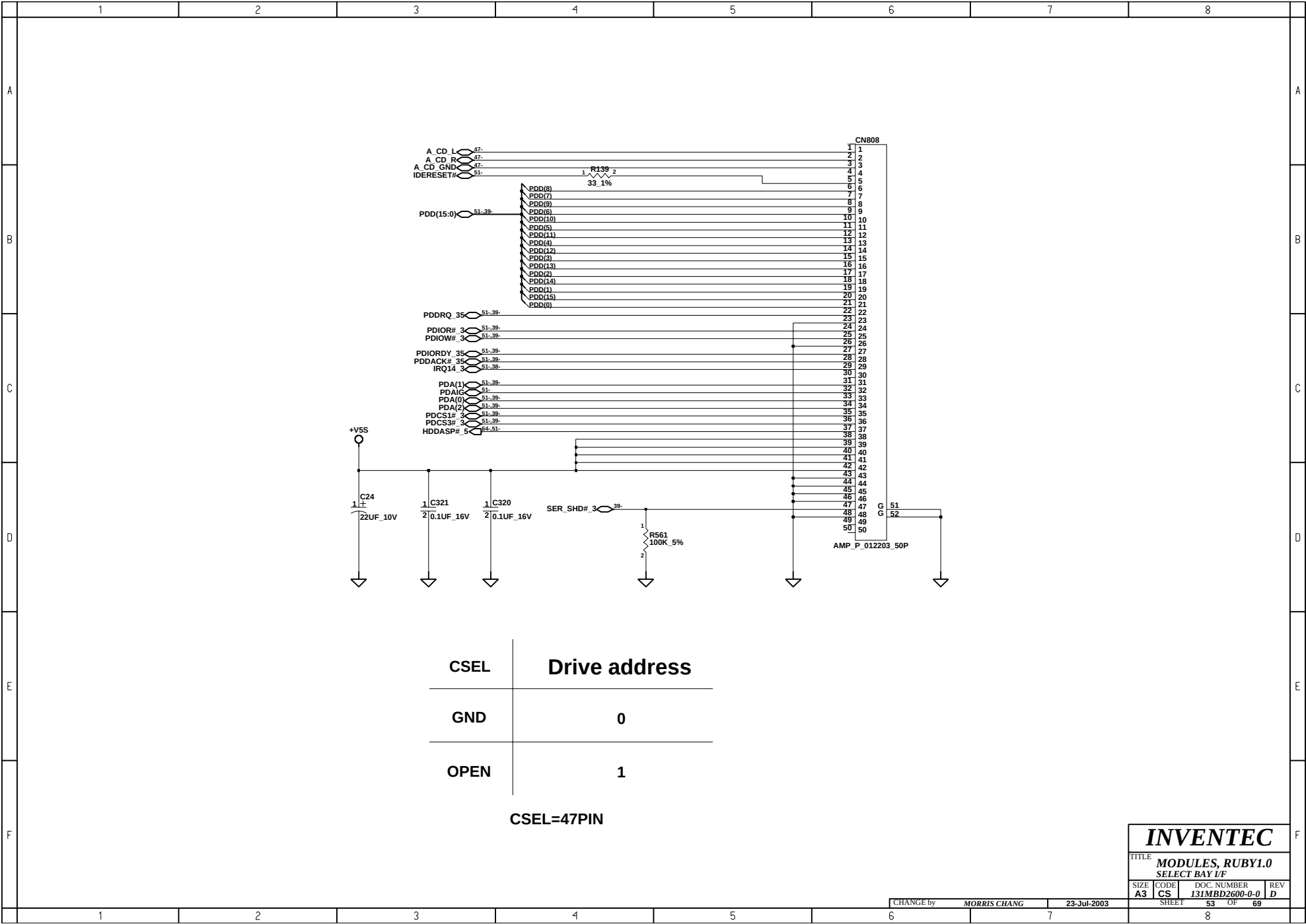
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MODULES, RUBY1.0
HDD CONN

SIZE	CODE	DOC. NUMBER	REV
A3	CS	131MBD2600-0-0	D

CHANGE by MORRIS CHANG 23-Jul-2003

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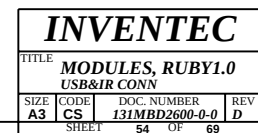
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TITLE
MODULES, RUBY1.0
SELECT BAY I/F

SIZE A3	CODE CS	DOC. NUMBER I31MBD2600-0-0	REV D
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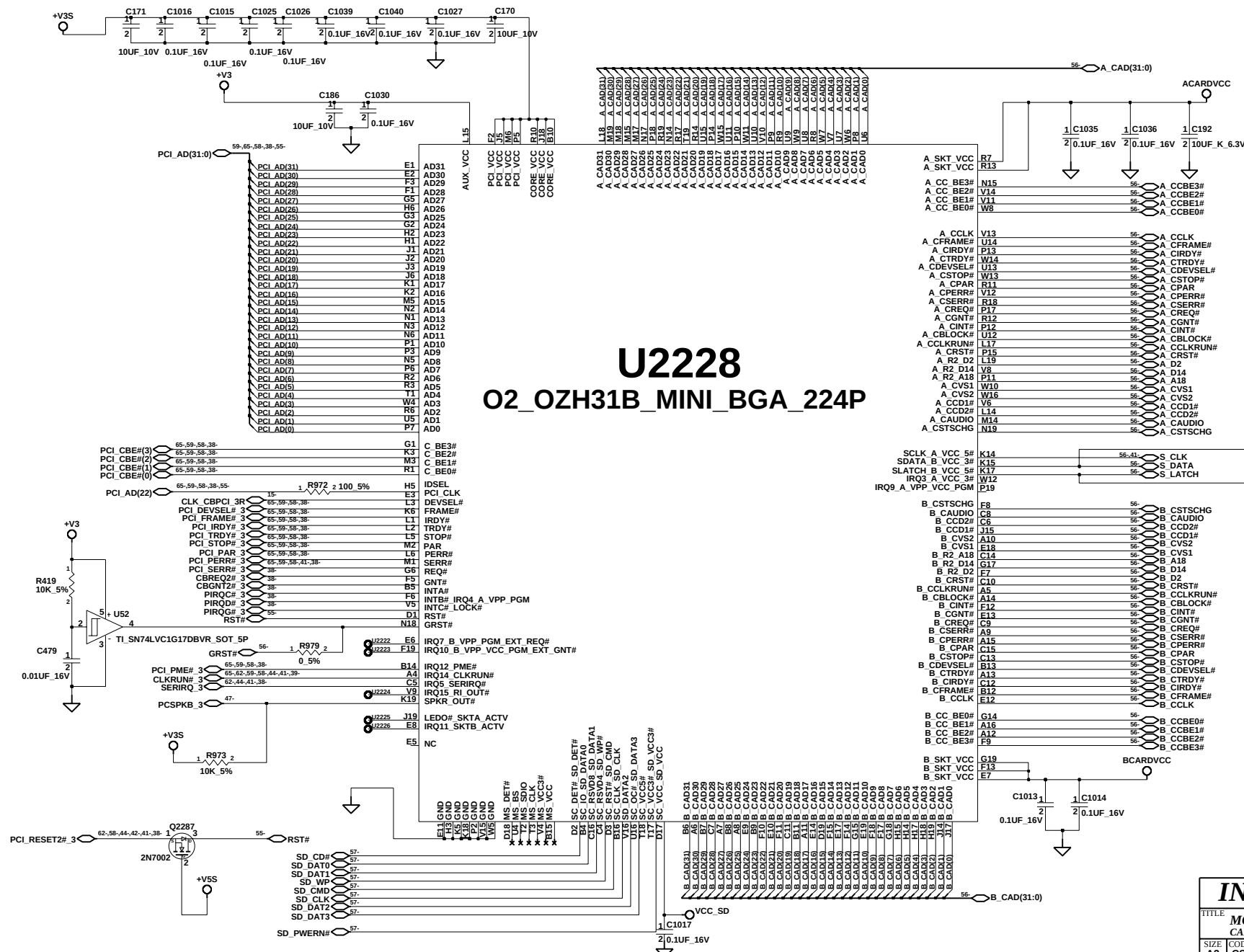
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U2228

O2_OZH31B_MINI_BGA_224P



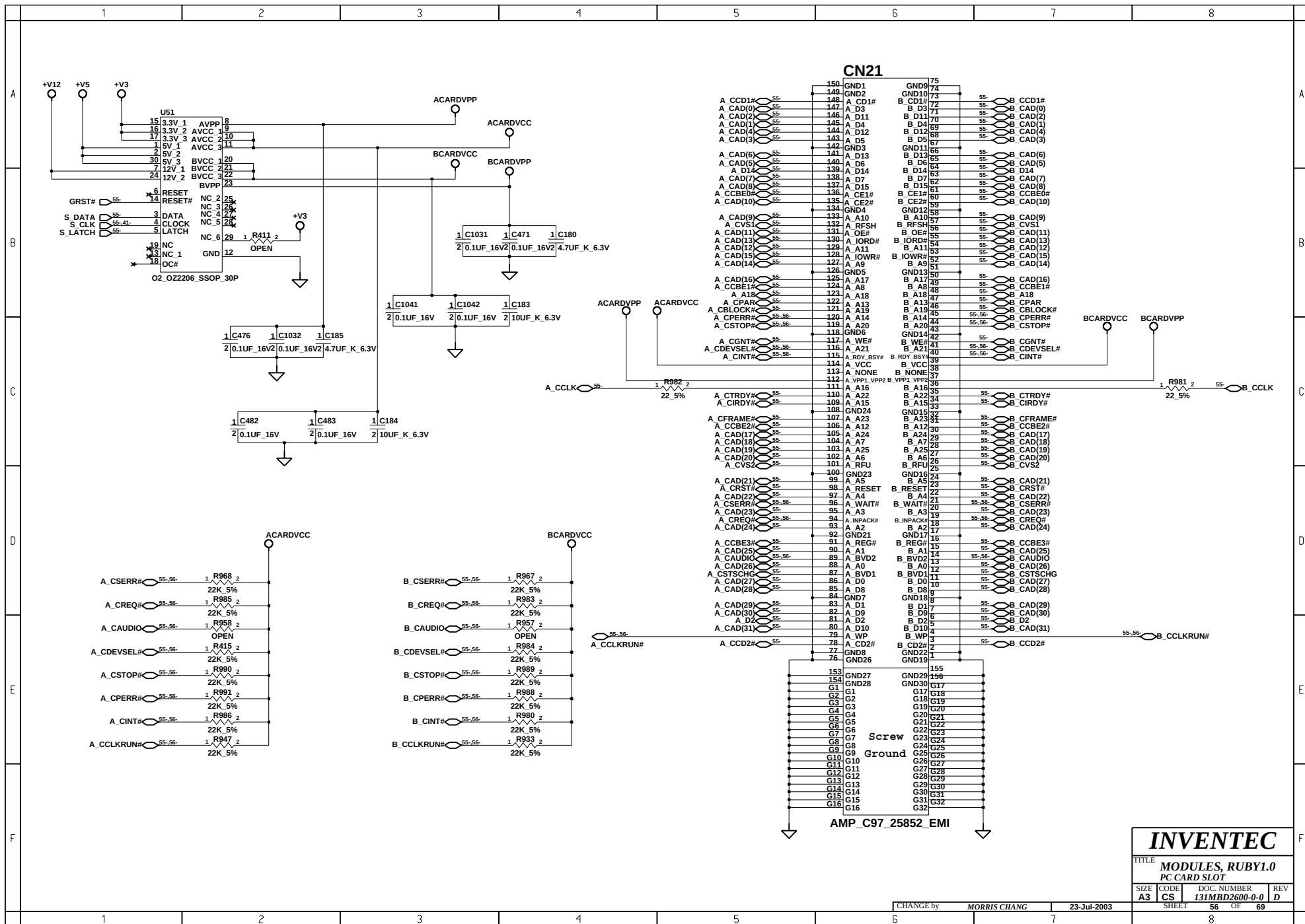
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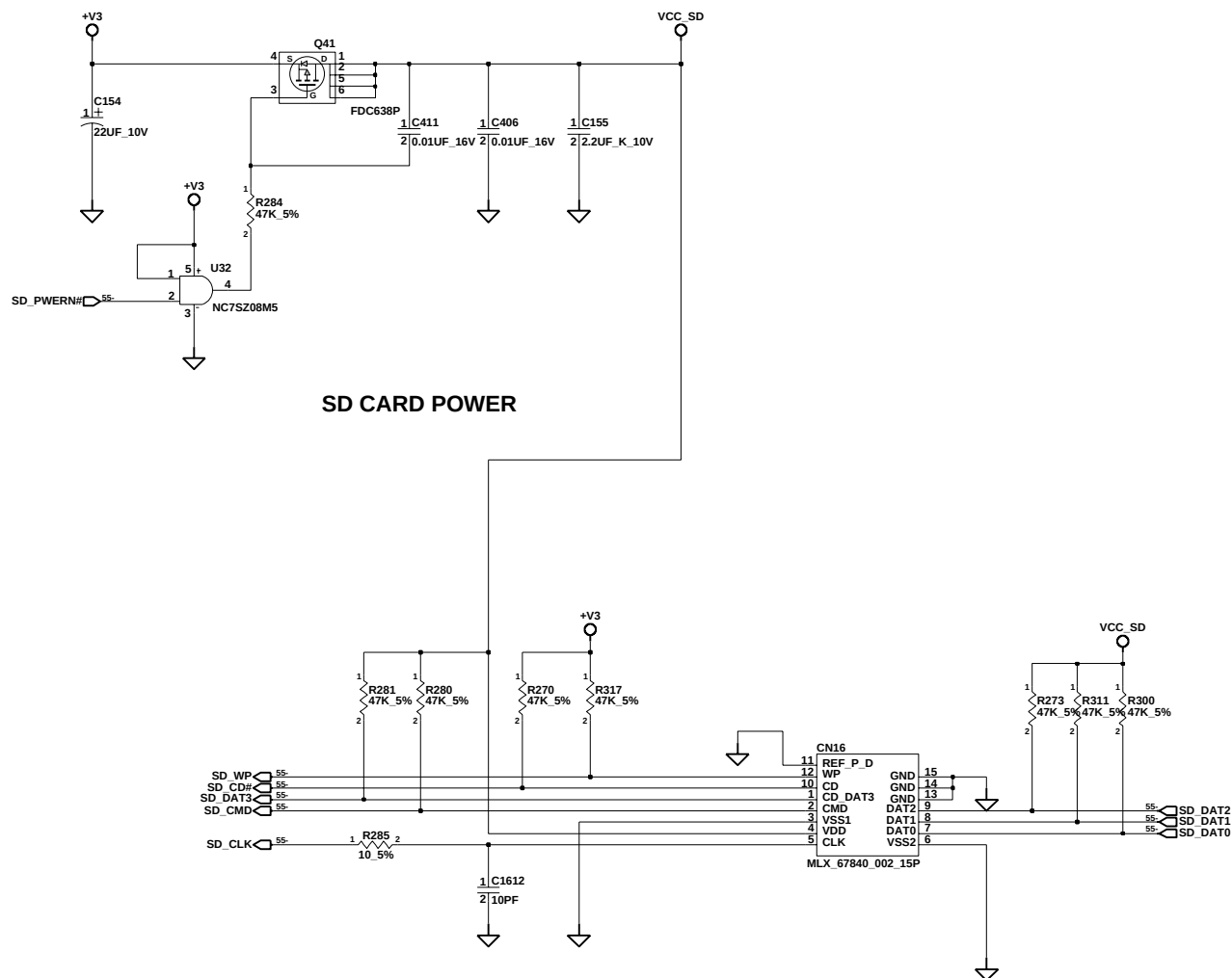
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MODULES, RUBY1.0
CARDBUS CONTROLLER

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I31MBD2600-0-0	D

CHANGE by MORRIS CHANG 23-Jul-2003

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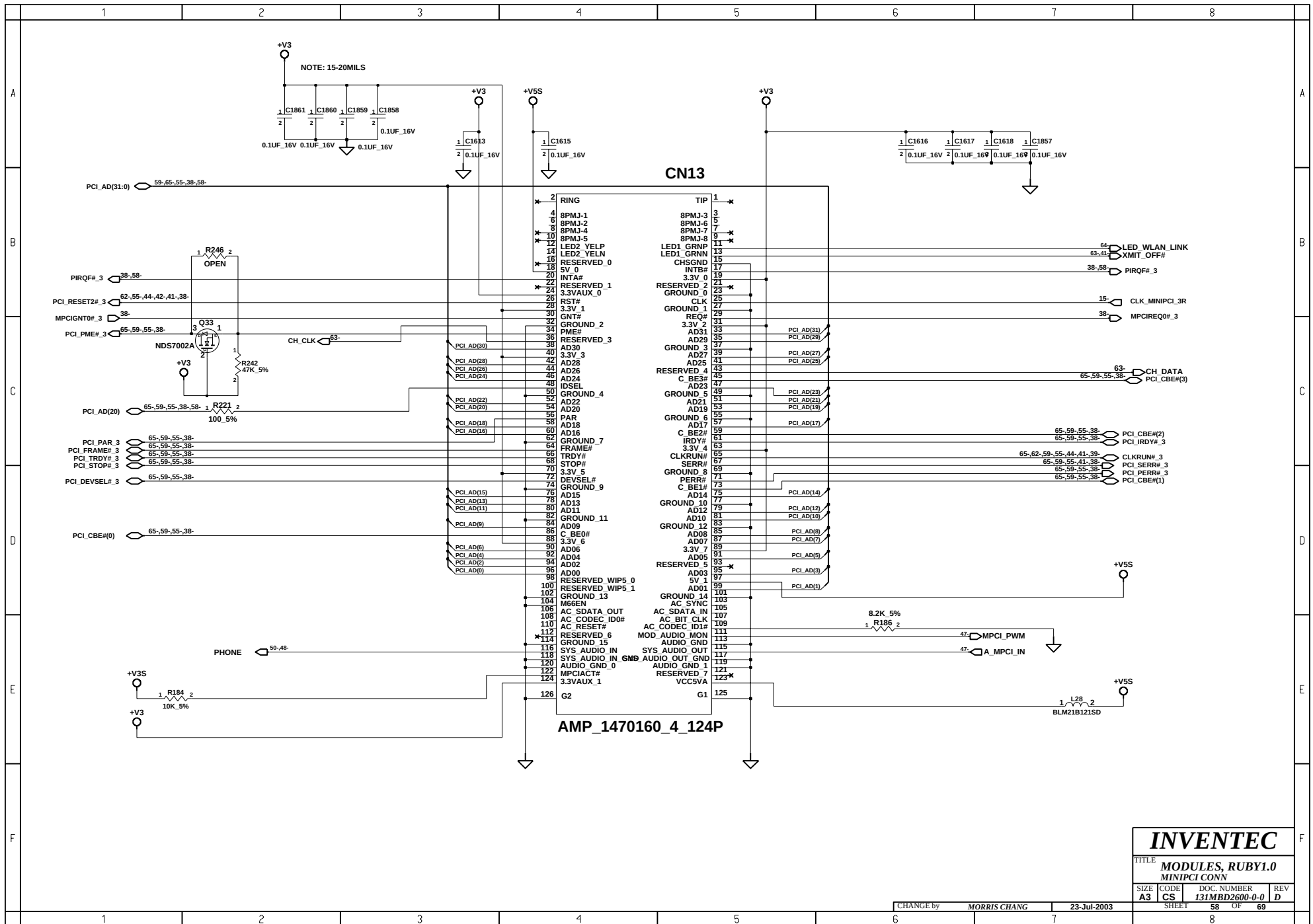


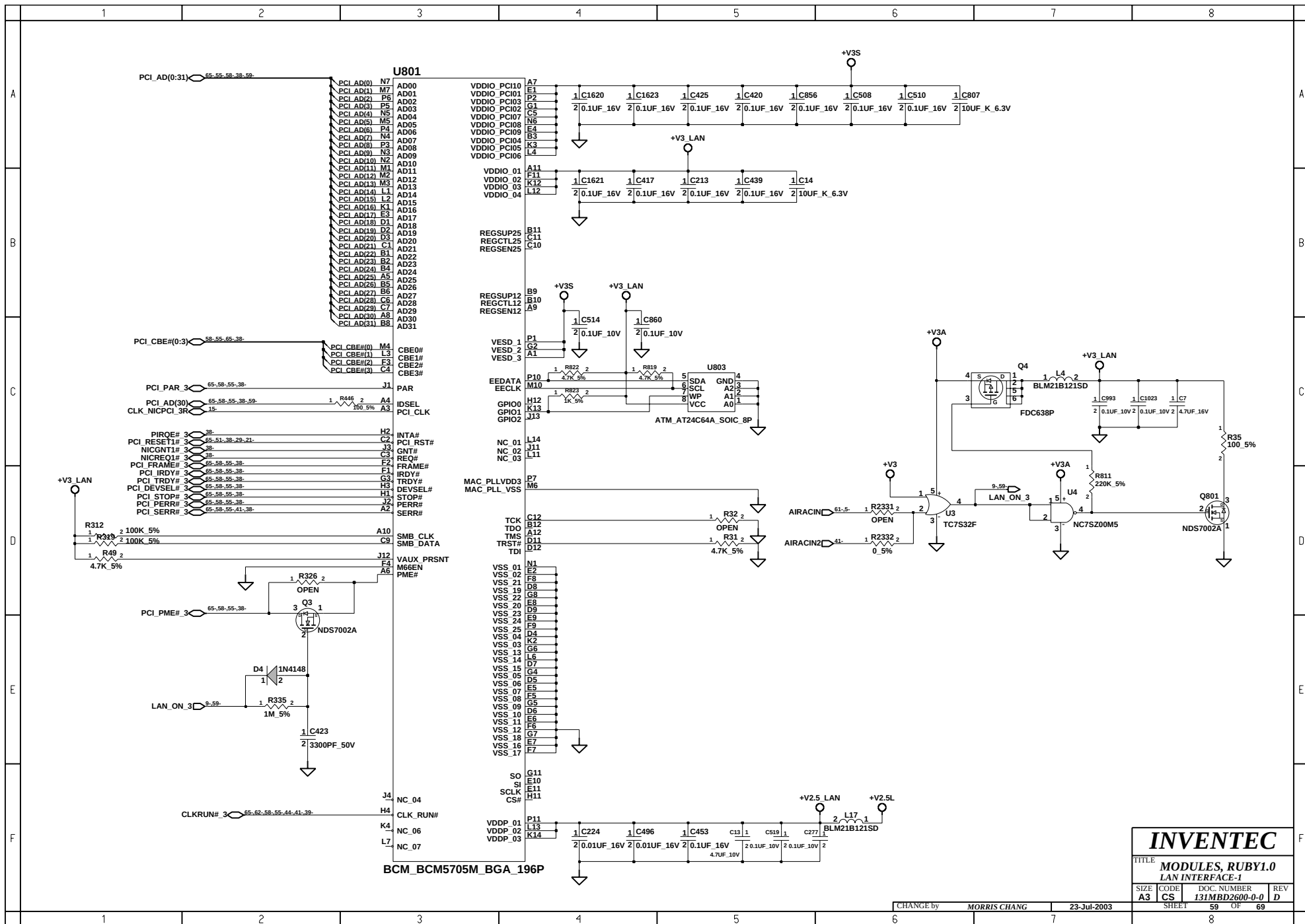


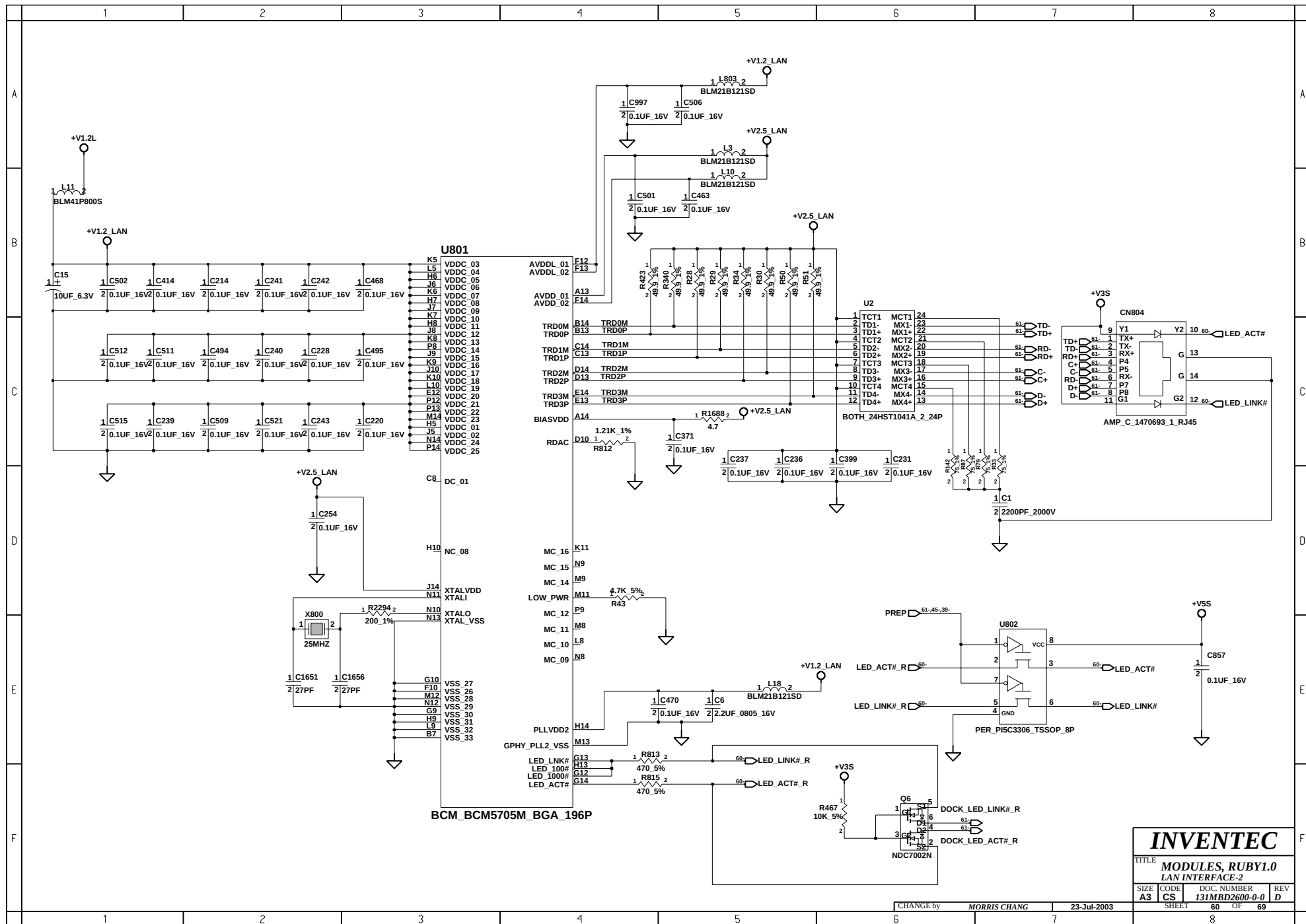
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SD CARD CONN			
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CHANGE by		SHEET	OF
MORRIS CHANG		57	69

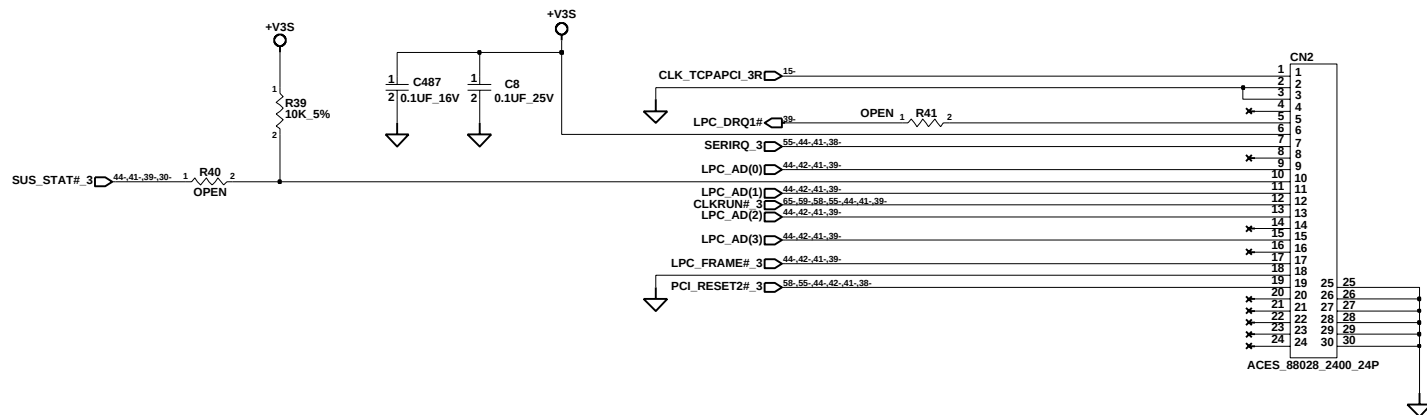
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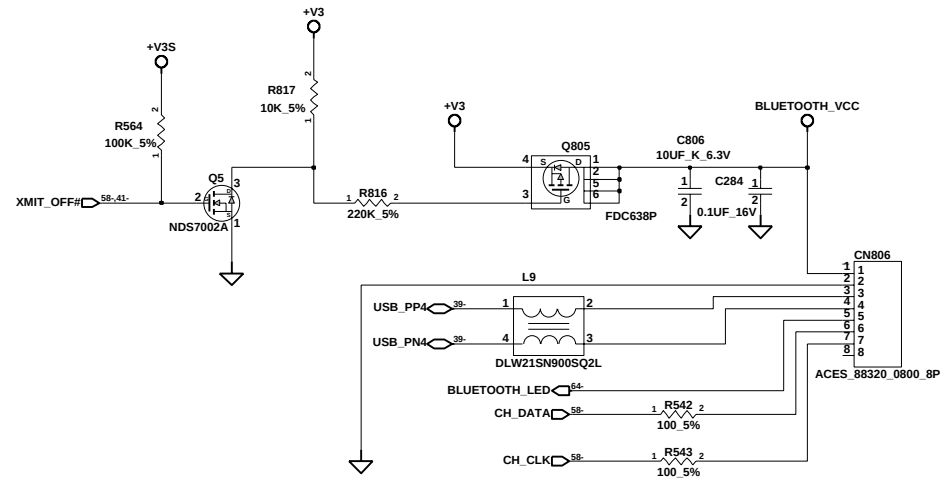




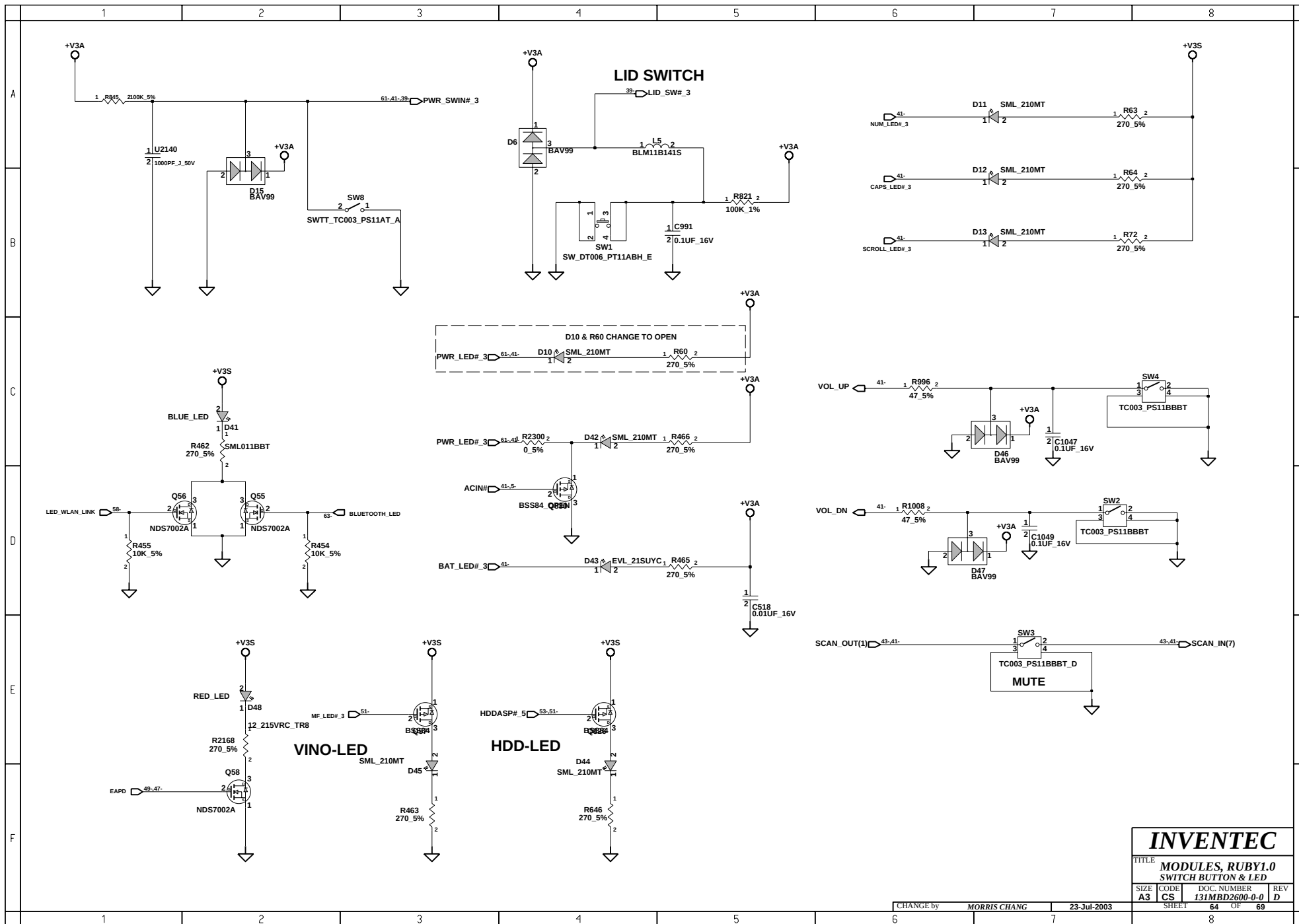


AMP 20PIN CONNECTOR
MOTHERBOARD SIDE
ACES_88028_2400_24P

INVENTEC			
TITLE MODULES, RUBY1.0			
TCPA			
SIZE A3	CODE CS	DOC. NUMBER 131MBD2600-0-0	REV D
CHANGE by MORRIS CHANG		23-Jul-2003	
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INVENTEC			
TITLE			
MODULES, RUBY1.0			
BLUETOOTH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	131MBD2600-0-0	D
CHANGE by		23-Jul-2003	
MORRIS CHANG			
SHEET		63	OF 69



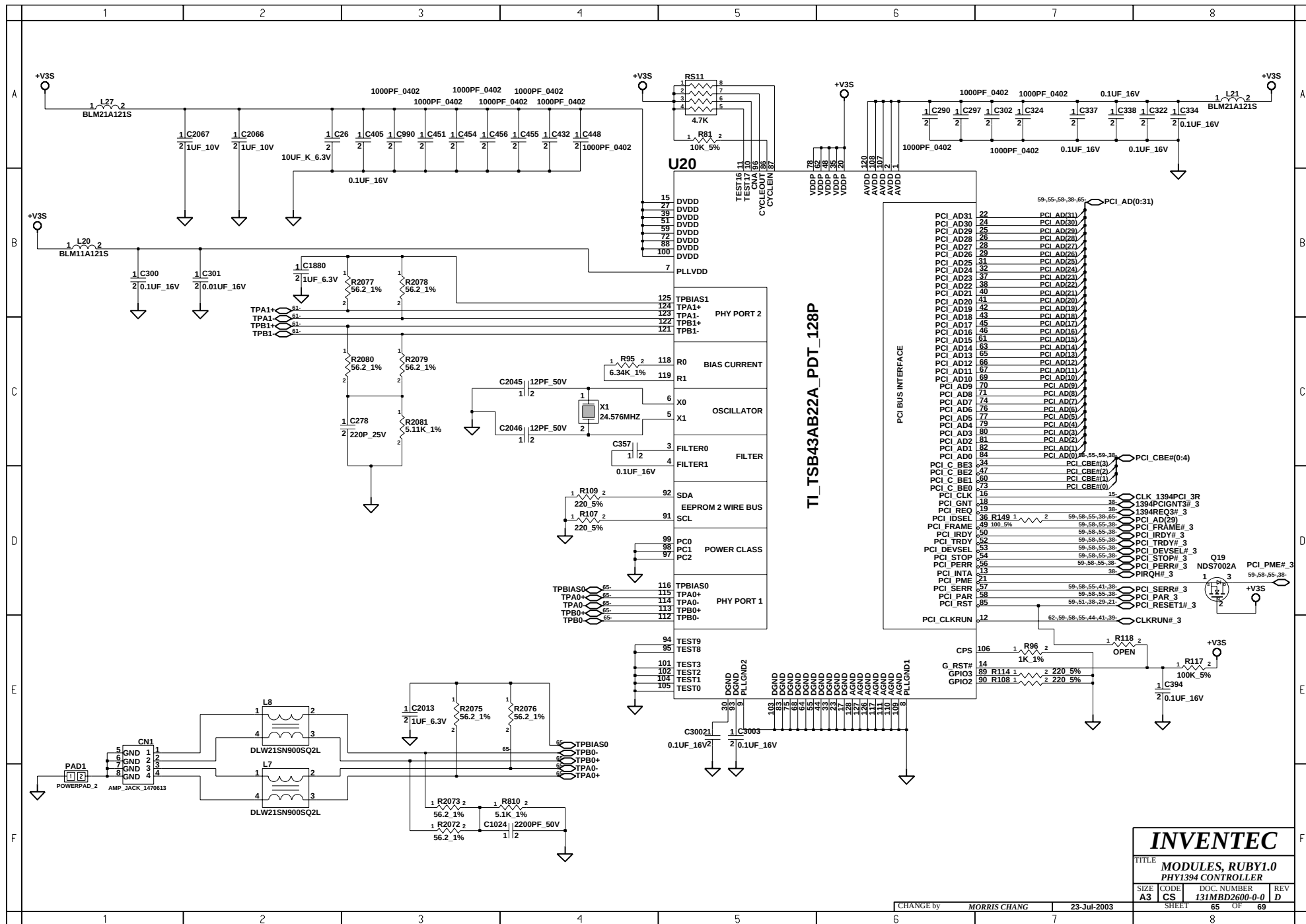
INVENTEC

TITLE
**MODULES, RUBY1.0
SWITCH BUTTON & LED**

SIZE A3	CODE CS	DOC. NUMBER I31MBD2600-0-0	REV D
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CHANGE by **MORRIS CHANG** 23-Jul-2003

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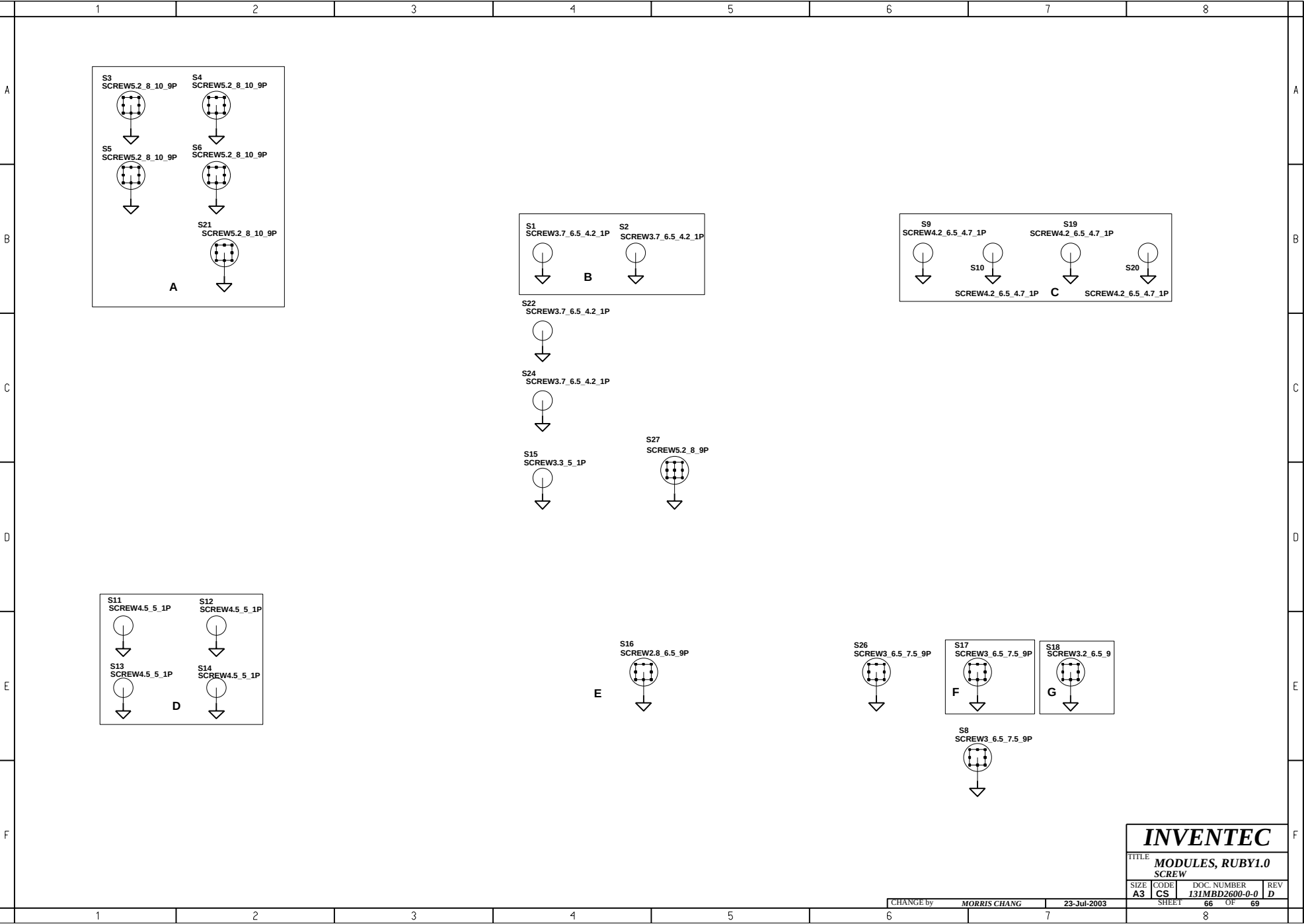


INVENTEC

TITLE	MODULES, RUBY1.0 PHY1394 CONTROLLER
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TITLE MODULES, RUBY1.0			
SCREW			
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A	SHEET 10 1. R1293 CHANGE FROM 4.99K TO 5.6K 2. R322 CHANGE FROM 10K TO 200K AND ADD CAP(0.01UF) IN R322 PIN2 TO GND NOTE: FOR ATI POWER SEQUENCE SHEET 11 1. ADD PM_VGATE DELAY CIRCUIT : U46 , U58 ,R426 , C525 , C526 2. R349 CHANGE FROM 1K TO 0 (OHM) AND ADD CAP (0.01UF) IN R349 RIN2 TO GND NOTE : FOR PCI_RESET , PCI_CLOCK , PM_VGATE TIMING SHEET 13 1. R1783 CHANGE FROM 220K TO 100K AND ADD CAP(0.1UF) IN R1783 PIN1 TO GND NOTE : FOR ATI POWER SEQUENCE(ADJUSTED TIMING OF THE VDD15) SHEET 14 1. R936 (INPUT TO U40 PIN2) CHANGE FROM 36.5K TO 182(OHM) NOTE : FOR POWER SEQUENCE SHEET 15 1. REMOVE Q54 , R390 CHANGE FROM 10K TO 0(OHM) NOTE :SAME THE DIAMOND SYSTEM SHEET 17 1. R229 , R230 , R291 CHANGE FROM 0(OHM) TO OPEN NOTE: MEET THE INTEL RDDP SPEC. SHEET 20 1. CN8 (FAN CONNECT) CHANGE FROM 5PIN TO 3 PIN NOTE: MECHANICAL CHANGE SHEET 29 1. ADD SERIES RESISTORS ON SB_STDS (R518), ADSTBS_O(R519),ADSSTBS_1(R520) 2. CHANGE R894 49.9 TO 40.2(OHM) 3. AGP8X_DETb PULL HIGH POWER RAIL CHANGE FROM +V1.SATIAGP TO +V3S 4 . ADD TEST POINT IN GPIO[4:7] GPIO[9:14] 5. VGA_GPIO[0:3] STATUS CHANGE FROM 10K PULL DOWN TO 10K PULL UP (+V3S) 6. ADD 1K PULL DOWN ON GPIO8 7. ADD 1K PULL DOWN RESISTOR TO PREVENT LEAKAGE FOR SOME ZV_LCDDATA , ZV_LCDCNTL PIN (ZV_LCDDATA[5:15] , [18:19], ZV_LCDCNTL[0:3]) 8. ADD 10K PULL DOWN RESISTOR TO PREVENT LEAKAGE FOR ZV_LCDDATA[16:17] NOTE: ABOVE ITEMS FOR ATI RECOMMED 9. R879 , R880 CHANGE FROM 1K TO 3K NOTE: FOR +V3A POWER RAIL(ATI-VREFG)	SHEET 30 1. ADD 0 OHM SERIES RESISTOR ON THE PATH OF OSC OUTPUT TO XTALIN AND XTALOUT NOTE : SELECT FREQUENCY ENTER CHANNEL 2. ADD 10K(R531) PULL UP TO +V3S NOTE: FOR ATI RECOMMED SHEET 32 1. L36 CHANGE FROM BLM11A121S TO BLM21A121S NOTE: FOR ATI RECOMMED SHEET 33 1. ADD VGA DAMPING PESISTOR NOTE: FOR ATI RECOMMED SHEET 39 1. U22-V19(PM_VGATE/VRMPWRGD) CHANGE FROM PM_VGATE TO SB_VGATE 2. (VMEM_CFG3)ADD OPEN(R513) PULL-UP TO +V3S AND 8.2K(R512) PULL-DOWN 3. CREATE RUBY VIDEO MEMORY CALL-BACK DEFINITION TABLE SHEET 43 1. ROTATE CN16(THE KEYBOARD CONNECT) : 180 POINT OF VIEW 2. ROTATE CN18(THE TOUCH-PAD CONNECT) : 180 POINT OF VIEW 3. CHANGE CN17(STICK POINT) GEOMETRIC(LAYOUT PATTERN) SHEET 48 1. CHANGE JACK801(MIC JACK) GEOMETRIC(LAYOUT PATTERN) SHEET 49 1. CHANGE JACK802(EAR-PHONE JACK) GEOMETRIC(LAYOUT PATTERN) SHEET 51 '53 1. IRQ14_3: CN808(PAGE53) PIN29 CONNECT TO CN814-PIN31(PAGE51) 2. PDCS1#: CN808(PAGE53) PI35 CONNECT TO CN814 -PIN37(PAGE51) 3. HDDASP#_5: CN808(PAGE53) PIN37 CONNECT TO U35-PIN1(PAGE51) 4. PDIAG#: CN808-PIN32(PAGE53) CONNECT TO CN814-PIN34(PAGE51) 5. IDERESET#: R139-PIN1(PAGE53) CONNECT TO U36-PIN4(PAGE51) NOTE : FOR OPTICAL DRIVE SHEET 55 1. SWAPPED BELOW SIGNAL : PCI_AD(7)&PCI_AD(8), B_CAD(10)&B_CAD(11), B_CAD(14)&B_CAD(15) SHEET 65 1. C126 CHANGE VALUE FROM 0.01UF TO 0.1UF NOTE : REFERENCE TI 1394 CIRCUIT SHEET 66 1. ADD BELOW SCREW (S21 , S22 , S24 , S26) 2. REMOVE BELOW SCREW (S15) NOTE: MECHANICAL CHANGE	02 11 CHANGE LIST SHEET 11 1. R348 TO OPEN SHEET 29 1. ADD (R521,R522,R523,R524,R525, R527, R528,R529,R530,R534) 0 (OHM) SERIES RESISTOR WOULD BE USEFUL IN TUNING AGP SHEET 53 1. OPTICAL DRIVE(CN808) CHANGE CONNECT TO AMP_P_012203_50P SHEET 65 1. U57 ,R526, R535 RESERVE FOR GUID 02 12 CHANGE LIST SHEET 20 1. CHANGE CN8 PIN2 CONNECTION FROM GND TO Q43 PIN3 CN8 PIN3 CHANGE TO OPEN SHEET 39/44 1. ADD INVERTER BETWEEN , PIN H22(GPIO39) OF U22 AND NPCI RESET (PIN26) OF U10. PCI_RESET#_3 WILL NOT LONGER BE CONNECTED TO PIN 26 OF U10 02 14 CHANGE LIST SHEET 10 1. ADD SCHMITT BUFFER BETWEEN R322 PIN2 AND PIN10(ON1) OF U38 SHEET 26 1. ADD DDR-THERMAL SENSE PARTS(U57, R512,R513) SHEET 29 1. ADD TEST POINT TO PINS AK19, AH19, AH20,AG20 SHEET 30 1. ADD TEST POINT TO PINS AE25 2. REMOVE C247,C248,R542,R543 3. CHANGE U17 FROM ICS_MK1707S TO SM560 SHEET 39 1. R512 , R513(REFERENCE) CHANGE TO R562 , R563 SHEET 49 1. ADD 0.1UF CAPACITOR BETWEEN ANALOG AND DIGITAL GROUND ON PIN8 OF JACK802 SHEET 53 1. ADD 1K RESISTOR PULL-DOWN TO PIN47 OF CN808 SHEET 65 1. ADD 1K RESISTOR PULL-DOWN TO PIN7 OF U57 2. CN1 PINOUTS ARE REVERSED 3. L9(BLM11A121S) CHANGE TO POWER_PAD2 4. U57(REFERENCE) CHANGE TO U61 SHEET 66 1. ADD SCREW (S15)) SHEET 39/53 1. U22 PIN G23(GPIO40) CONNECT TO CN808 PIN47	02 17 CHANGE LIST SHEET 53 1. R561 1K CHANGE TO 100K SHEET 68 1. CN15 PIN12 CONNECT TO GND					
B									B
C									C
D									D
E									E
F									F
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1. ADD OPC CIRCUIT ON PAGE5.
2. R2169 CHANGE FROM 10K TO OPEN ---PAGE6
3. REMOVE D22 ---PAGE6
4. U28-PIN8 CONNECTION STATUS : CHANGE IT FROM R2169-PIN1 TO Q802-PIN1.2.3 ---PAGE6
5. Q22-PIN1.2.3 AND Q26-PIN1.2.3 POWER NAME, CHANGE IT FORM +VBATR TO +VADP2 ---PAGE6
6. REMOVE PAD9 ---PAGE11
7. REMOVE PAD11 AND PAD12 ---PAGE12
8. CHANGE MOSFET TO REDUCE RDS ON Q809 Q39 ---PAGE13
9. CHANGE THERMAL IC PART, FROM ADM1032 TO ADM 1031 FOR CPU&VAG ---PAGE20
10. ADD TEST-POINT (TP557) ---PAGE21
11. ADD CAP (220PF) 3 PCS BETWEEN THE MCH_GTLREF AND GND ---PAGE22
12. REMOVE C60 (150UF) ---PAGE26
13. DELETE THERMAL SENSOR CIRCUIT ---PAGE30
14. R468~R489, R490~R492, R494~R511 : CHANGE THESE RESISTOR FROM 0(OHM) TO 10(OHM) ---PAGE33
15. ADD CAP (150UF)BETWEEN THE +VRAM_VCC AND GND ---PAGE34
16. PIN1 OF D2,D3,D800,D801,D802,D803,D804 ARE CHANGE FROM +V3 TO USBCC1 ---PAGE36
17. A_CSTOP# , B_CSTOP# OF U2228 SIGNAL(PAGE55) CONNECT TO CN21(PAGE56)
18. CHANGE CN10 SYMBOL : PIN11 IS REF_P_D AND PIN12 IS WP ---PAGE57
19. REMOVE C230, C395, C1674, C1675. CHAISY_GND CHANGE TO DIGITAL_GND ---PAGE60
20. UPDATE CN807 FROM JAE_WD_154S4V_VF78_ML_154P TO JAE_WD_154S4VH_VF85_N_154P
- AND ADD D+, D-, C+, C- SIGNALS FROM U2(PAGE60) ---PAGE61
21. BREAKING PIN1 AND PIN3 CONNECTION FOR SW2, SW3, SW4 THEN ALL OF PIN3 CONNECT TO GND ---PAGE64
22. UPDATE CN1 SYMBOL, ADD GND SIGNAL OF PIN7, PIN8 THEN CONNECT TO GND ---PAGE65
23. ADD NAME PORT(MAX_LX5) IN L44-PIN1 ...PAGE7
24. REMOVE NONE-USE SIGNAL-PORT(SLP_S5#_5R) ...PAGE13
25. Q48 CHANGE FROM FDC638P TO FDR840P ...PAGE13
26. R293 CHANGE FROM 10K TO OPEN ...PAGE17
27. Q806 CHANGE FROM FDC638P TO FDR840P(Q825) ...PAGE37
28. R848-PIN1 AND Q825-PIN5,PIN8 POWER RAIL FROM +V3S TO +V3 ...PAGE37
29. R67 CHANGE VALUE FROM 180K TO 51K ...PAGE39
30. REMOVE D39 ...PAGE41
31. ADD DELAY CIRCUIT FOR THE PWR_GOOD3 ...PAGE41
32. ADD RNET FOR KAHUNA PROGRAMMING(RS850,RS860) ...PAGE43
33. REMOVE D17 ...PAGE52
34. U7 AND U804 PIN5,PIN7 POWER RAIL CHANGE FROM +V5 TO +V5A ; OC# SIGNAL OF THE PIN2 IS REMOVE EN SIGNAL OF THE PIN1 IS CONNECT TO +V5 ...PAGE54
35. REMOVE R934 R946 OF THE PULL-HIGH CIRCUIT ...PAGE56
36. CHANGE TURN ON CIRCUIT OF THE H.D.D-LED, USING A MOS-FET(Q286) TO CONTROL H.D.D-LED ...PAGE64
37. R1679 CHANGE VALUE FROM 20K TO 1.3K ; R2139 CHANGE VALUE FROM 150K TO 10K ...PAGE5
38. DELETE R514 ...PAGE26
39. FOLLOWIG RESISTORS ARE CHANGE VALUE FROM 10 OHM TO 24 OHM : RS12~RS20 , RS22~RS24 ; RS27~RS30 RS27~RS30 ; RS32~RS35 ; RS38~RS44 ; RS46~RS47 ; RS57~RS59 ; R481~R486 ; R488 , R489 ; R505~R511 ; R502 ...PAGE33
40. ADD CAP(22UF) BETWEEN THE +V2.5S AND GND IN U23 , U27 OF THE VRAM ...PAGE34
41. ADD CAP(22UF) BETWEEN THE +V2.5S AND GND IN U14 , U15 OF THE VRAM ...PAGE35
42. CHANGE CRT CIRCUIT, REFER TO THE DIAMOND CRT CIRCUIT ...PAGE36
43. R67 CHANGE VALUE 51K TO 180K ...PAGE39
44. POWER RAIL OF THE R223-PIN1, CHANGE VALUE FROM +V5A TO +V5 ...PAGE46
45. POWER RAIL OF THE U32-PIN5, CHANGE VALUE FROM +V5 TO +V3 ...PAGE57
46. C1620 , C1621 , C1623 CHANGE VALUE FROM 0.01UF TO 0.1UF ...PAGE59
47. C1651 , C1656 CHANGE VALUE FROM 22PF TO 27PF ...PAGE60
48. ADD 200 OHM SERIES RESISTOR BETWEEN XTALO AND PIN2 OF X800(CRYSTAL) ...PAGE60
49. D41 CHANGE FROM SML_210MT TO SML010BAT(BLUE-LED) ; D48 CHANGE FROM SML_210MT TO 12-215VRC_TR8(RED-LED) ...PAGE64
50. DELETE U8 , R526 , R535 , R538 ...PAGE65
51. CN1 CHANGE FROM AMP_JACK_440148 TO AMP_JACK_1470613 ...PAGE65
52. CN4 CHANGE FROM MLX_53398_0490 TO JST_BM4B_SRSS ...PAGE50

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