

SCHEMATIC DIAGRAMS

PRODUCT NAME VL863/WL863

UNIT NAME MAIN

UNIT NO. PE0993

PWA NAME

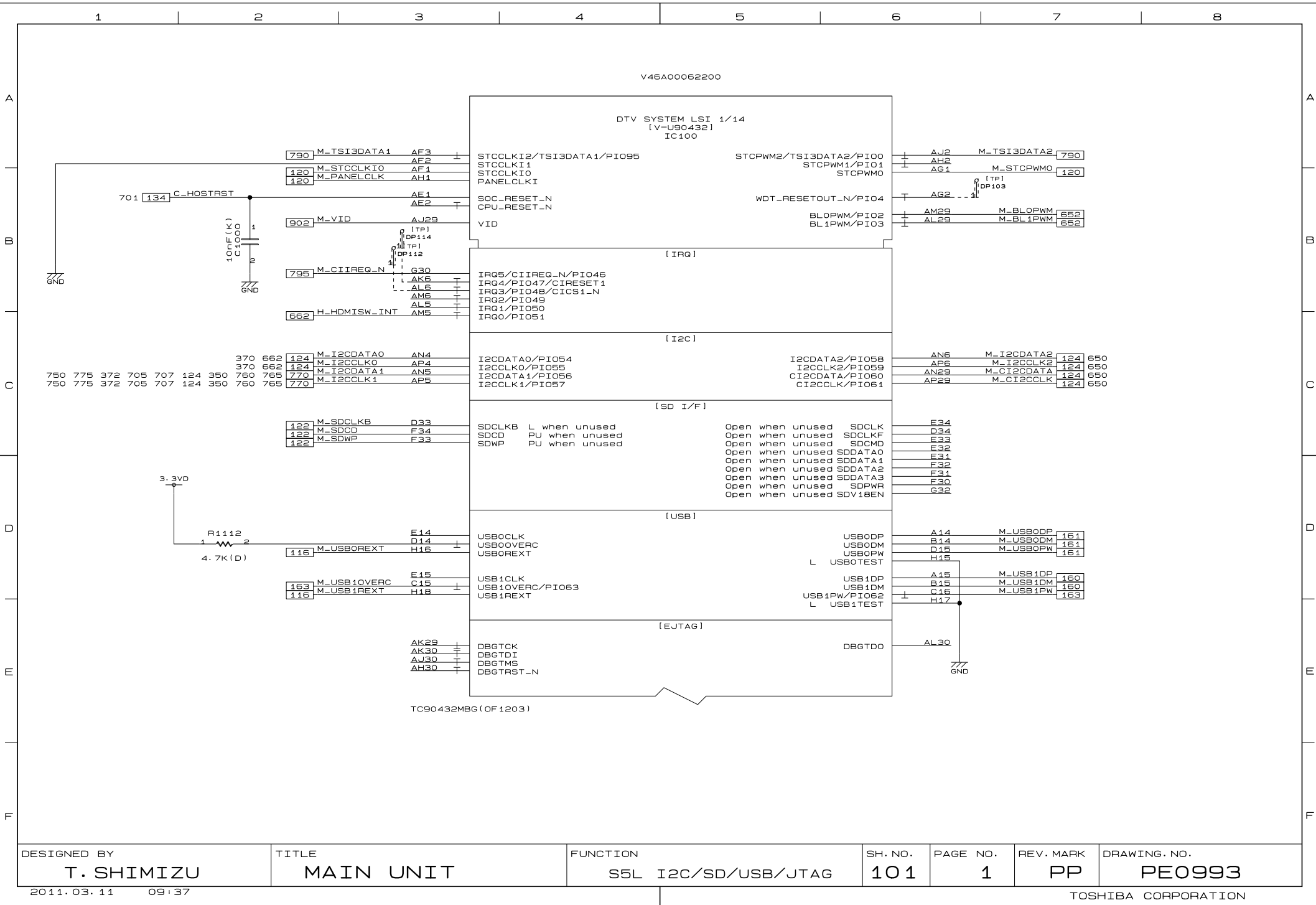
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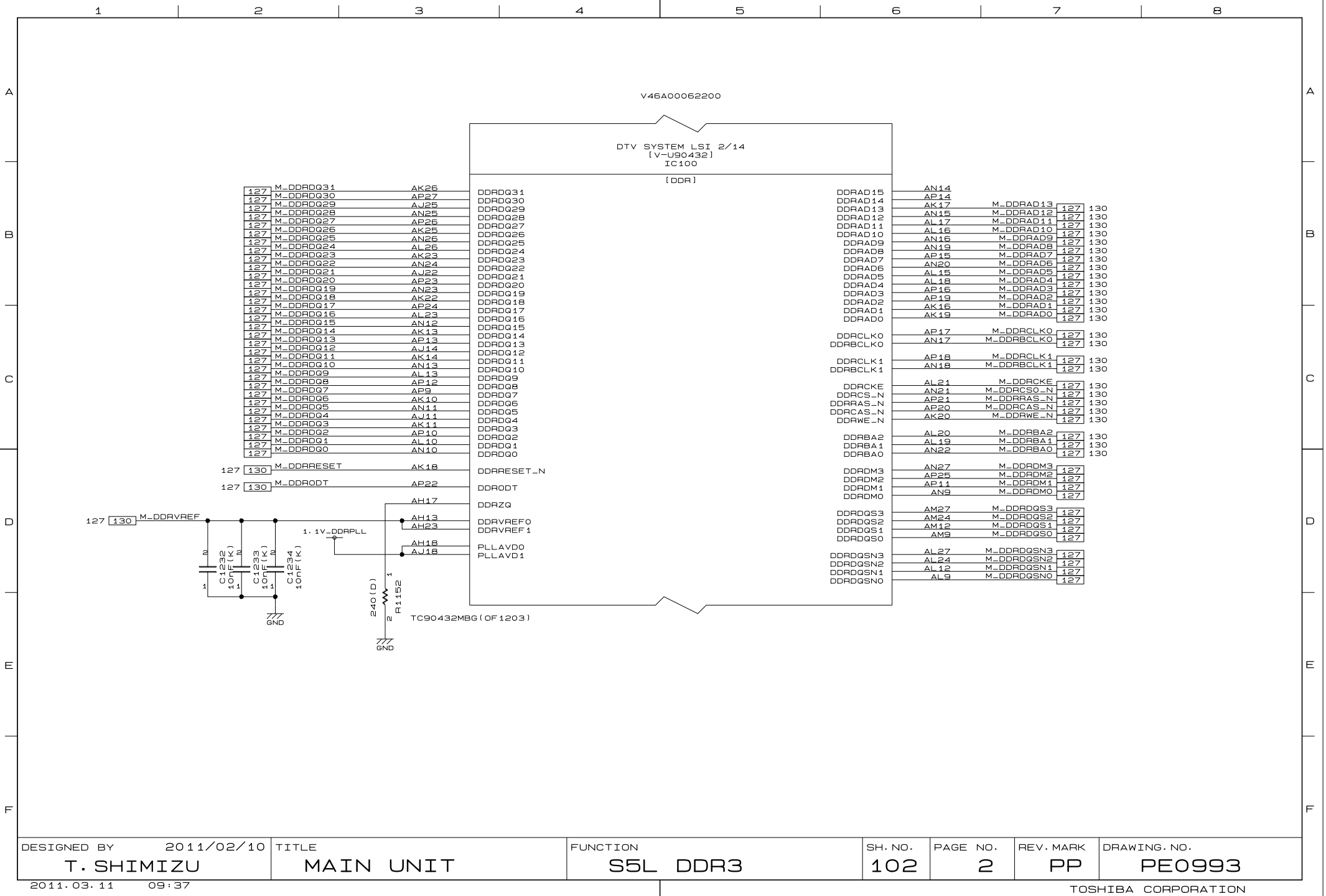
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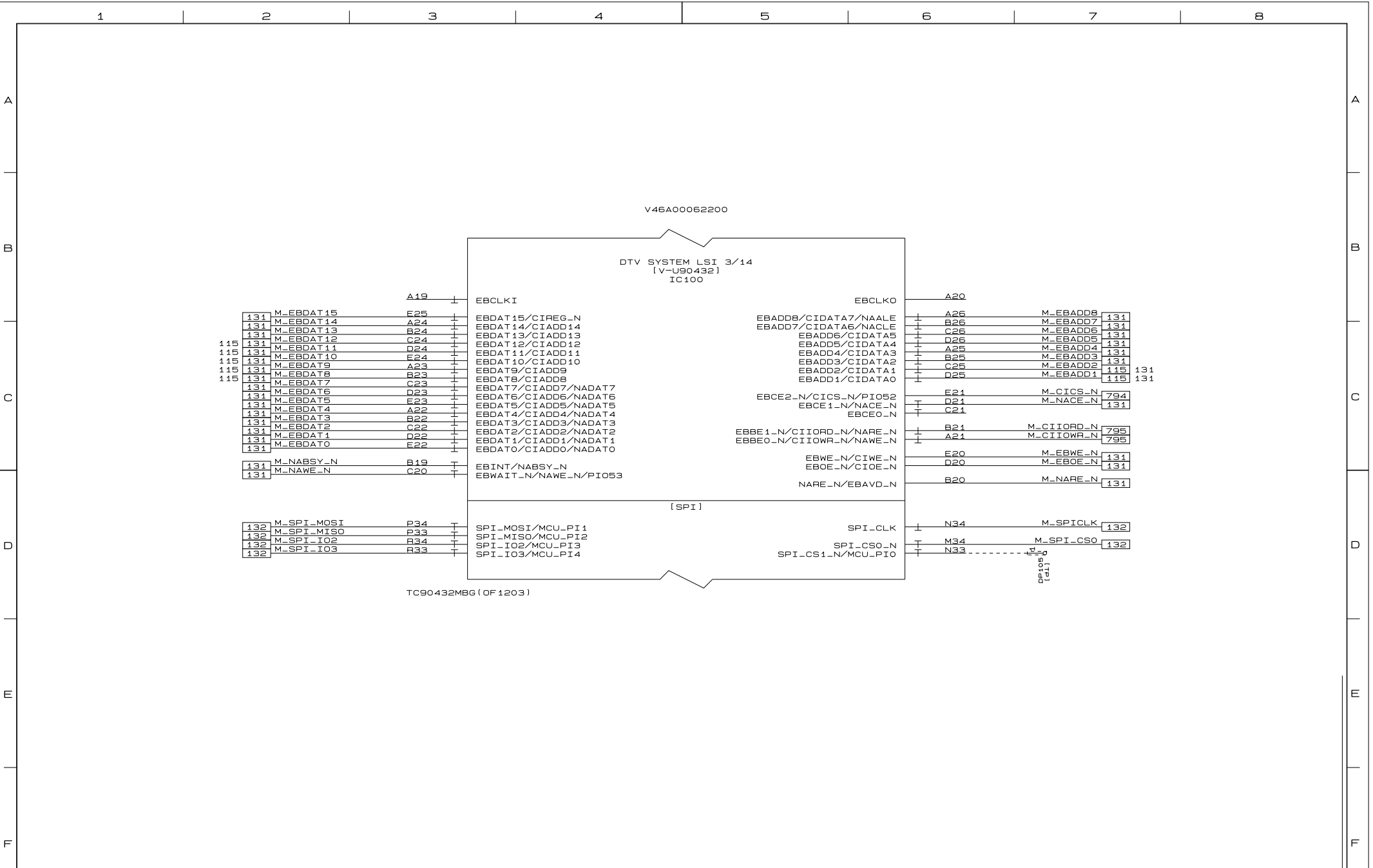
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PAGE	FUNCTION	REV	PAGE	FUNCTION	REV	PAGE	FUNCTION	REV	PAGE	FUNCTION	REV
1	SEINE5L I2C/SD/USB/JTAG		26	SPI FLASH		51	CONNECTOR AVJACK		76	TVM(FAN CONTROL)	
2	SEINE5L DDR		27	EBUS NAND FLASH		52	DSUB15P PC IN		77	TVM(LED/RMT/RGB/TOUCH)	
3	SEINE5L EBUS/SPI		28	L2SW (MISC.)		53	<BLANK PAGE>		78	TVM(PANEL I/F)	
4	SEINE5L UART/ETHER		29	L2SW (RMII I/F)		54	EURO SCART OUT		79	TVM(PIR)	
5	SEINE5L TS		30	RJ45 CONNECTOR		55	AV INPUT1		80	TVM(KEY CONNECTOR)	
6	SEINE5L MCU		31	WLAN I/F		56	AV INPUT2		81	TUNER	
7	SEINE5L AUDIO		32	WLAN POWER		57	AV INPUT3		82	SYNC_DET(TV_OUT)	
8	SEINE5L LVDS OUT		33	USB CONNECTOR		58	SYNC DETECT		83	TUNER DVB-S/S2	
9	SEINE5L HDMI/DAC		34	USB HUB 1/2		59	PANEL I/F LVDS OUT		84	DEMODOVB-T/C	
10	SEINE5L ADC		35	USB HUB 2/2		60	PANEL I/F LVDS OUT		85	DEMODOVB-T2/T/C	
11	SEINE5L ANALOG POWER		36	USB POWER		61	PANEL I/F DIMMER CON		86	DEMODOVB-S2/S	
12	SEINE5L DIGITAL IO POWER		37	AUDIO RESISTOR		62	PANEL I/F POWER		87	DISEqC LNB POWER	
13	SEINE5L MEMORY POWER		38	AUDIO I2S CLK		63	HDMI Connector		88	TUNER POWER	
14	SEINE5L DIGITAL POWER		39	AUDIO MUTE		64	HDMI SW 1/3		89	CI TS-SELECTOR	
15	SEINE5L BOOT-CONFIG		40	AUDIO SIF		65	HDMI SW 2/4		90	CI POWER/CONNECTOR	
16	SEINE5L XTAL/VREF		41	AUDIO DAC (HEADPHONE)		66	HDMI SW 3/4		91	CI ADDRESS BUFFER	
17	SEINE5L PLL/DAC		42	AUDIO Linedrive(TVOUT)		67	HDMI SW 4/4		92	CI DATA BUFFER	
18	SEINE5L CAPACITOR		43	AUDIO CONNECTOR		68	HDMI ARC		93	CI CONTROL BUFFER	
19	SEINE5L PWR-REG		44	AUDIO DSP(CIRRUS)		69	HDMI Power		94	CI TS OUTPUT BUFFER	
20	PERI (CLK/VCX0)		45	AUDIO D-AMP		70	HDMI TX PWR5		95	POWER 1.5V	
21	PERI (PIO/IRQ)		46	AUDIO AMP FILTER		71	HDMI TX PWR5		96	POWER 1.1V	
22	PERI (I2C/UART)		47	AUDIO D-AMP (Woofer)		72	TVM(MICON)		97	POWER 3.3V	
23	DDR3 SDRAM		48	AUDIO AMP FILTER (Woofer)		73	TVM(MICON2)		98	POWER 6V/5V	
24	DDR3 VTT		49	Headphone AMP		74	TVM(RESET I2C)		99	POWER CONNECTOR	
25	EBUS RESISTOR		50	EURO SCART		75	TVM(CEC)		100	EMC CONTROL	

APPROVED BY	CHECKED BY	DESIGNED BY	TITLE	TOTAL	PAGE NO.	REV. MARK	DRAWING. NO.
IWANO	IWANO	SHIMIZU	CIRCUIT DIAGRAM	100	TITLE	PP	







DESIGNED BY

2011/02/10

TITLE

MAIN UNIT

FUNCTION

S5L EBUS/SPI

SH. NO.

103

PAGE NO.

3

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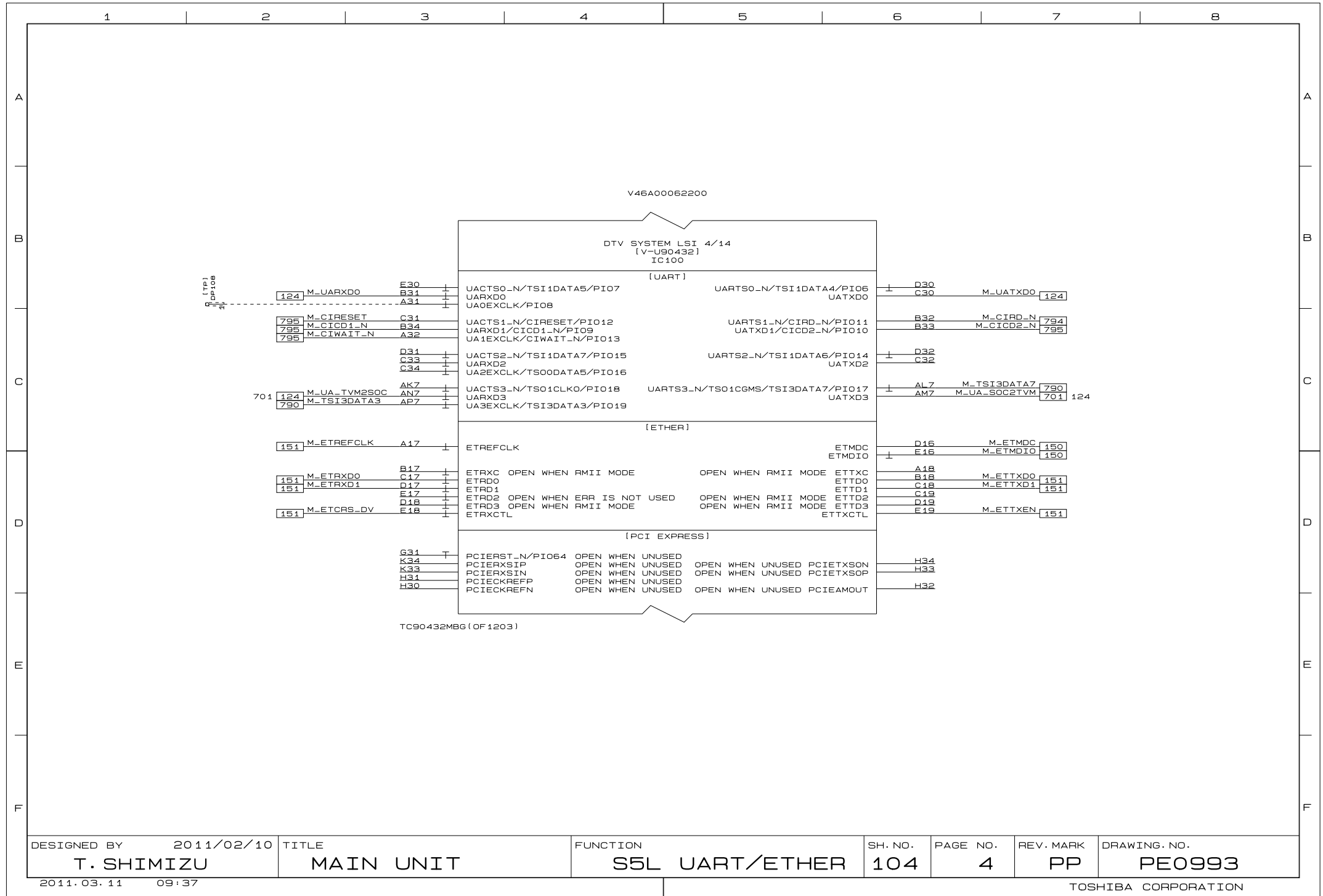
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PE0993

2011.03.11 09:37

TOSHIBA CORPORATION



DESIGNED BY 2011/02/10

T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L UART/ETHER

SH. NO.

104

PAGE NO.

4

REV. MARK

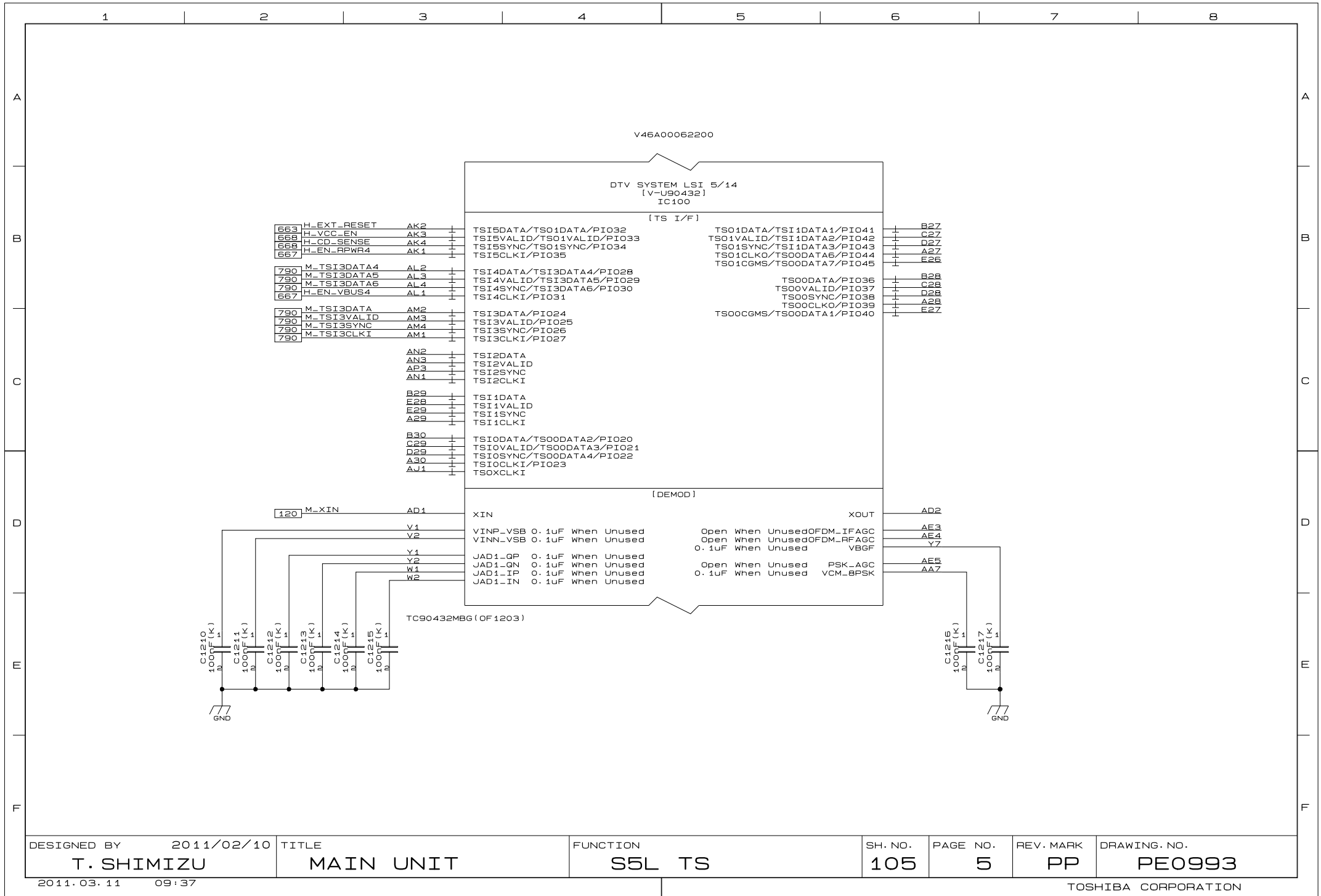
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TOSHIBA CORPORATION



DESIGNED BY 2011/02/10

T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L TS

SH. NO.

105

PAGE NO.

5

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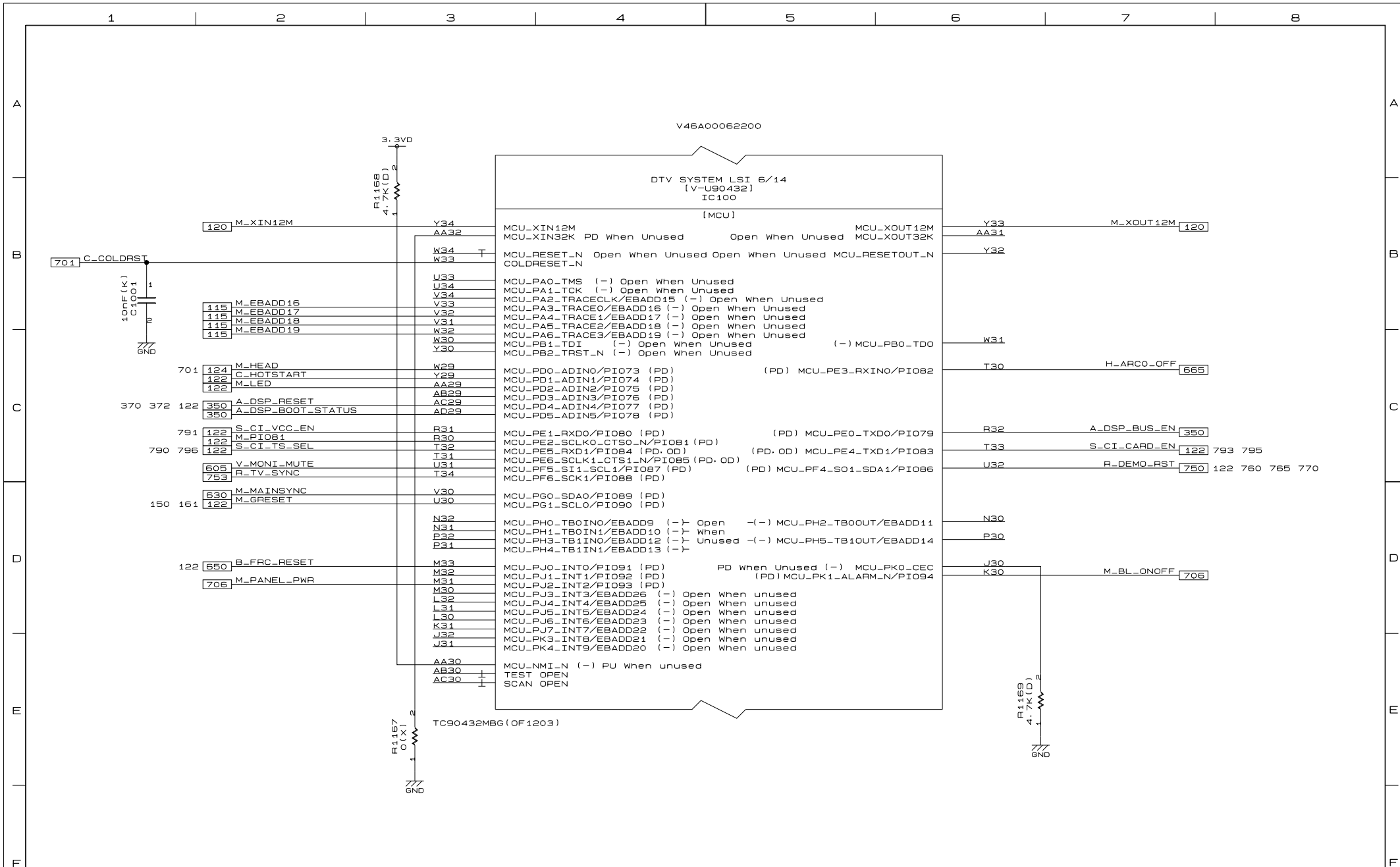
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L MCU

SH. NO.

106

PAGE NO.

6

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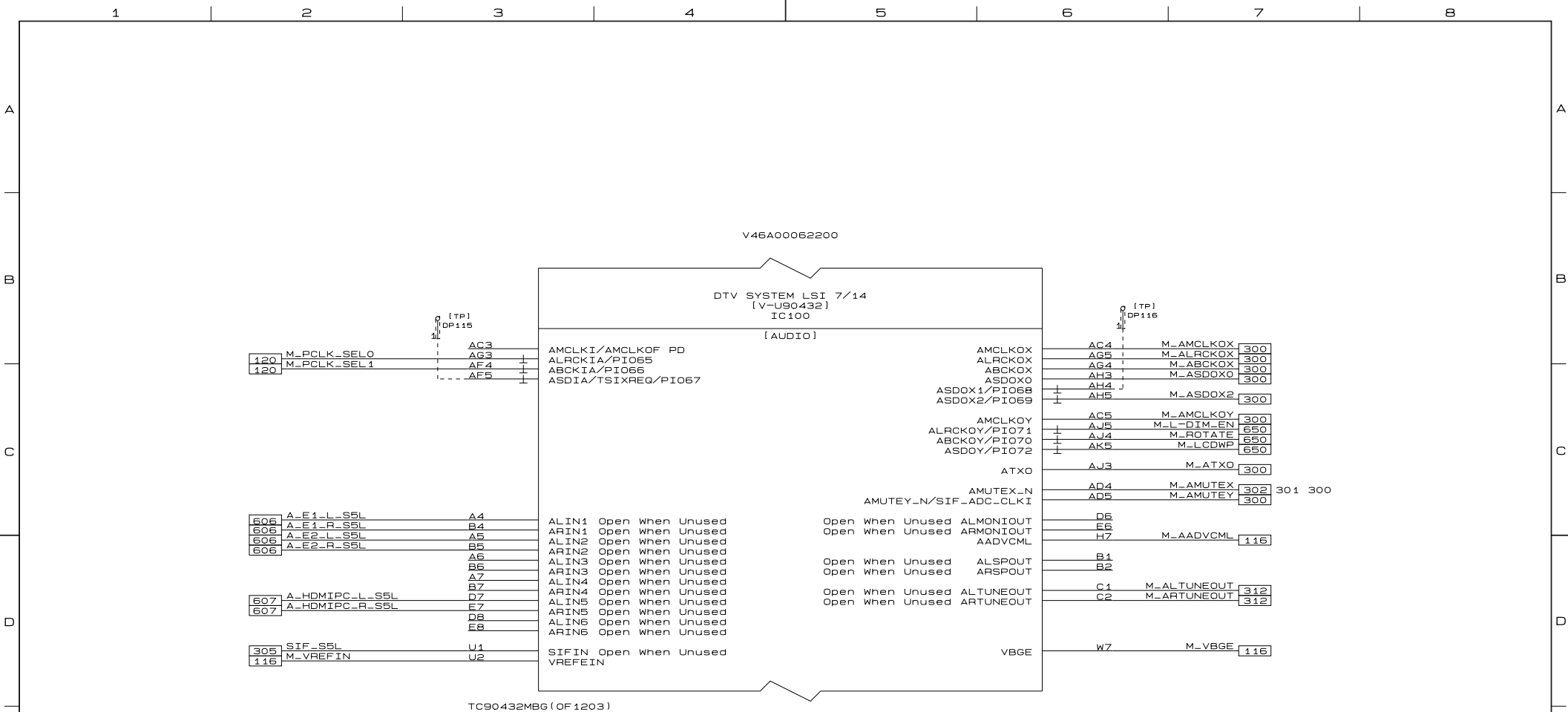
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L AUDIO

SH. NO.

107

PAGE NO.

7

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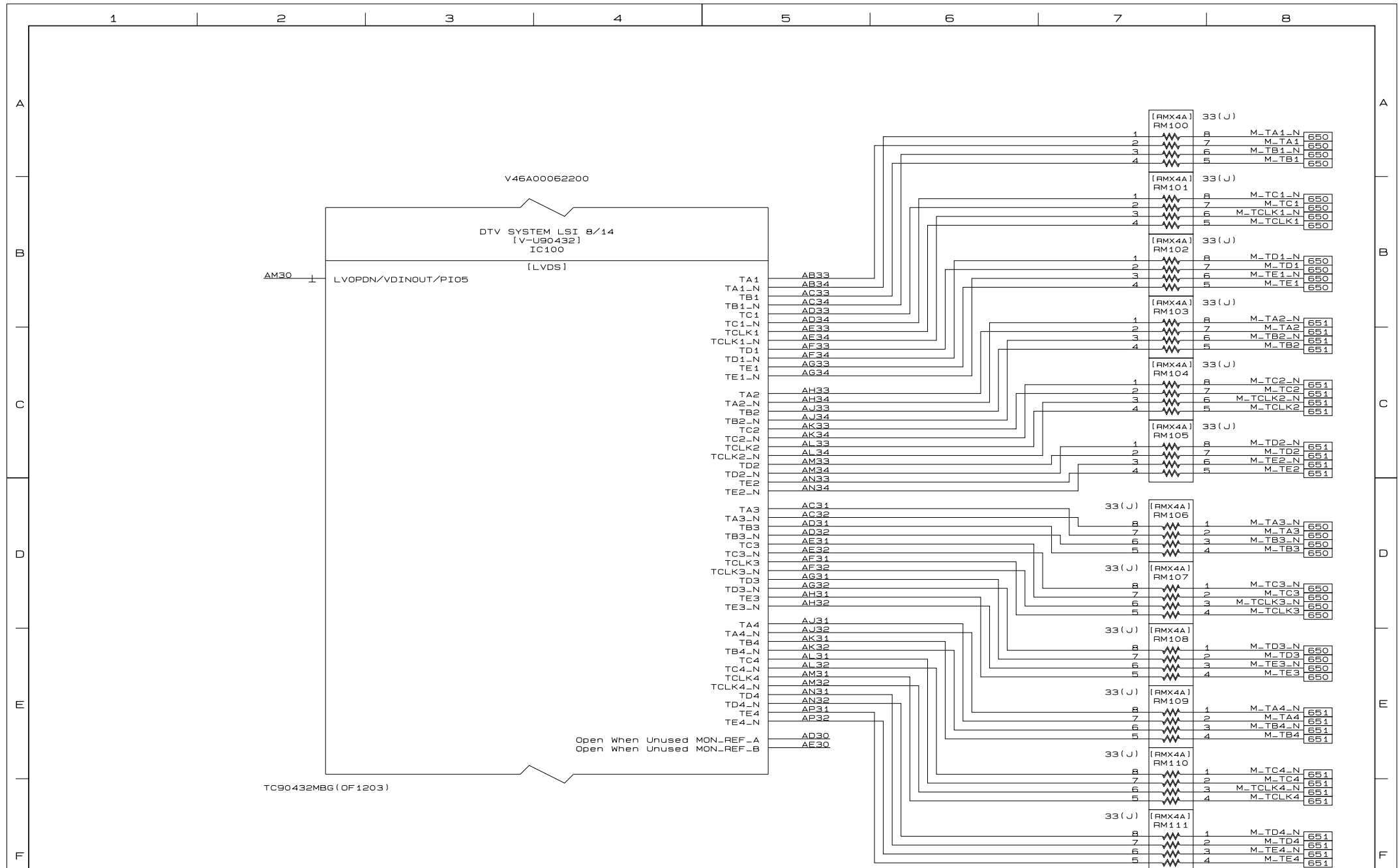
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L LVDS

SH. NO.

108

PAGE NO.

8

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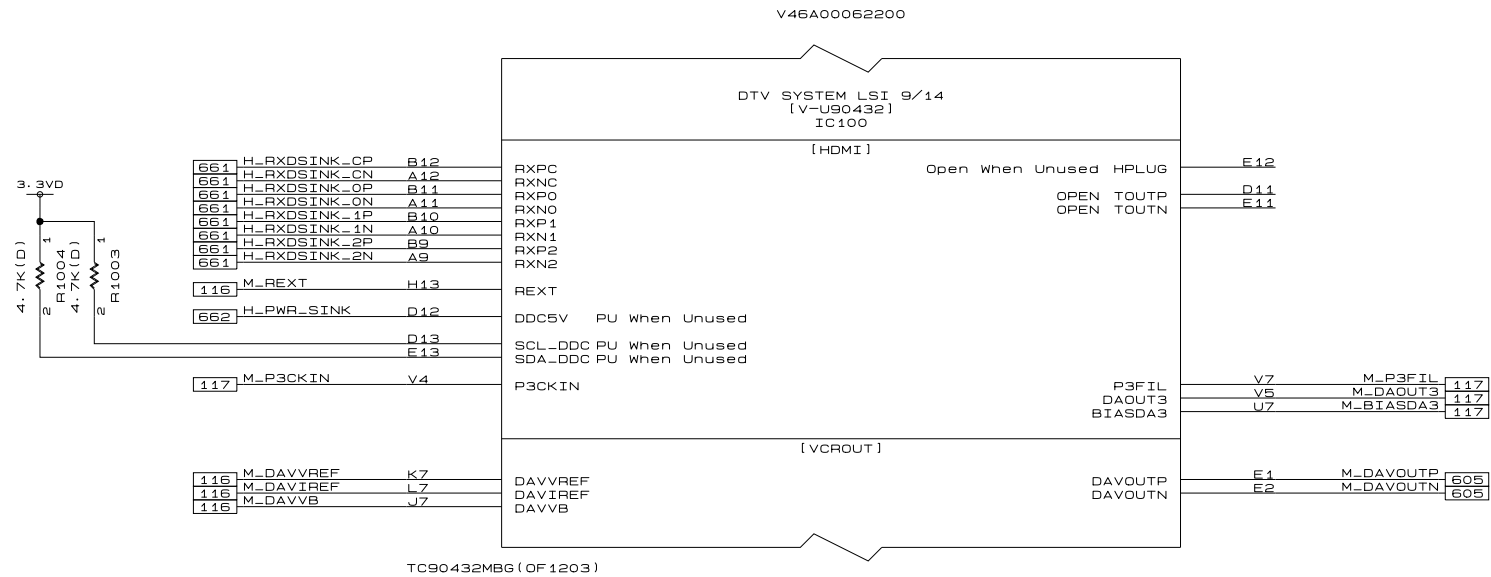
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TOSHIBA CORPORATION



TC90432MBG (OF 1203)

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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L HDMI

SH. NO.

109

PAGE NO.

9

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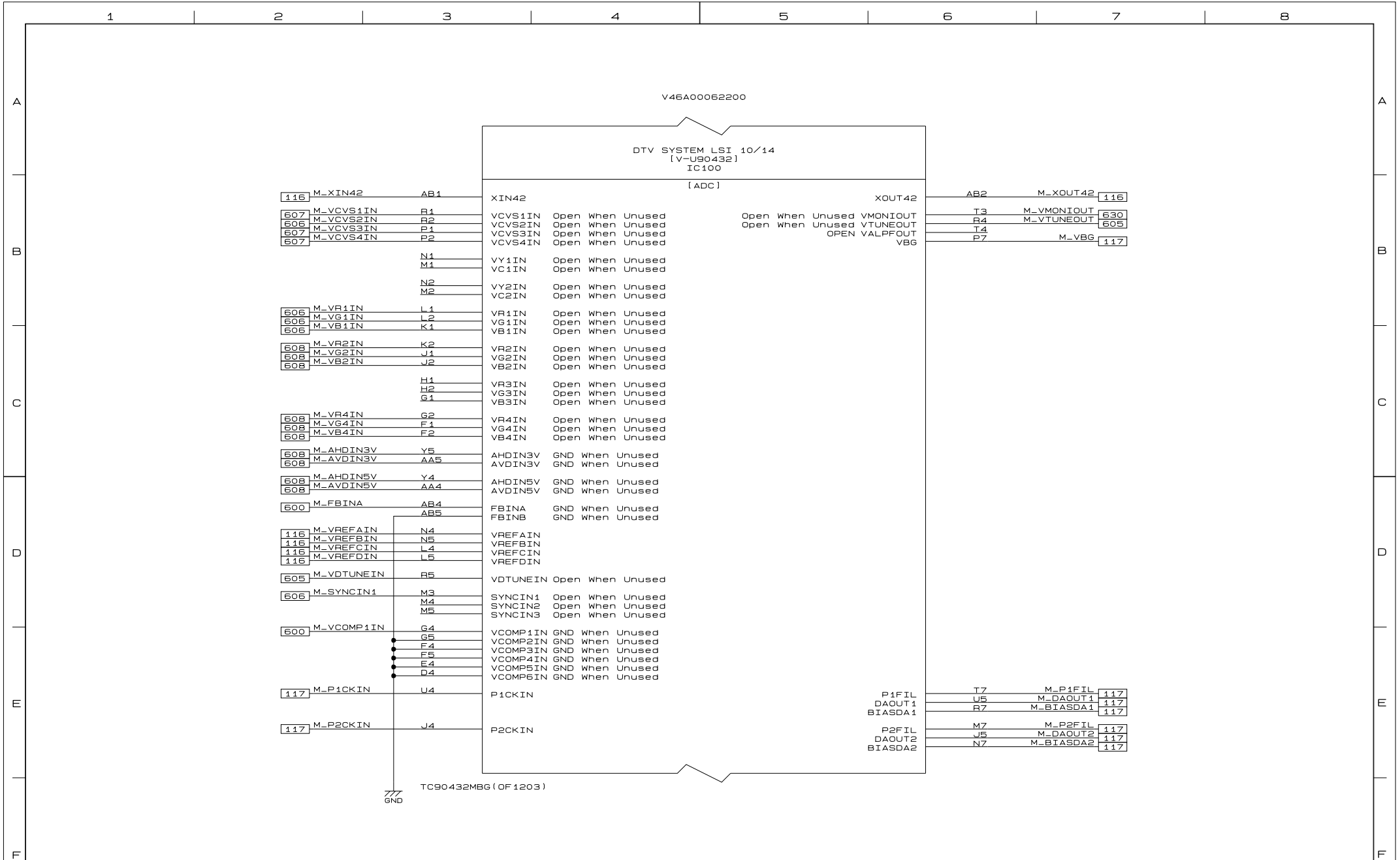
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L ADC

SH. NO.

110

PAGE NO.

10

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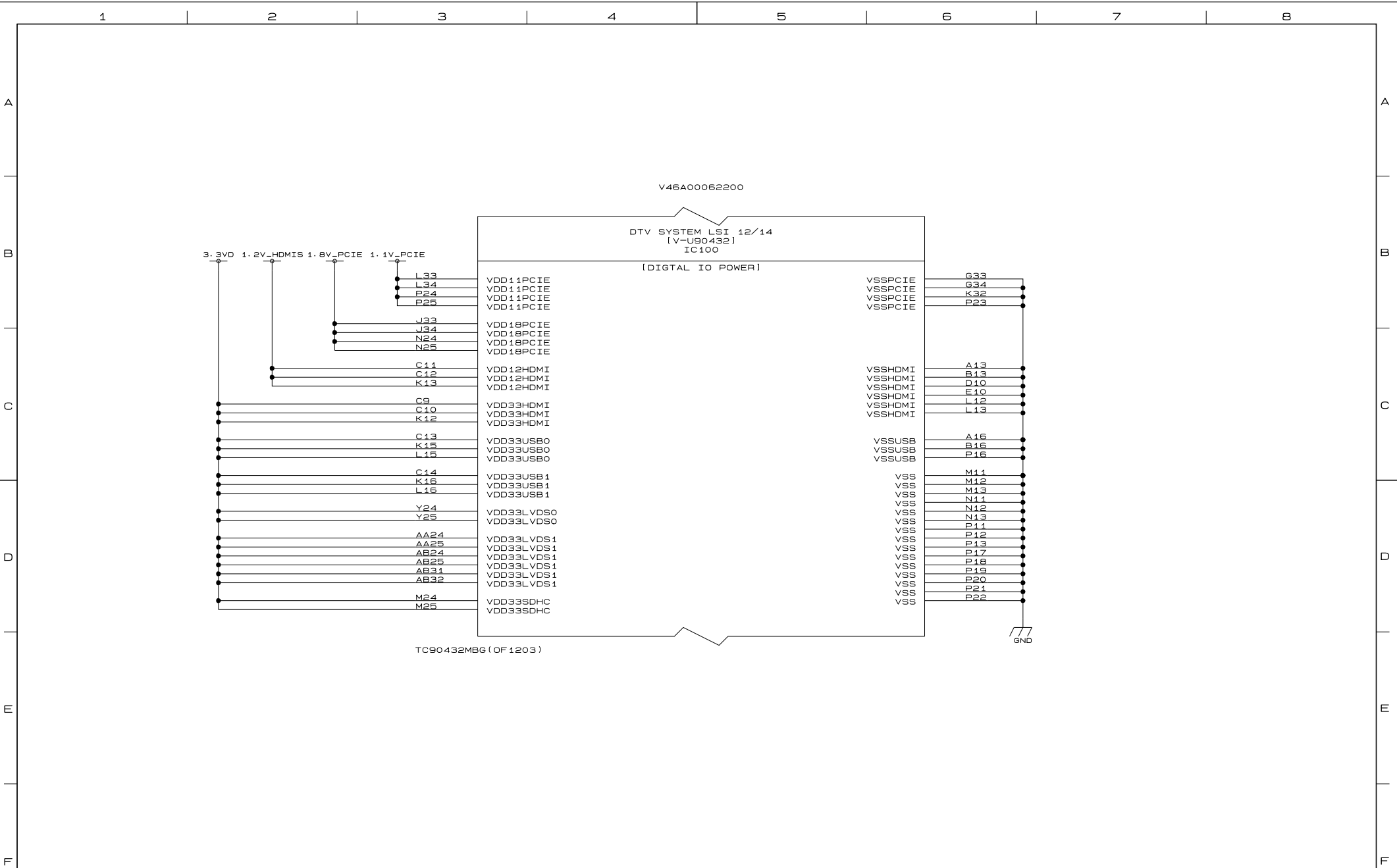
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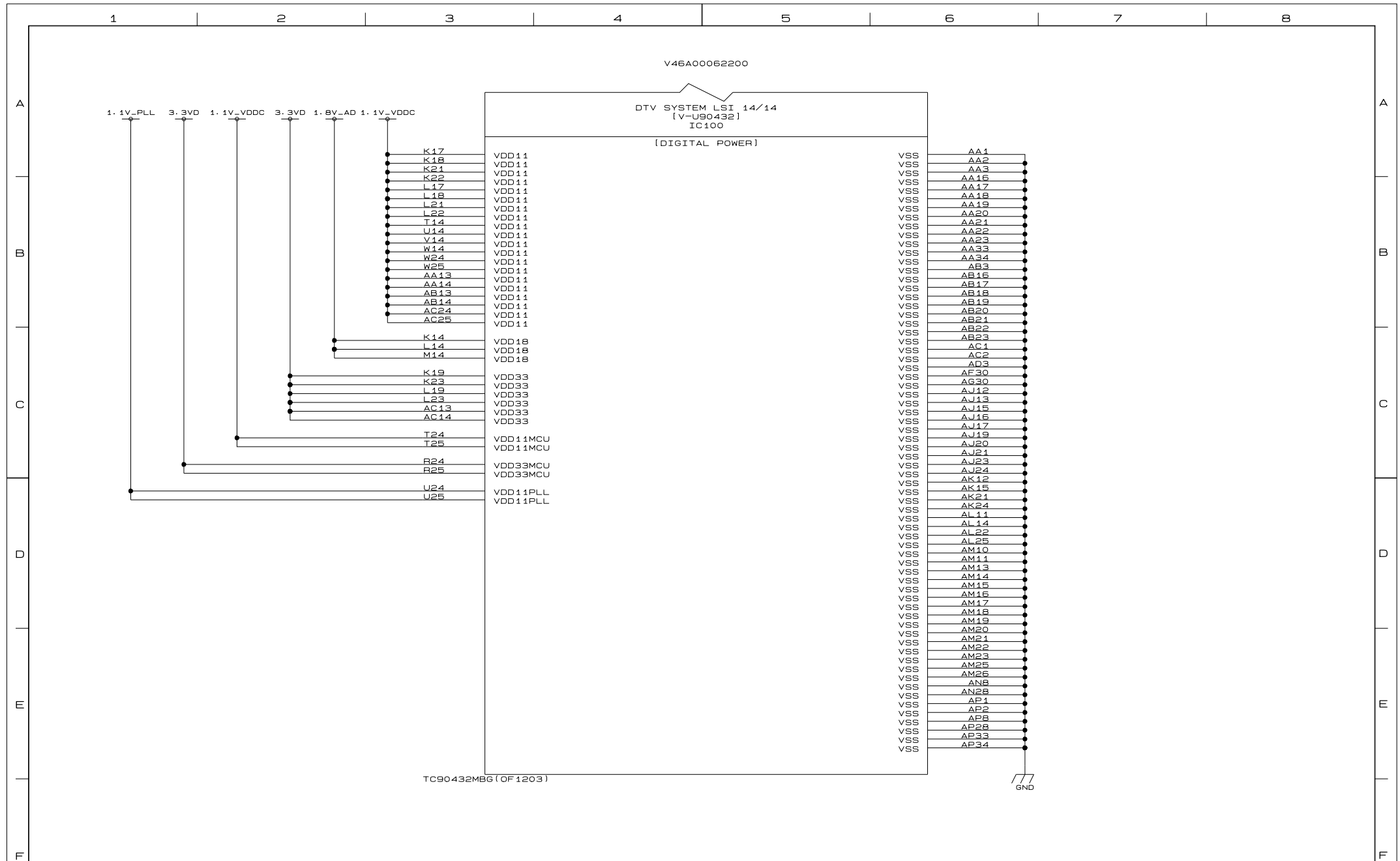
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TOSHIBA CORPORATION



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T. SHIMIZU		MAIN UNIT	S5L DDR POWER	112	12	PP	PE0993



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L DIGITAL POWER

SH. NO.

014

PAGE NO.

14

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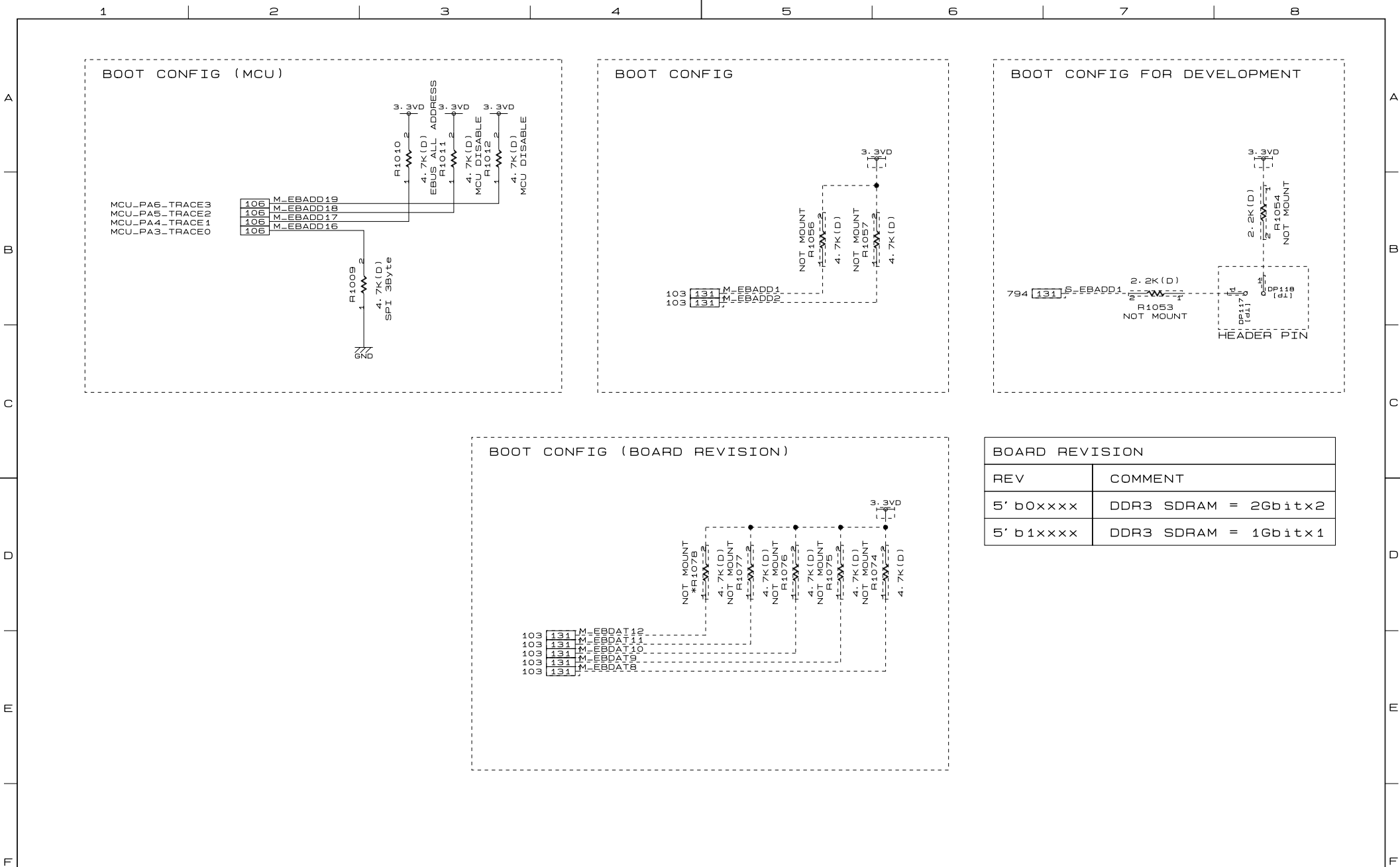
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TOSHIBA CORPORATION



DESIGNED BY 2011/02/14

T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L Boot-Config 115

SH. NO.

PAGE NO.

15

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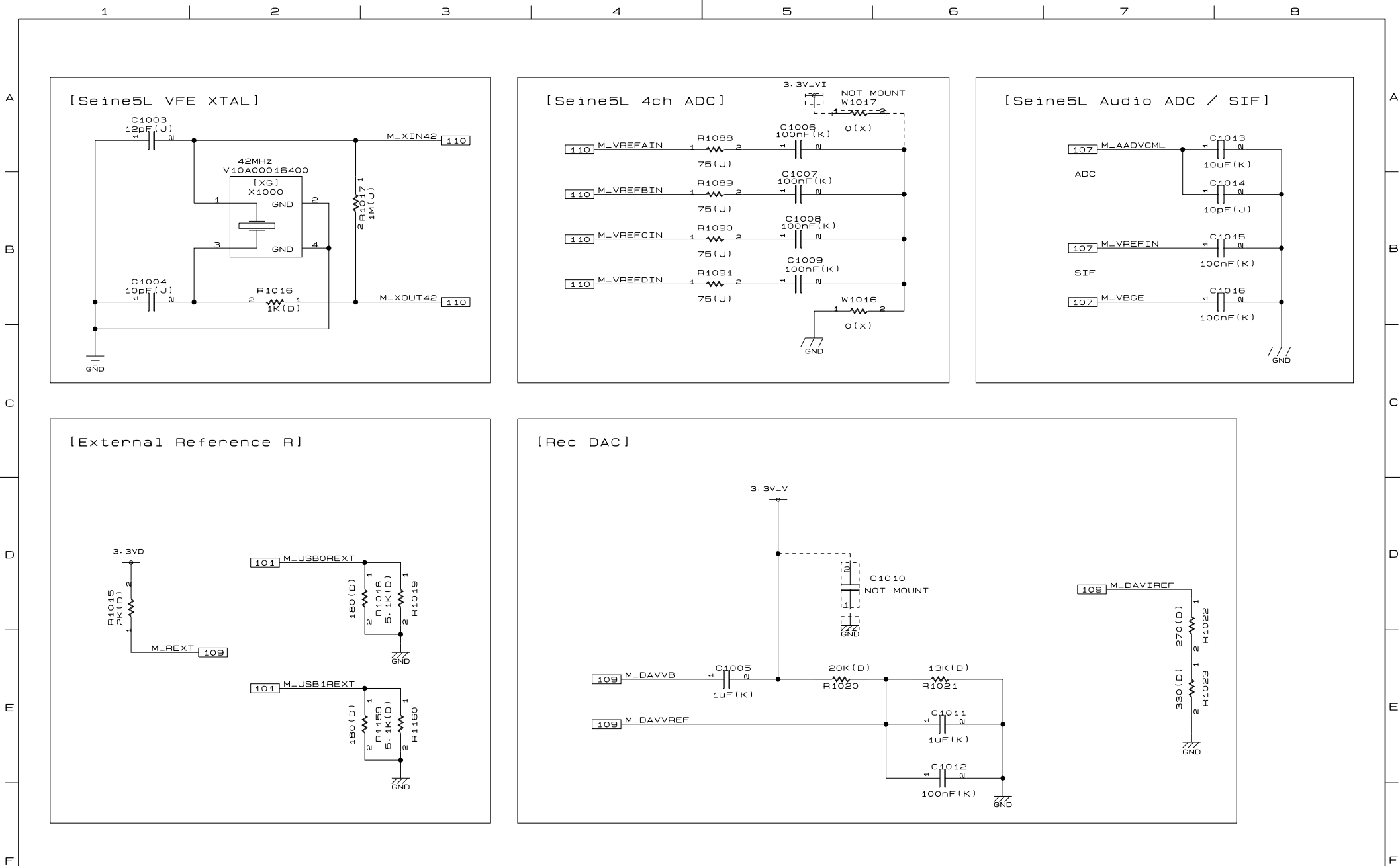
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TOSHIBA CORPORATION



DESIGNED BY 2011/02/10

T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L Crystal/Vref

SH. NO.

f116

PAGE NO.

16

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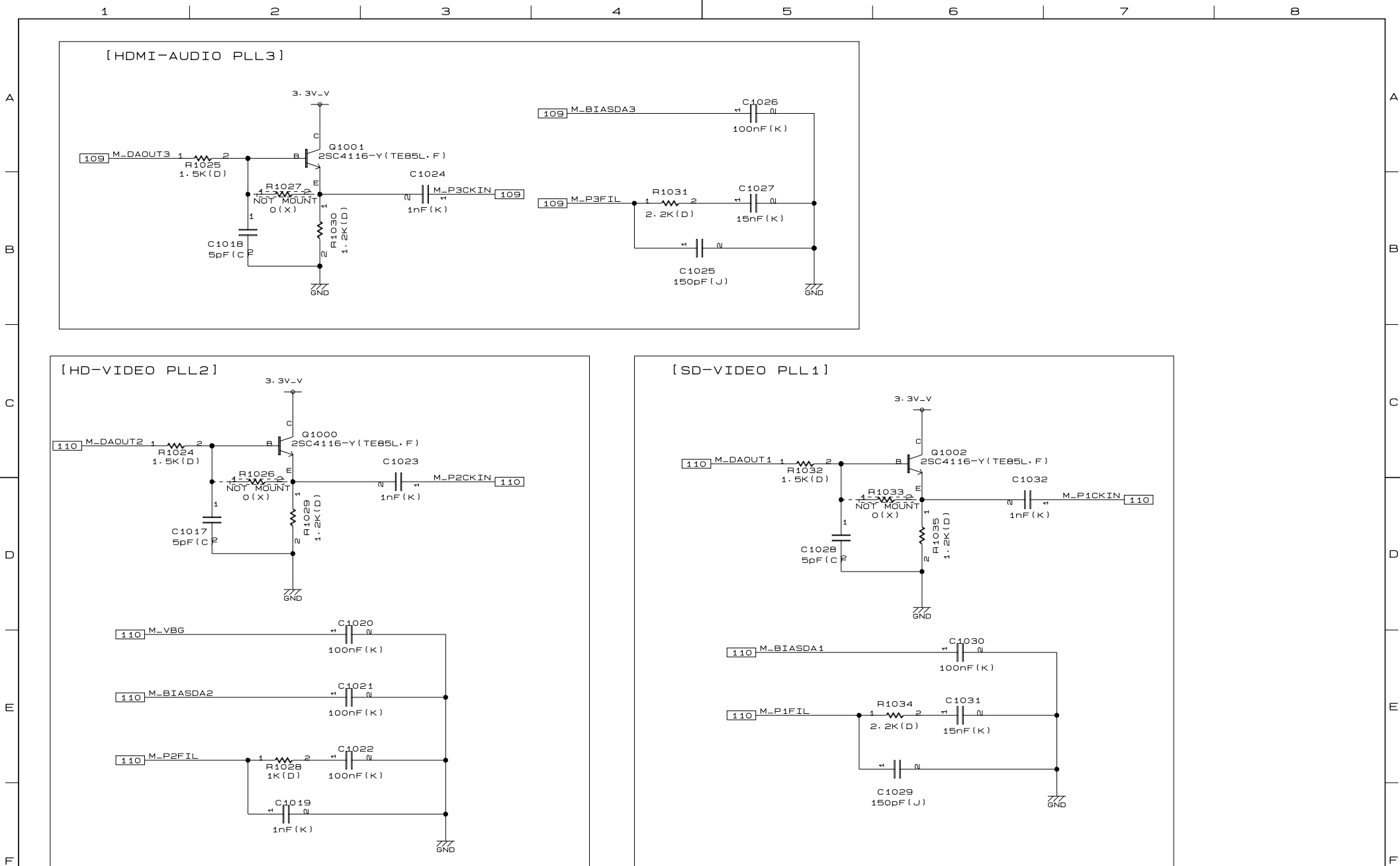
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L PLL/DAC

SH. NO.

117

PAGE NO.

17

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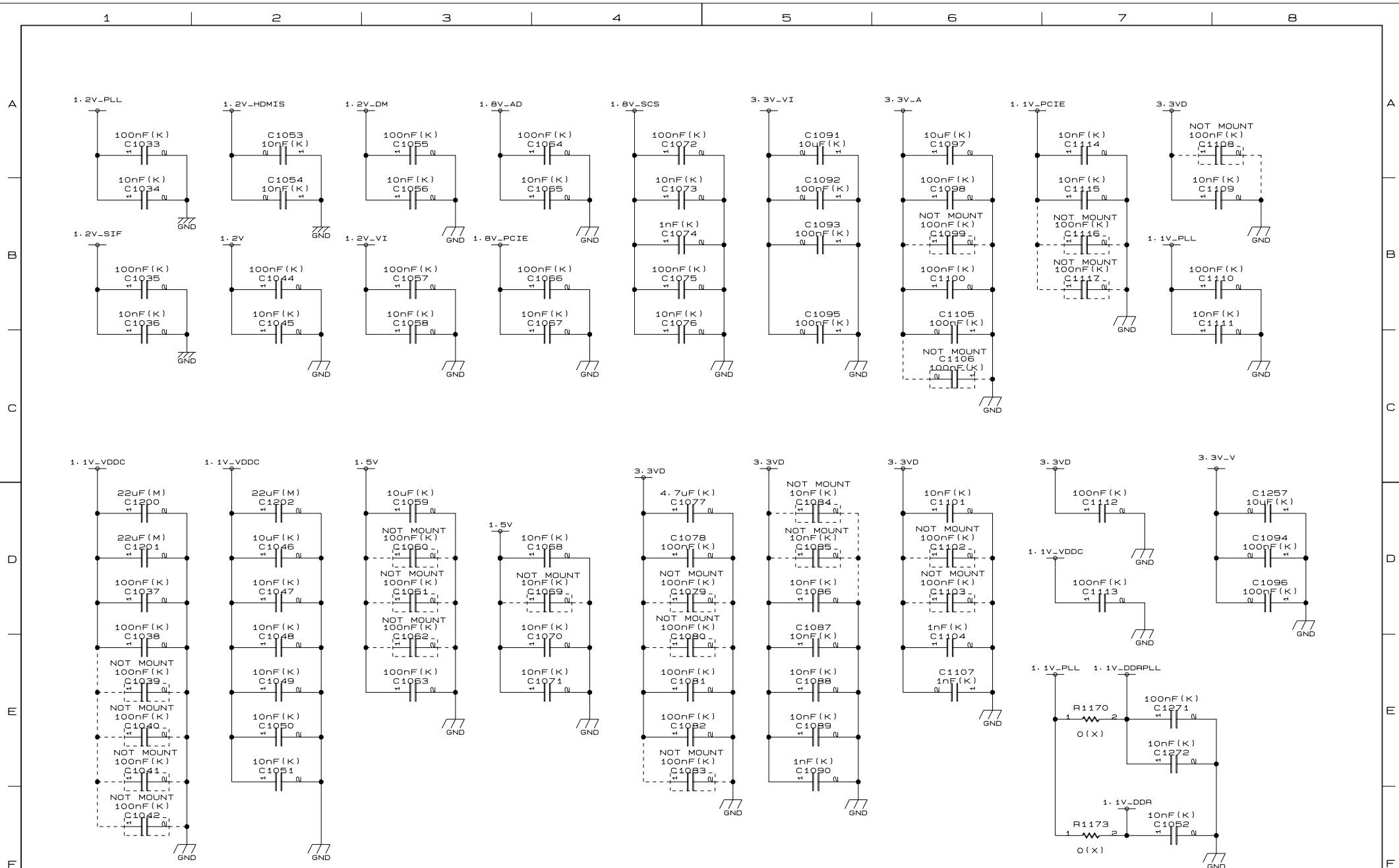
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L Capacitor

SH. NO.

118

PAGE NO.

18

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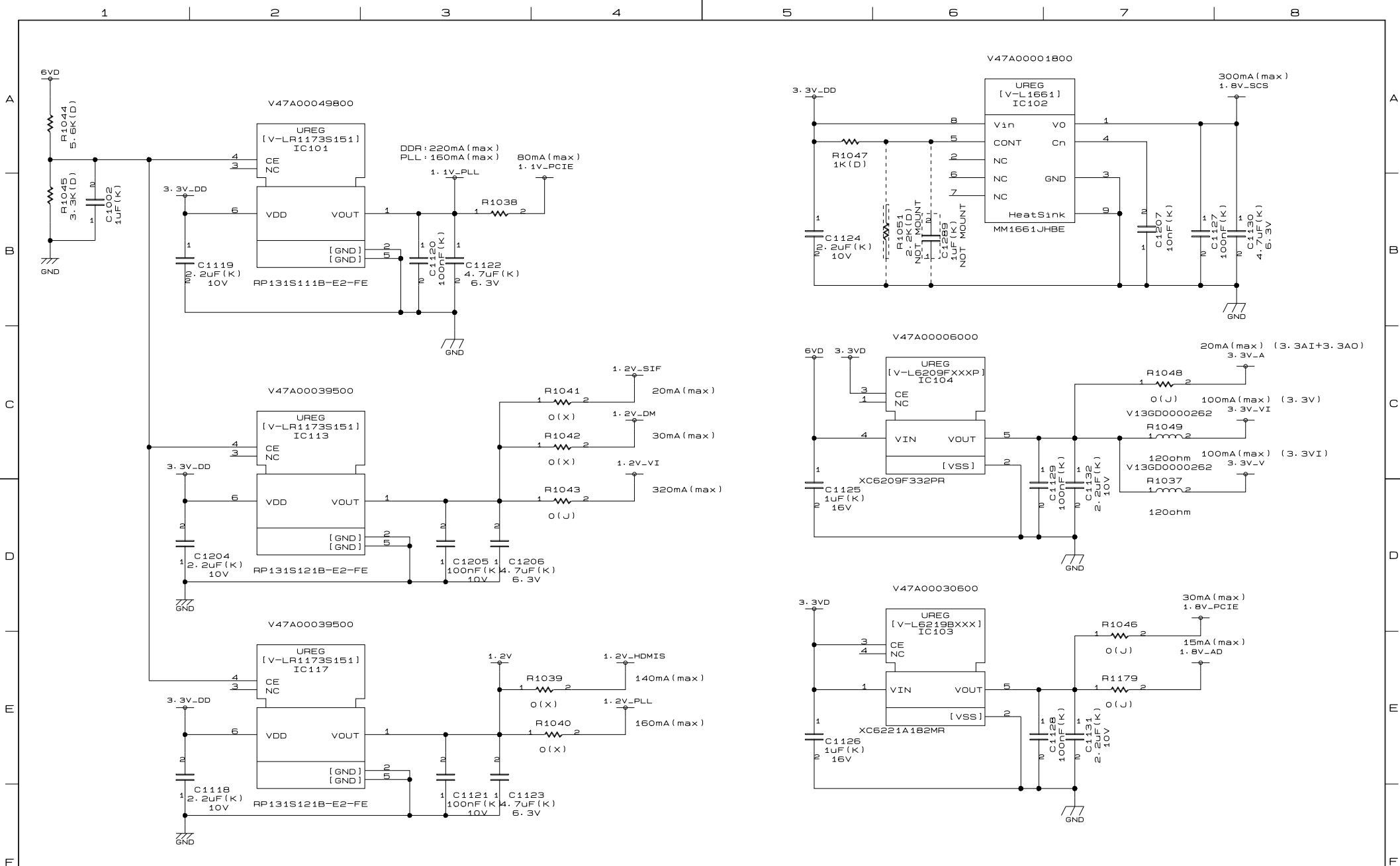
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

S5L A_PWR-REG

SH. NO.

119

PAGE NO.

19

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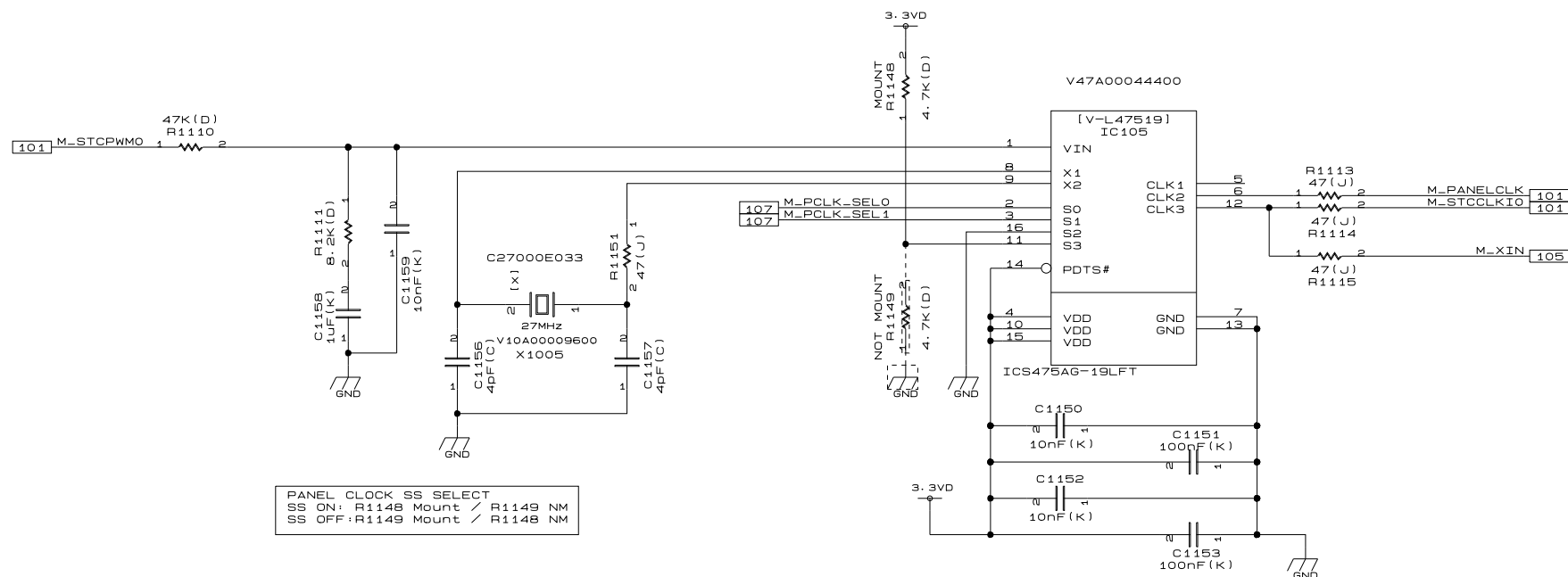
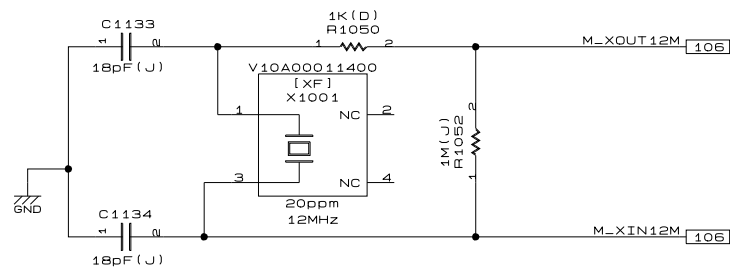
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TOSHIBA CORPORATION



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TITLE

MAIN UNIT

FUNCTION

CLOCK/VCXO

SH. NO.

120

PAGE NO.

20

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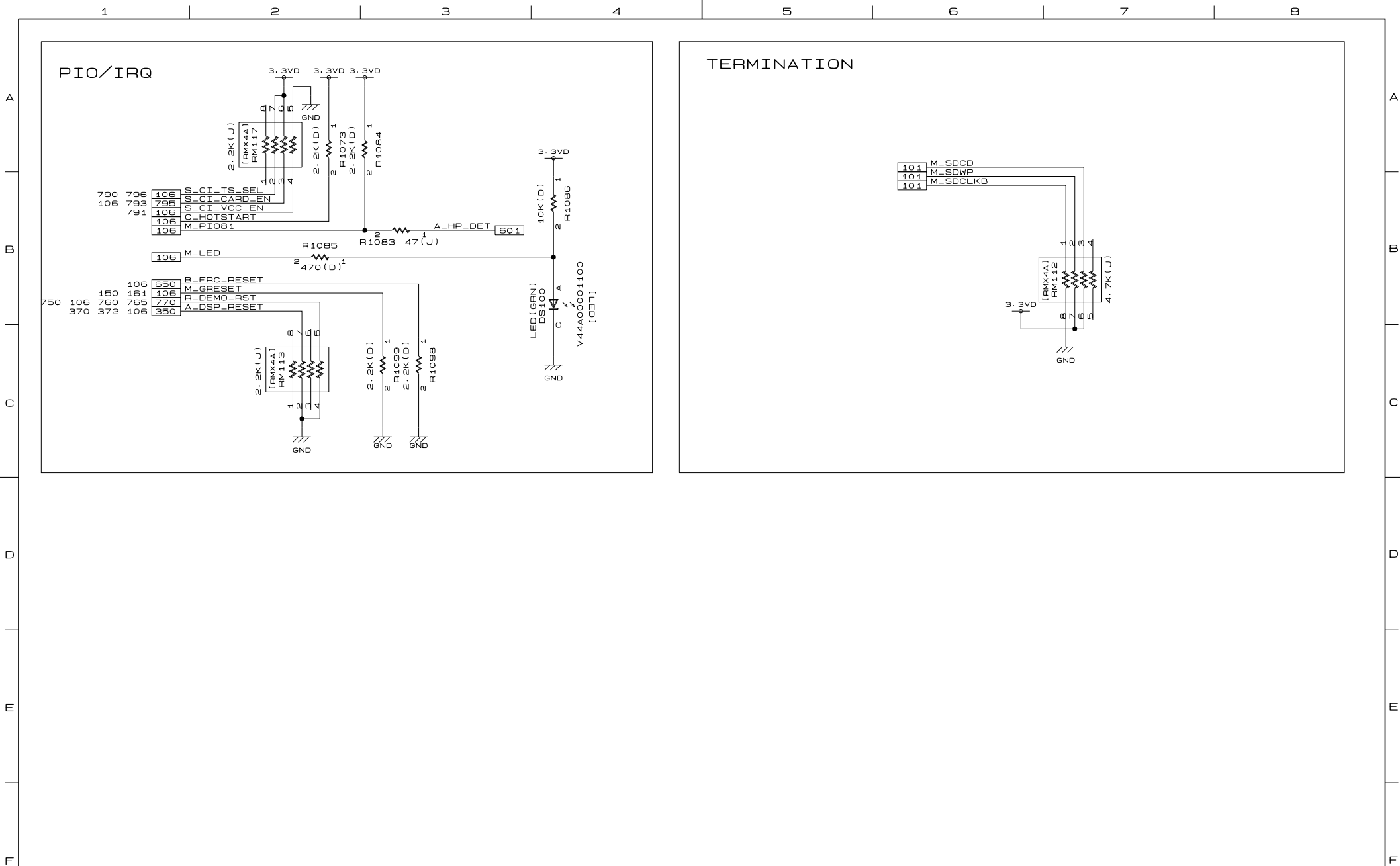
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TOSHIBA CORPORATION



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T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

PIO/IRQ

SH. NO.

122

PAGE NO.

21

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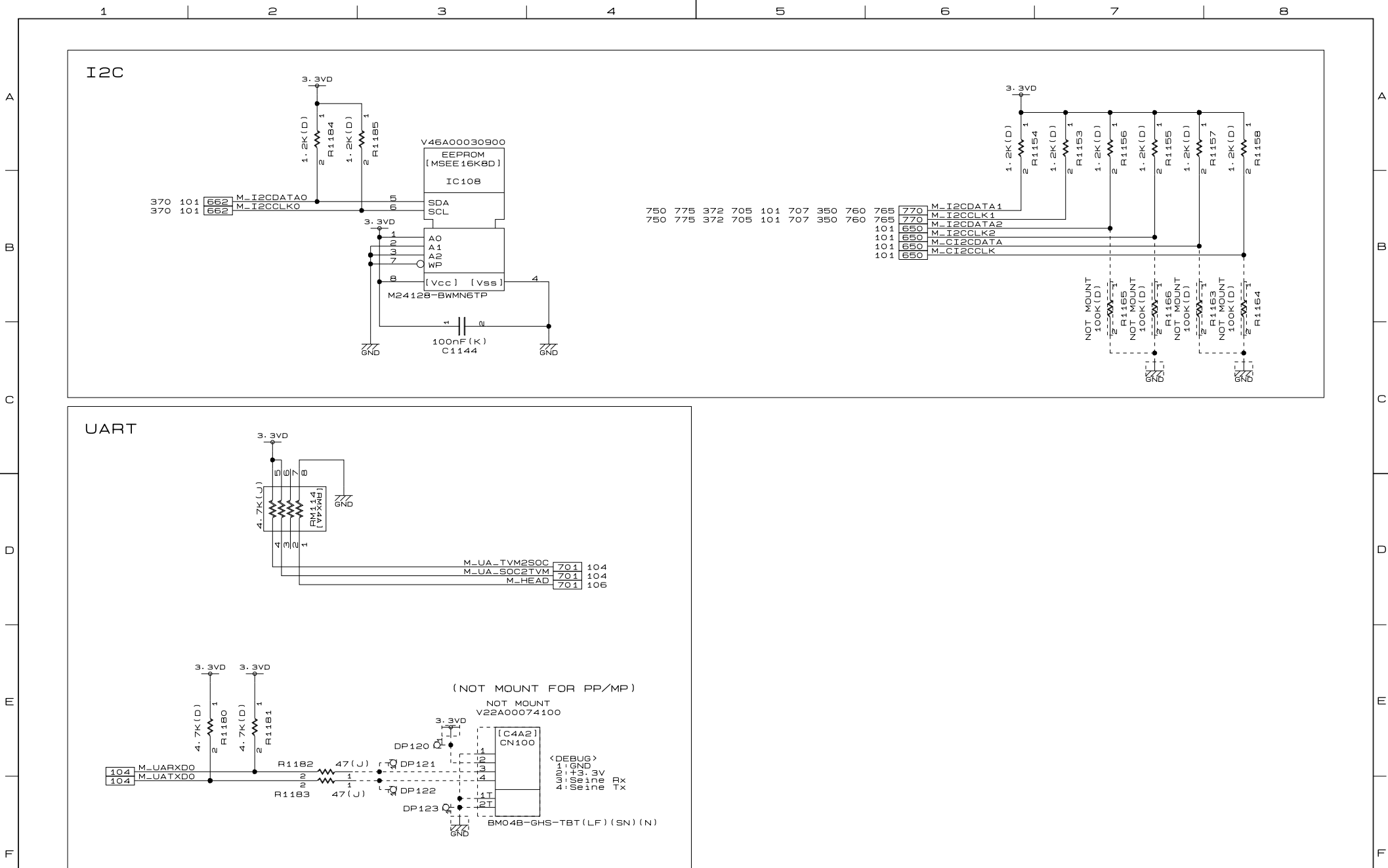
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TOSHIBA CORPORATION



DESIGNED BY 2011/02/14

T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

I2C/UART

SH. NO.

124

PAGE NO.

22

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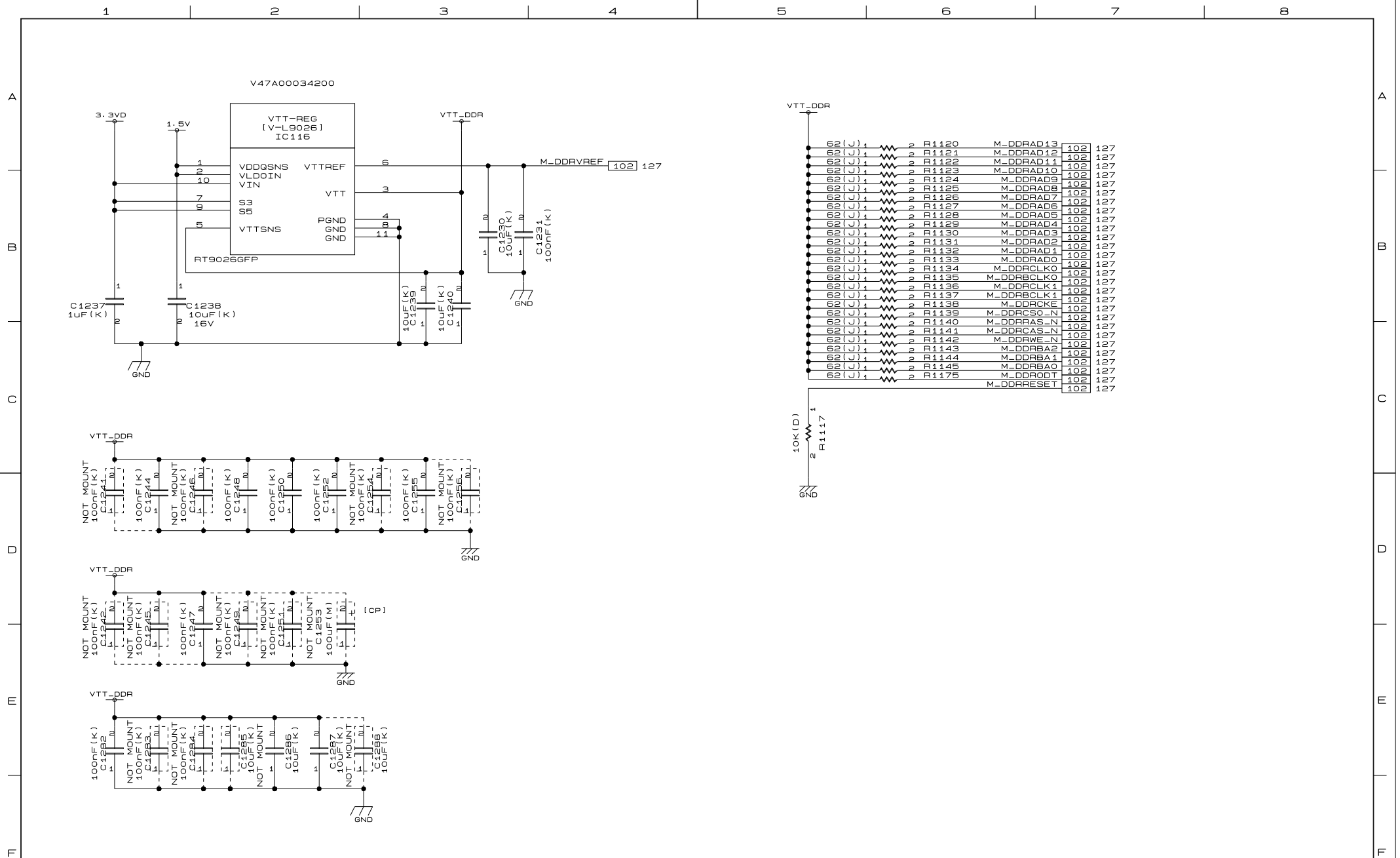
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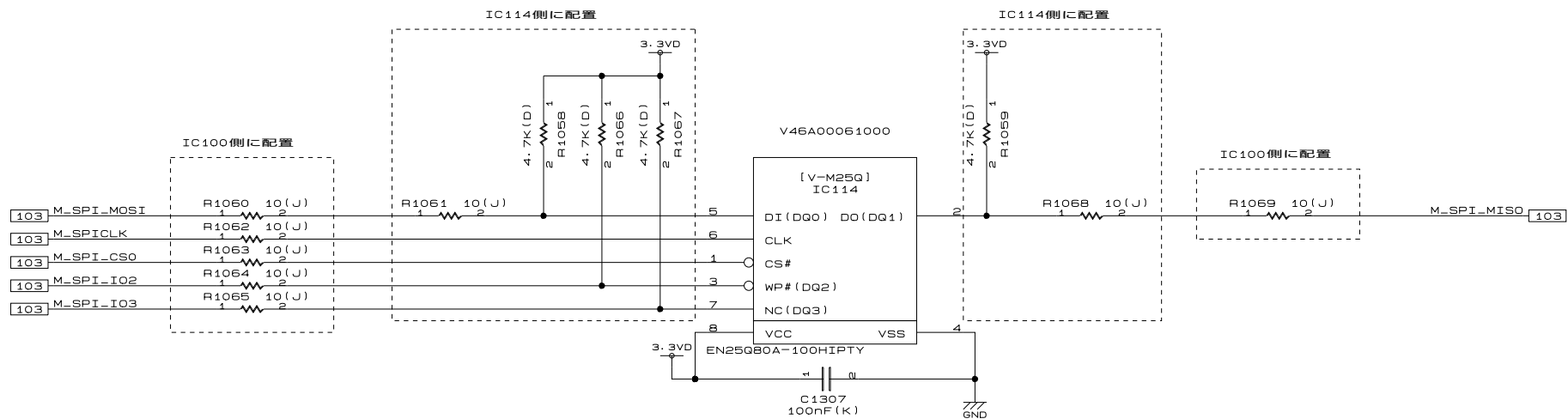
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MAIN UNITFUNCTION
DDR3 VTT/VREFSH. NO.
130PAGE NO.
24REV. MARK
PPDRAWING. NO.
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TOSHIBA CORPORATION



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MAIN UNIT

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SPI FLASH

SH. NO.
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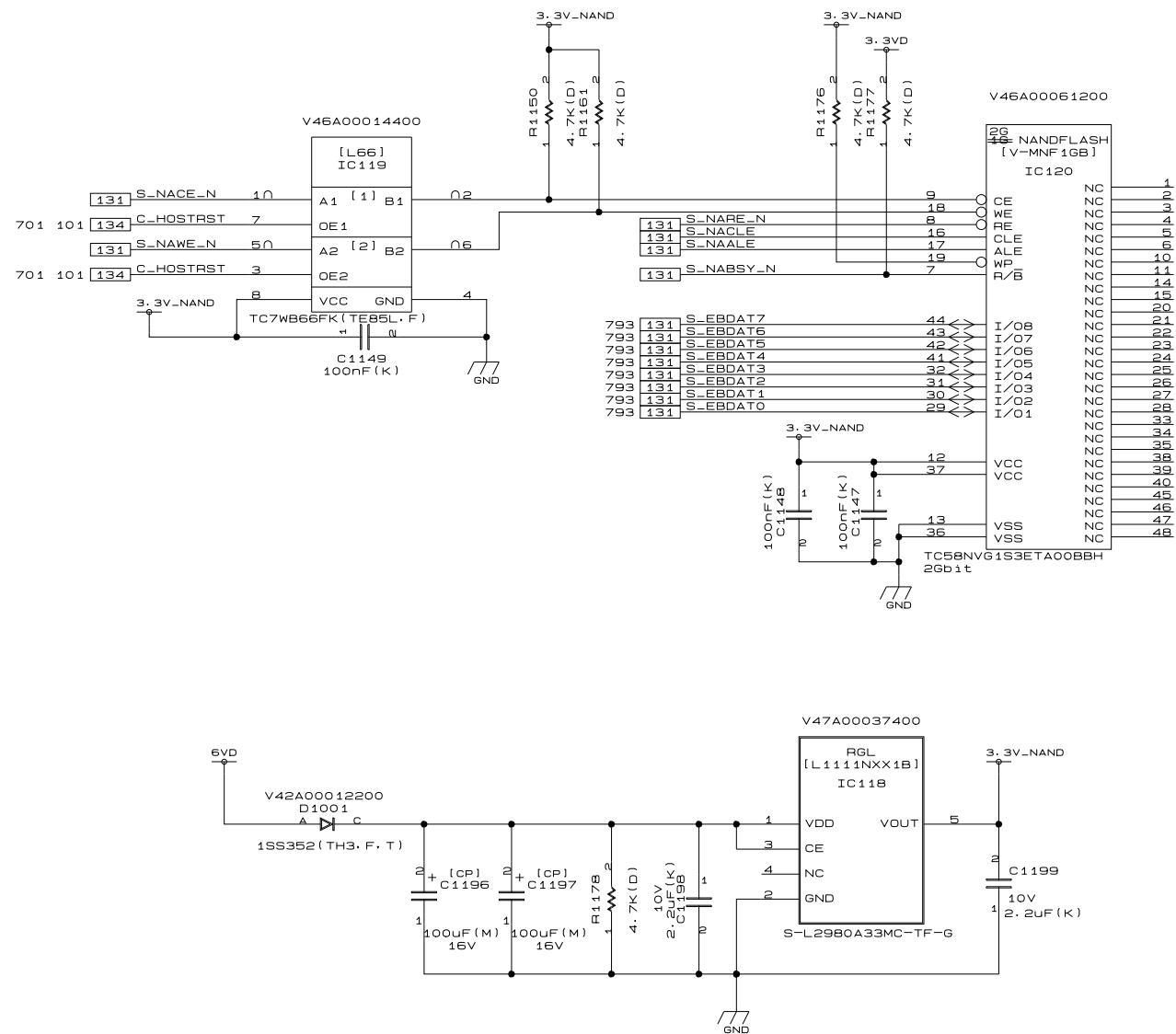
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TOSHIBA CORPORATION



DESIGNED BY 2011/02/10

T. SHIMIZU

TITLE

MAIN UNIT

FUNCTION

EBUS NAND FLASH 134

SH. NO.

PAGE NO.

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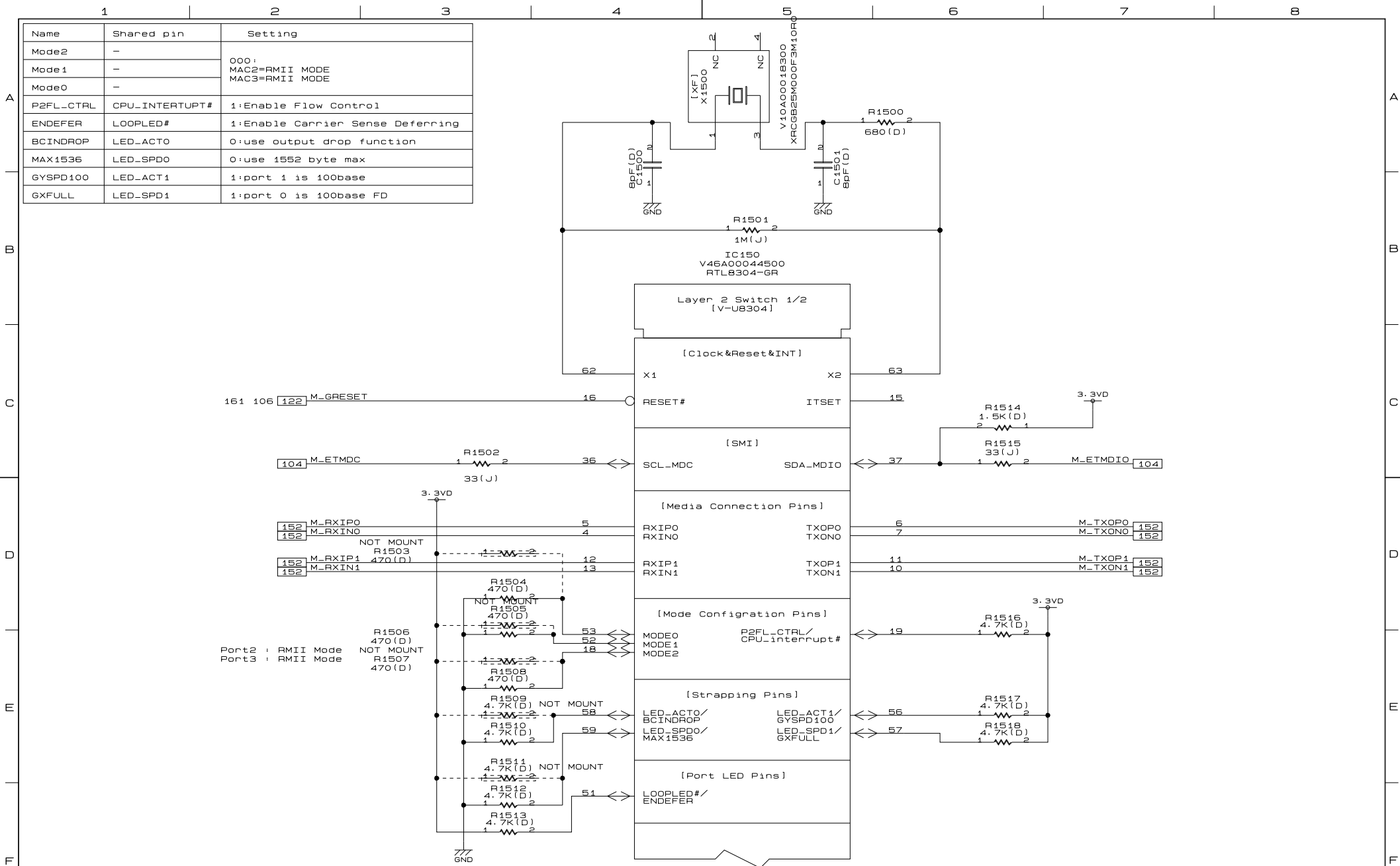
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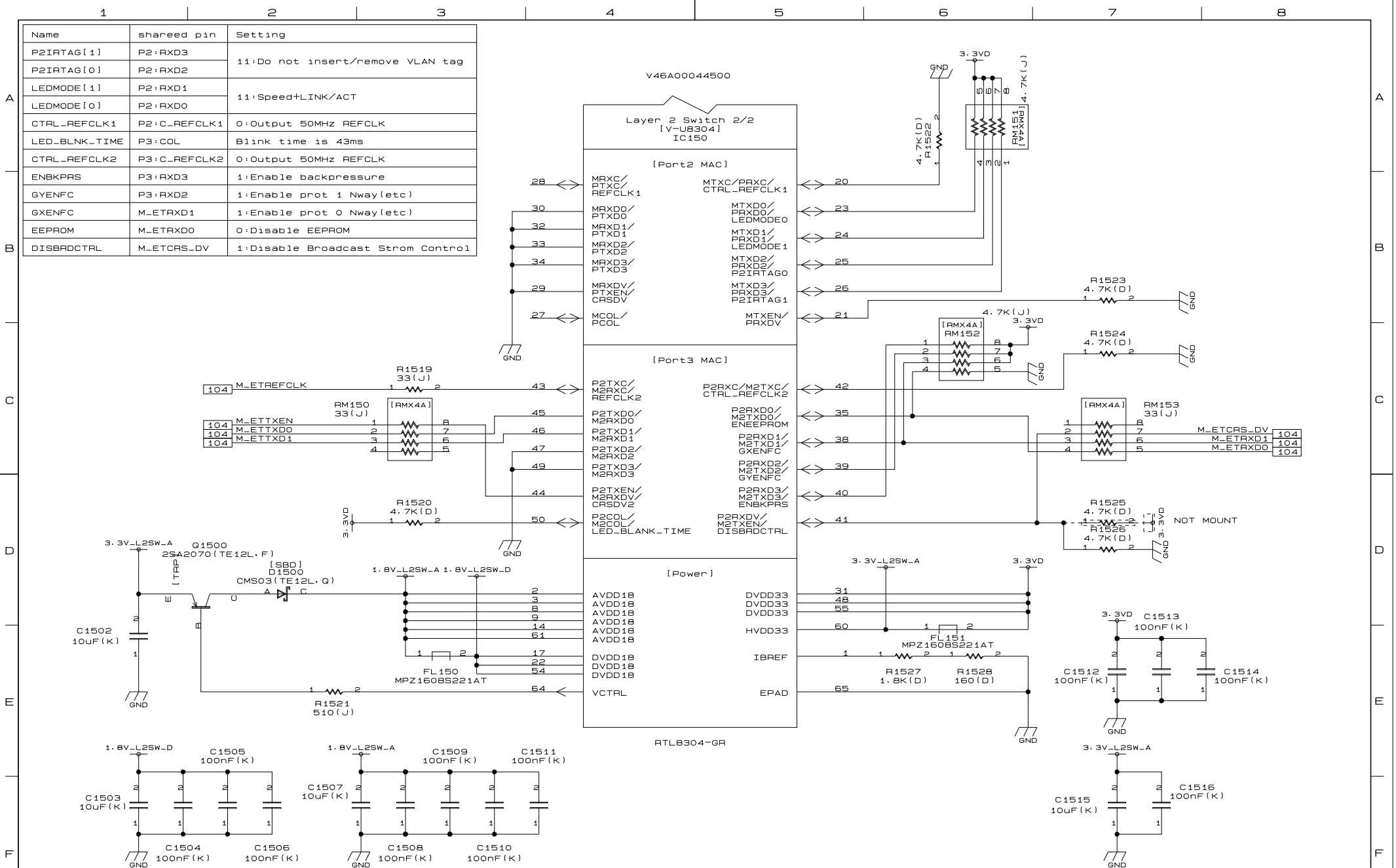
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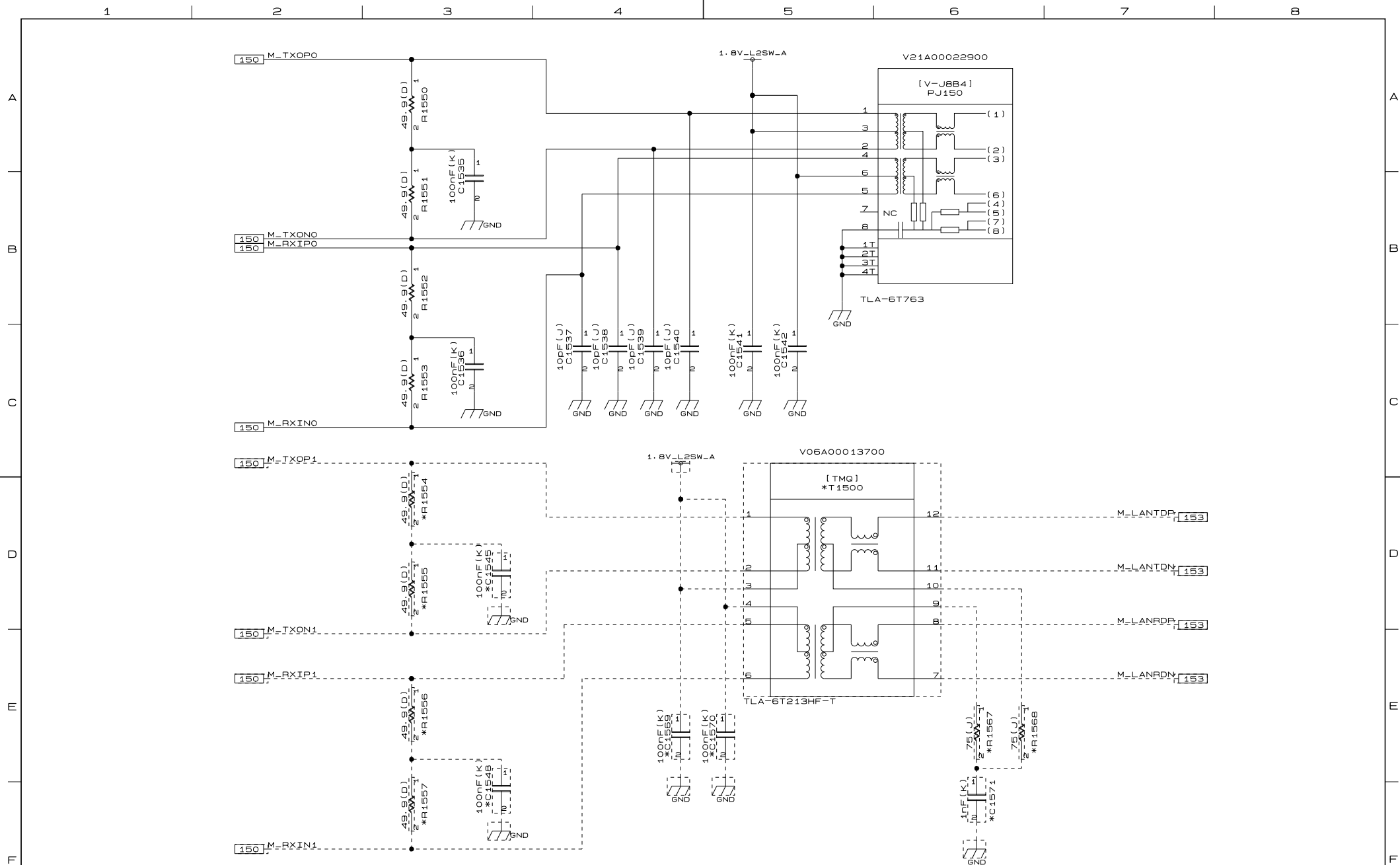
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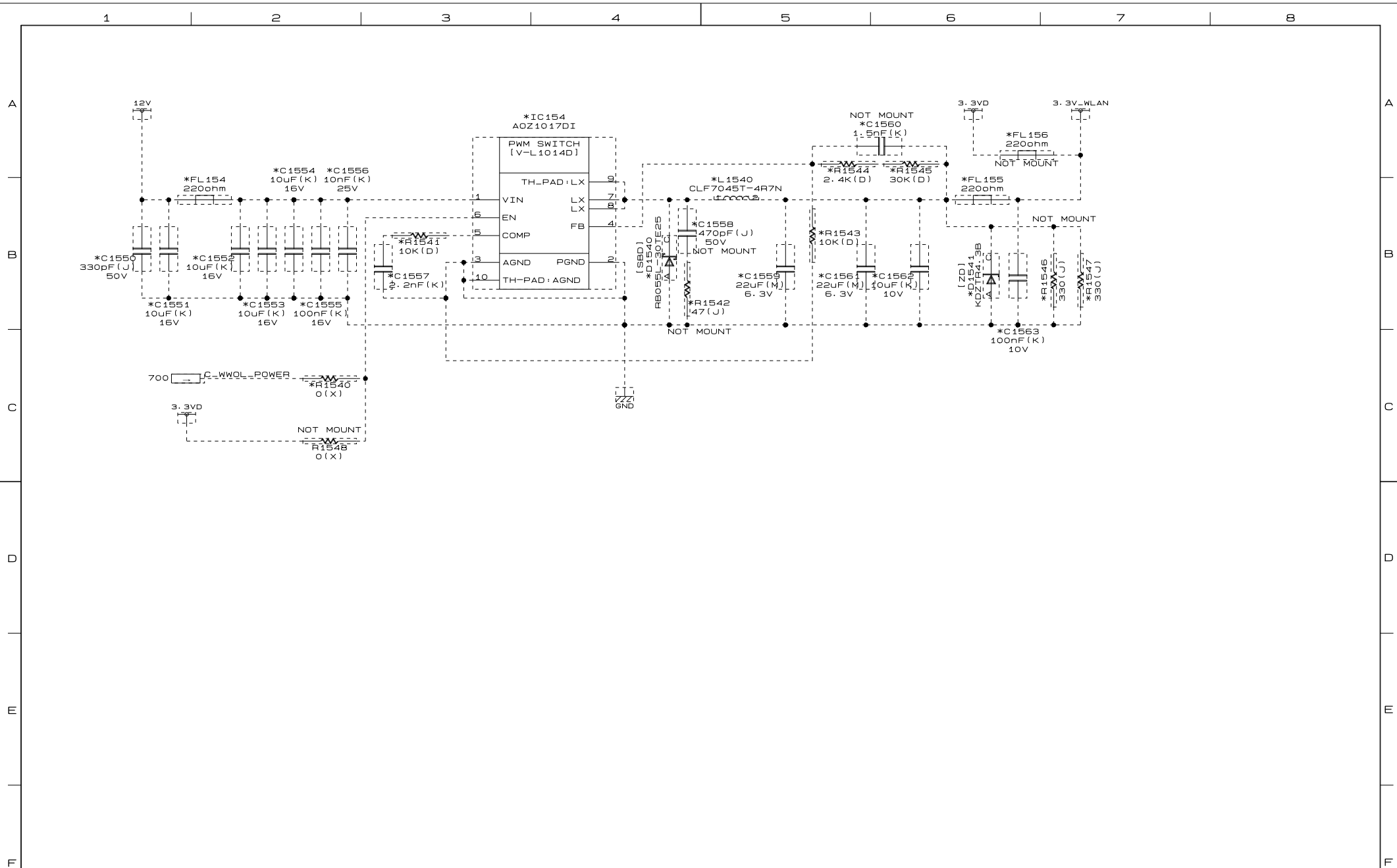
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TOSHIBA CORPORATION

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KOJIMATITLE
MAIN UNITFUNCTION
L2SW (MISC.)SH. NO.
150PAGE NO.
28REV. MARK
PPDRAWING. NO.
PE0993







DESIGNED BY 2011/02/10

MASAKI

TITLE

MAIN UNIT

FUNCTION

WLAN POWER

SH. NO.

154

PAGE NO.

32

REV. MARK

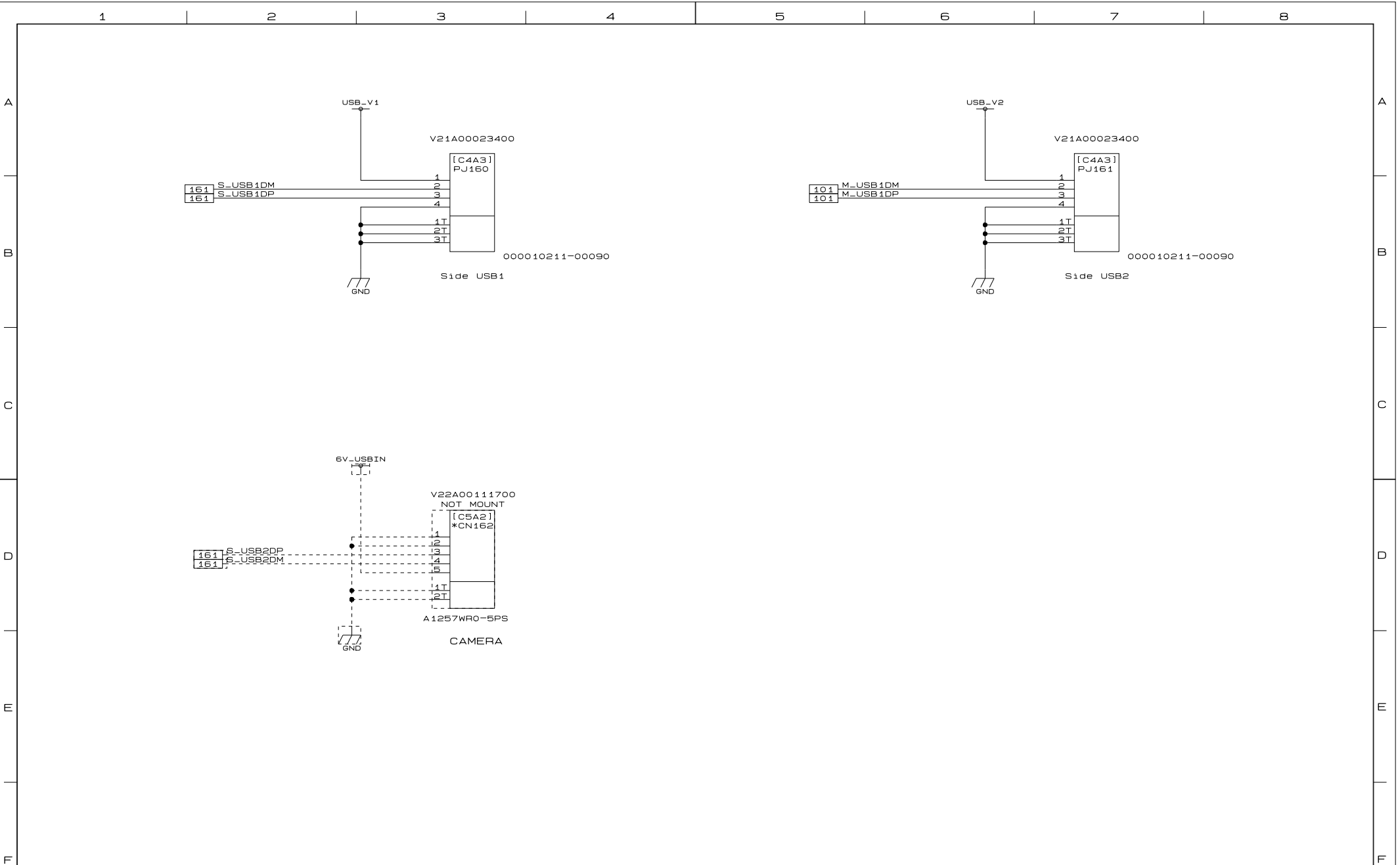
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

KOJIMA

TITLE

MAIN UNIT

FUNCTION

USB CONNECTOR

SH. NO.

160

PAGE NO.

33

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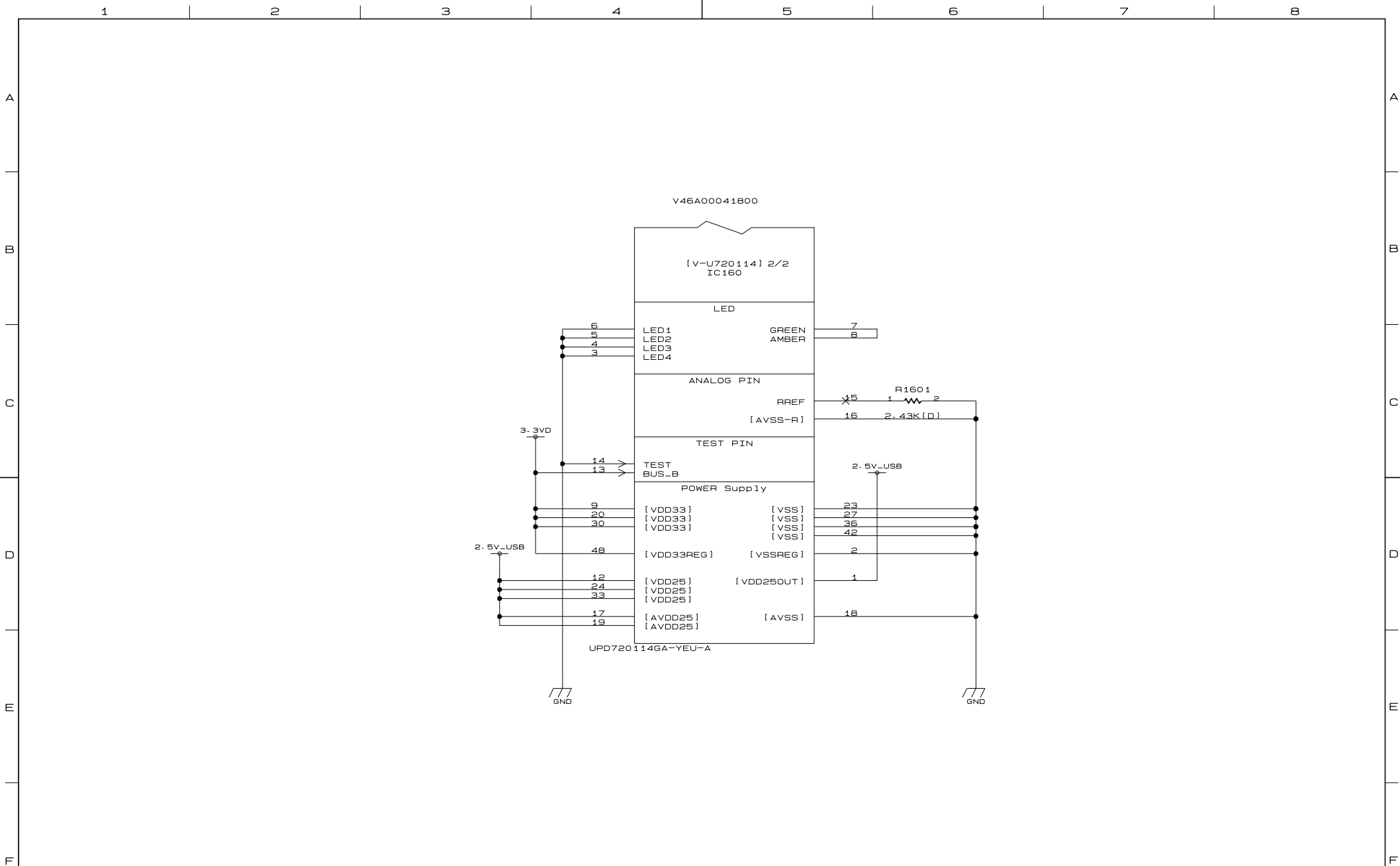
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TOSHIBA CORPORATION



DESIGNED BY

KOJIMA

TITLE

MAIN UNIT

FUNCTION

USB HUB

SH. NO.

162

PAGE NO.

35

REV. MARK

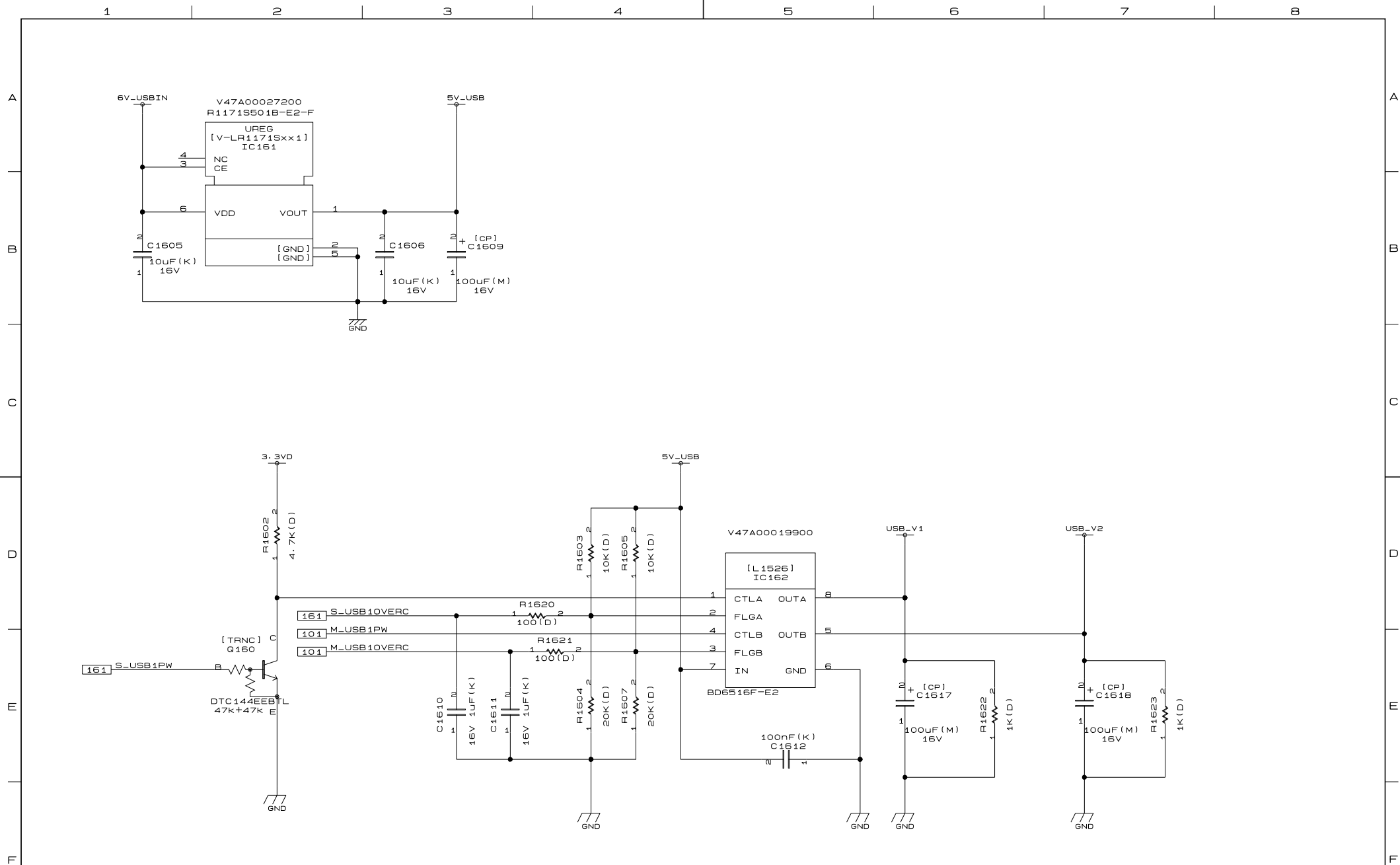
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

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TITLE

MAIN UNIT

FUNCTION

USB POWER

SH. NO.

163

PAGE NO.

36

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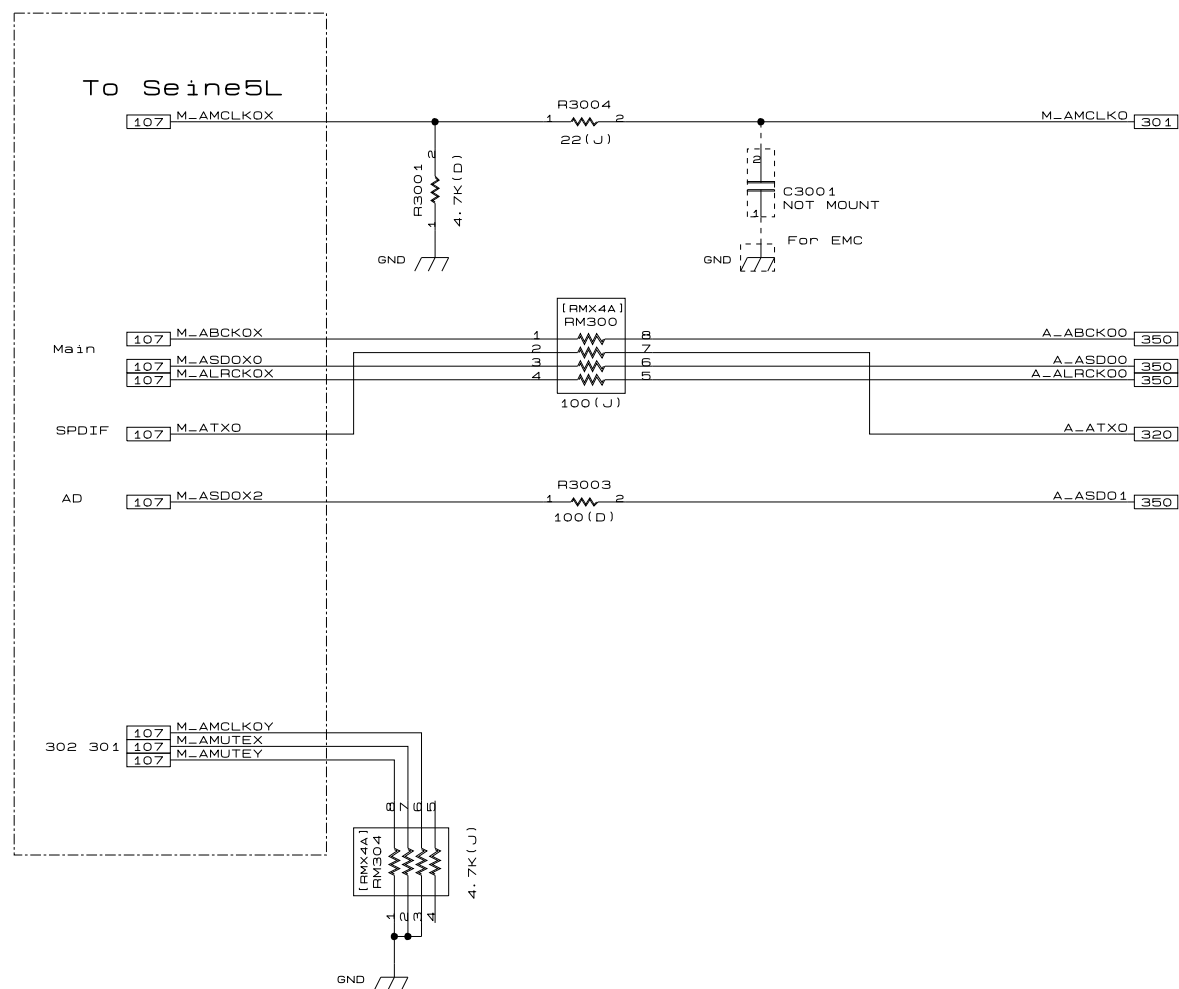
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TOSHIBA CORPORATION



DESIGNED BY
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TITLE
MAIN UNIT

FUNCTION
AUDIO RESISTOR

SH. NO.
300

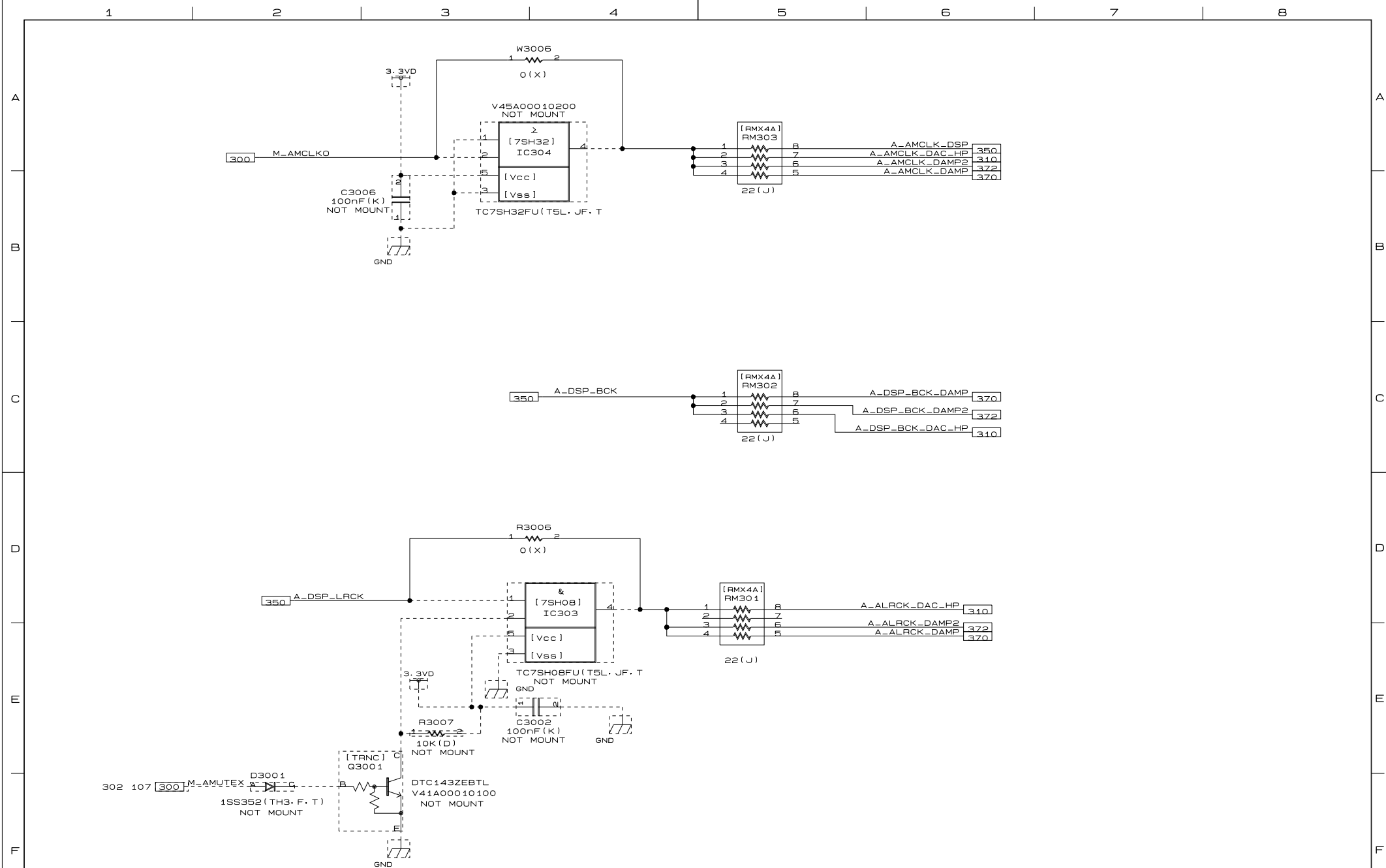
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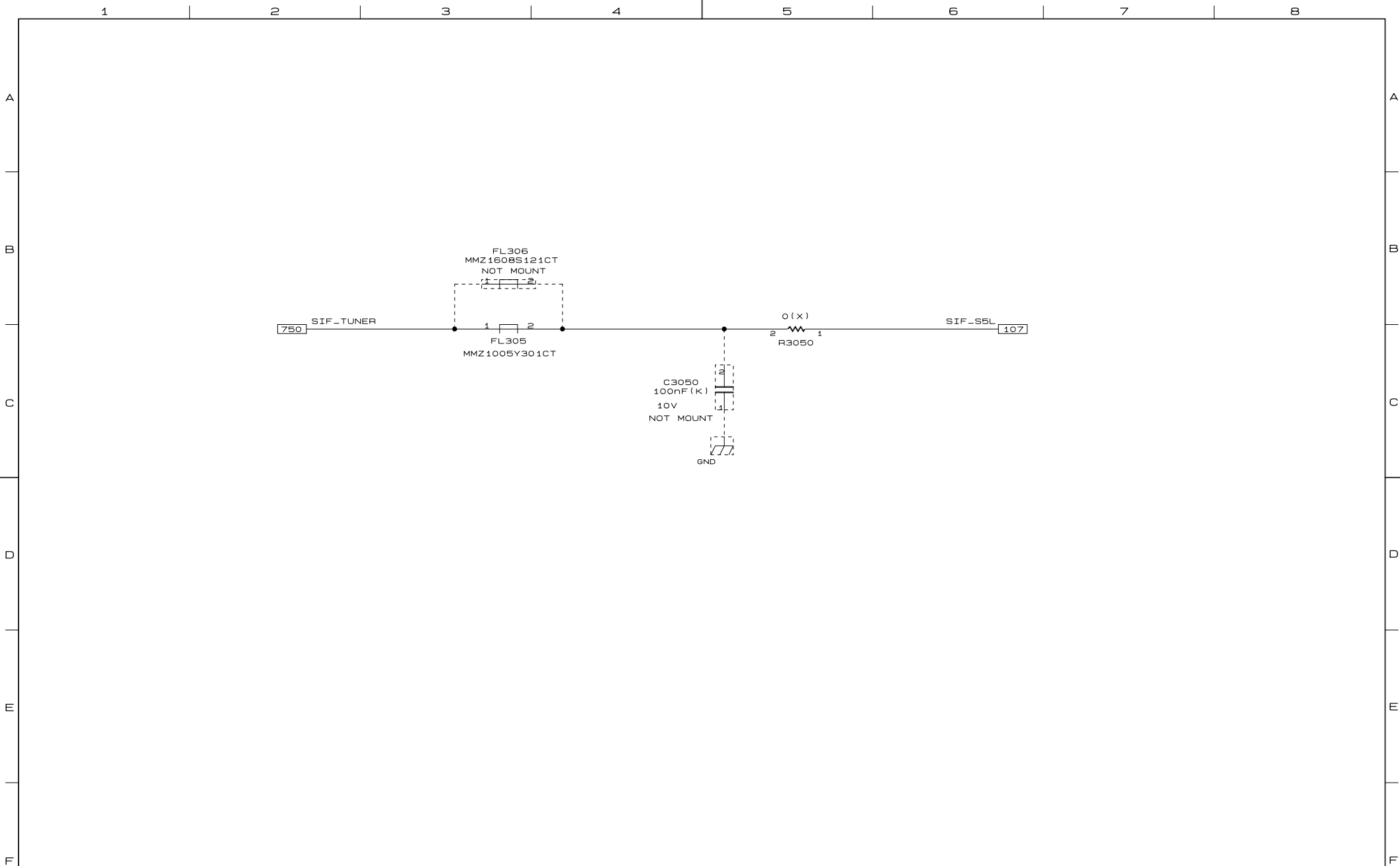
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TOSHIBA CORPORATION

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AUDIO I2S CLKSH. NO.
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PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

Ookouchi

TITLE

MAIN UNIT

FUNCTION

AUDIO SIF

SH. NO.

305

PAGE NO.

40

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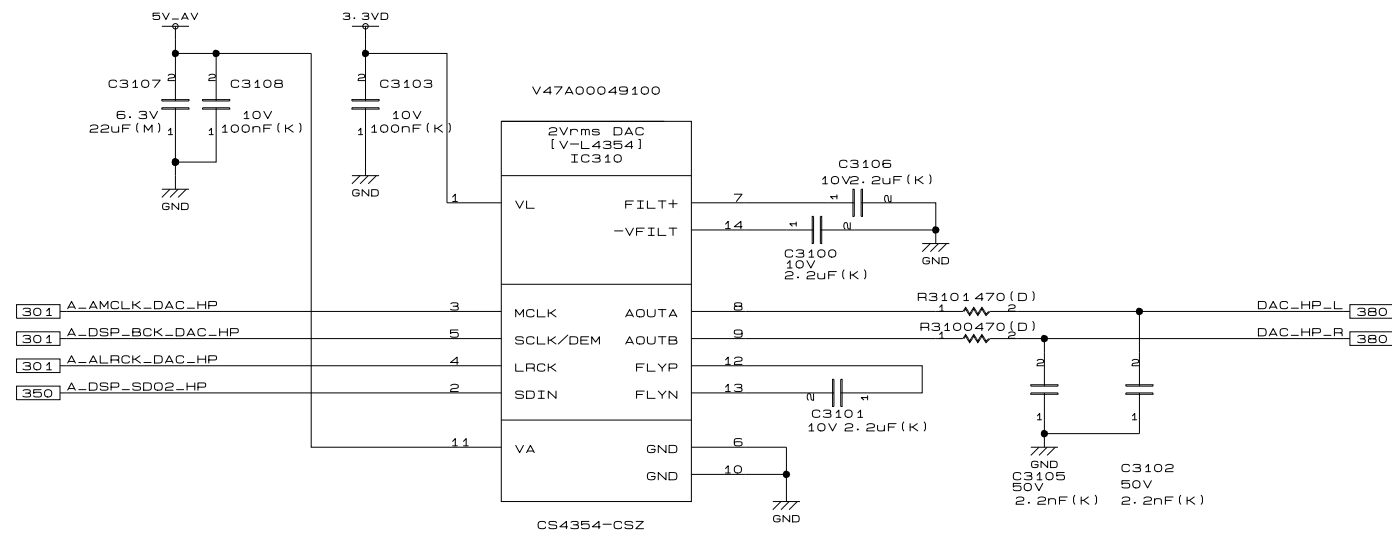
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TOSHIBA CORPORATION



DESIGNED BY
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AUDIO DAC (HP_MAIN)

SH. NO.
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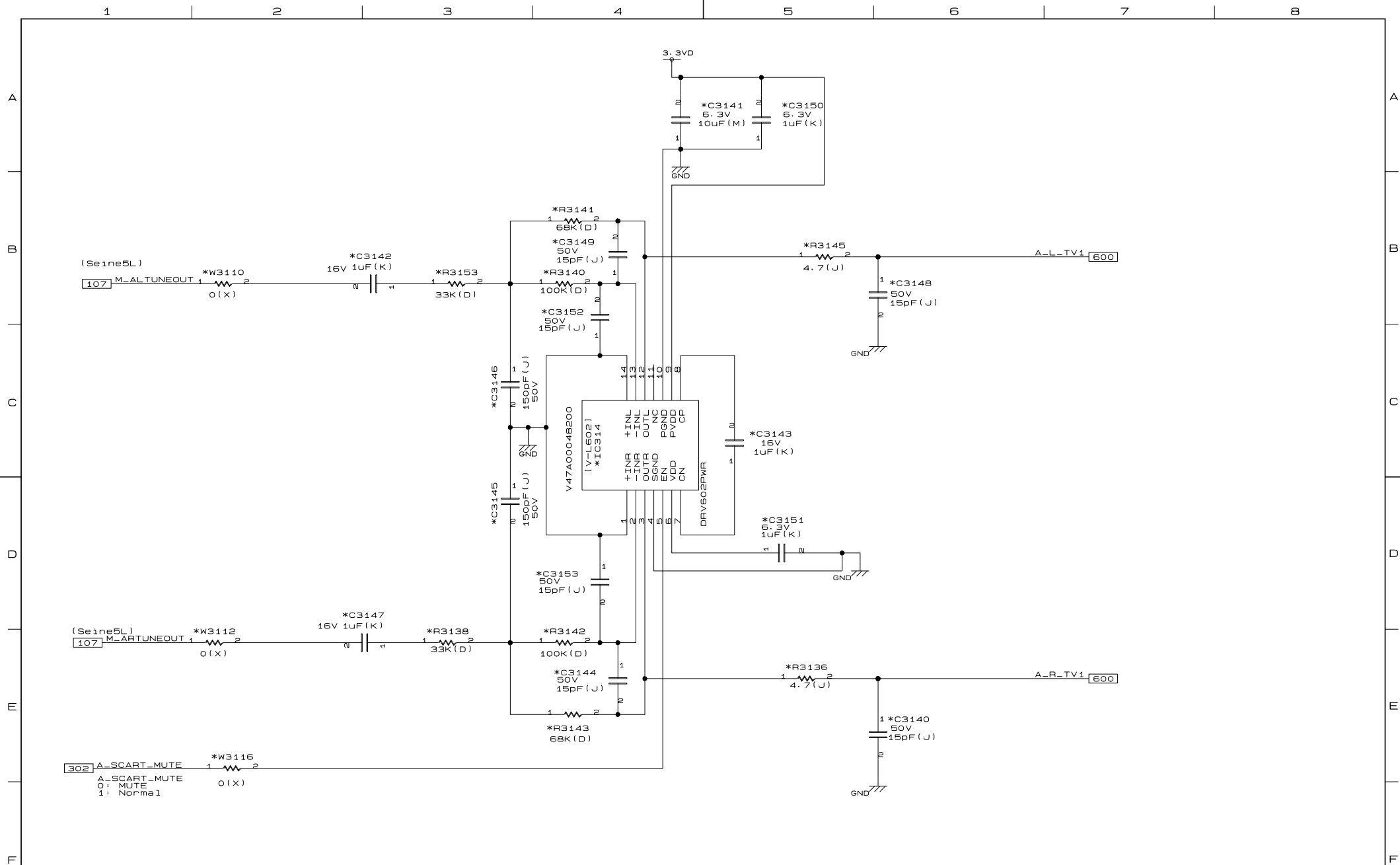
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PE0993

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TOSHIBA CORPORATION



DESIGNED BY

Endo

TITLE

MAIN UNIT

FUNCTION

AUDIO Linedriver (TVPOUT)

SH. NO.

312

PAGE NO.

42

REV. MARK

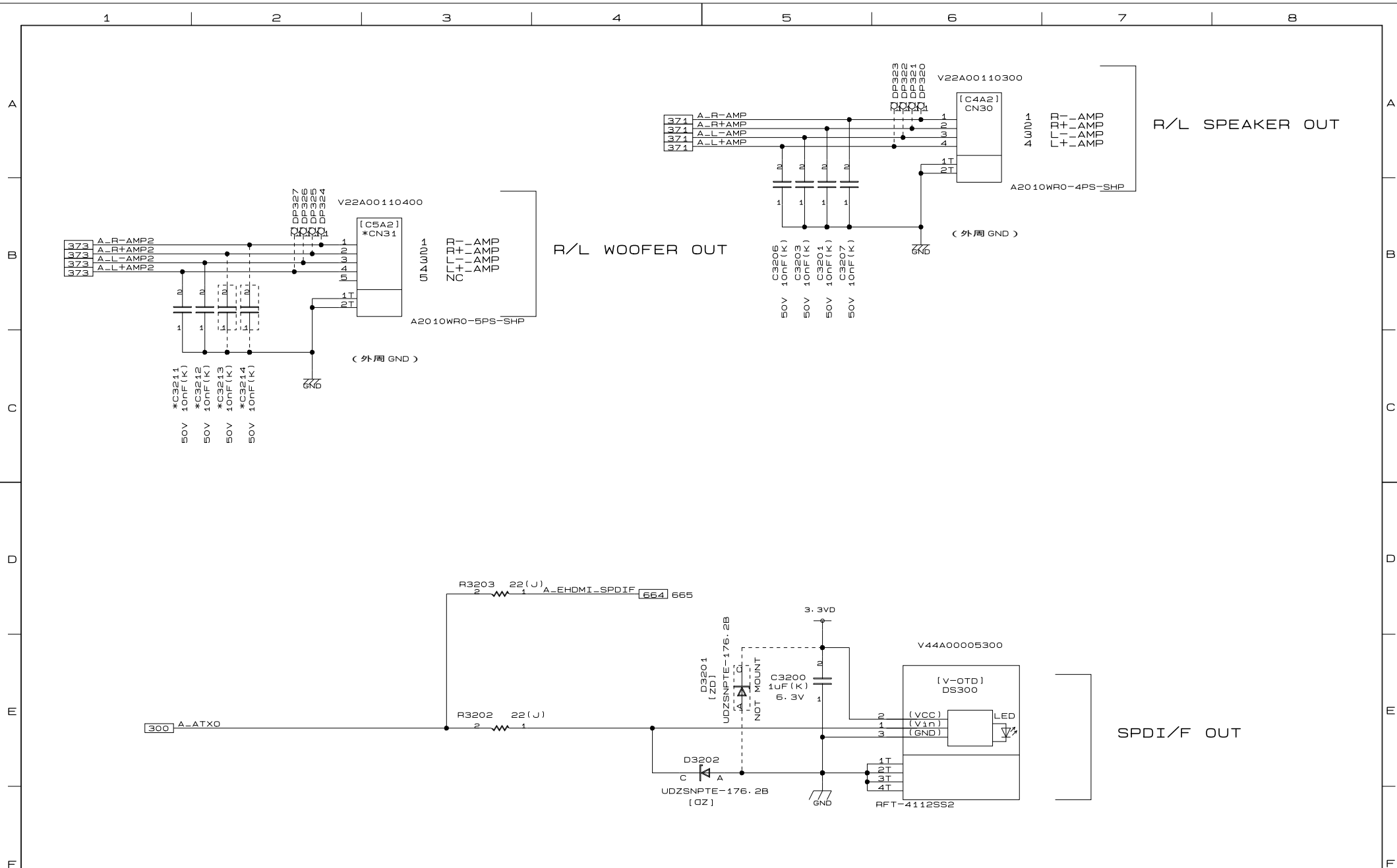
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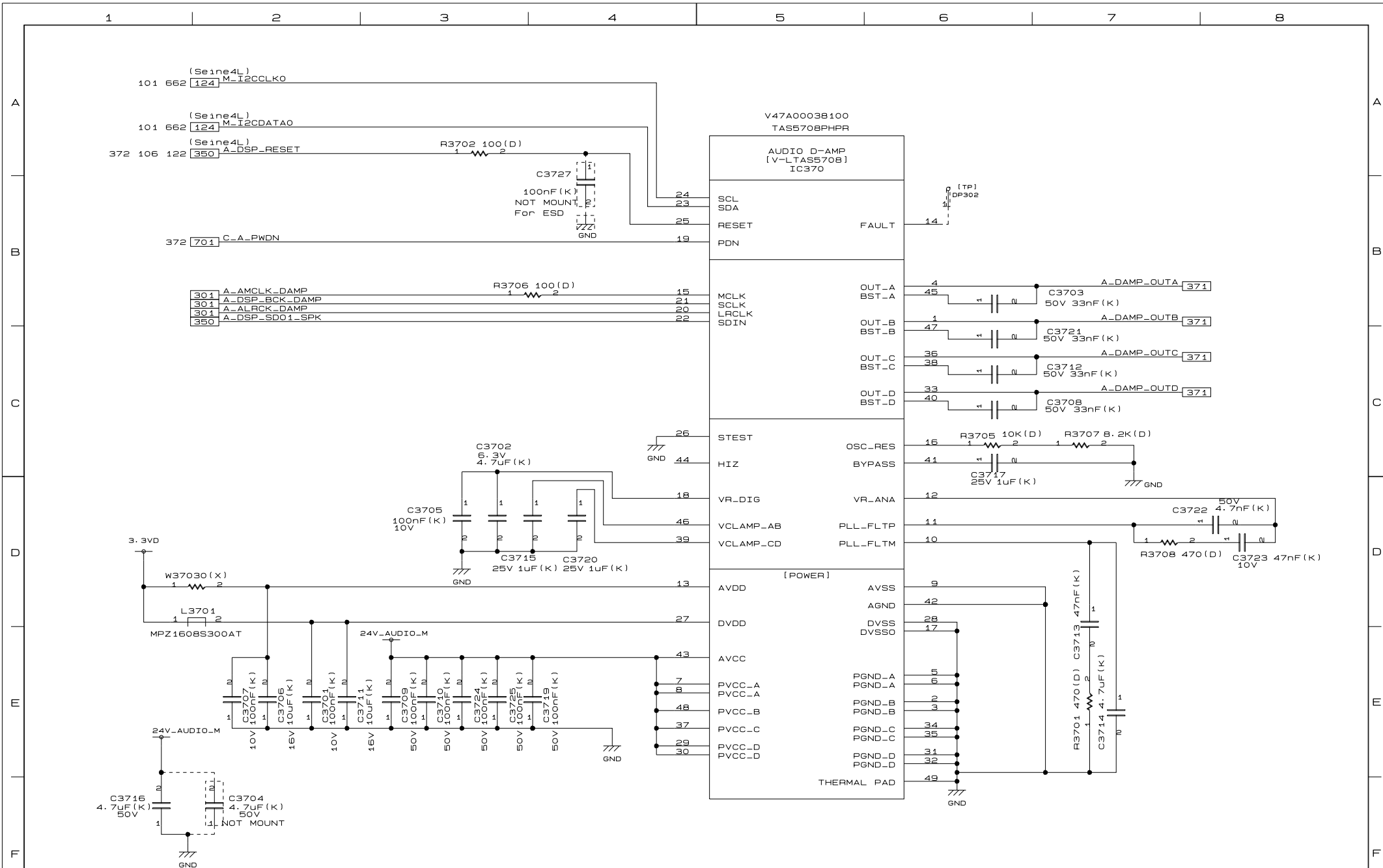
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TOSHIBA CORPORATION

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MAIN UNITFUNCTION
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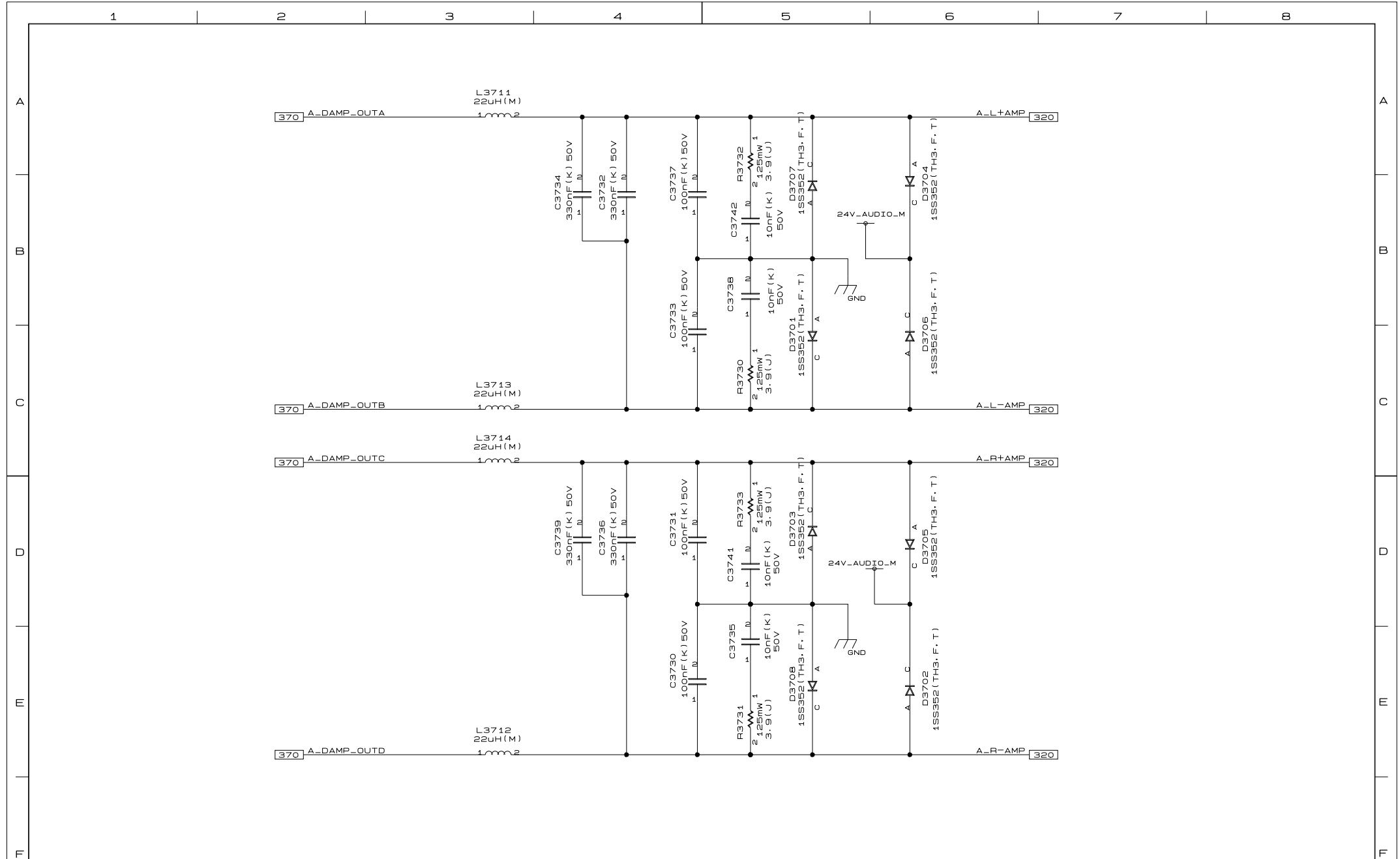
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TOSHIBA CORPORATION

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370PAGE NO.
45REV. MARK
PPDRAWING. NO.
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TOSHIBA CORPORATION



DESIGNED BY
Endo

TITLE
MAIN UNIT

FUNCTION
AUDIO AMP FILTER

SH. NO.
371

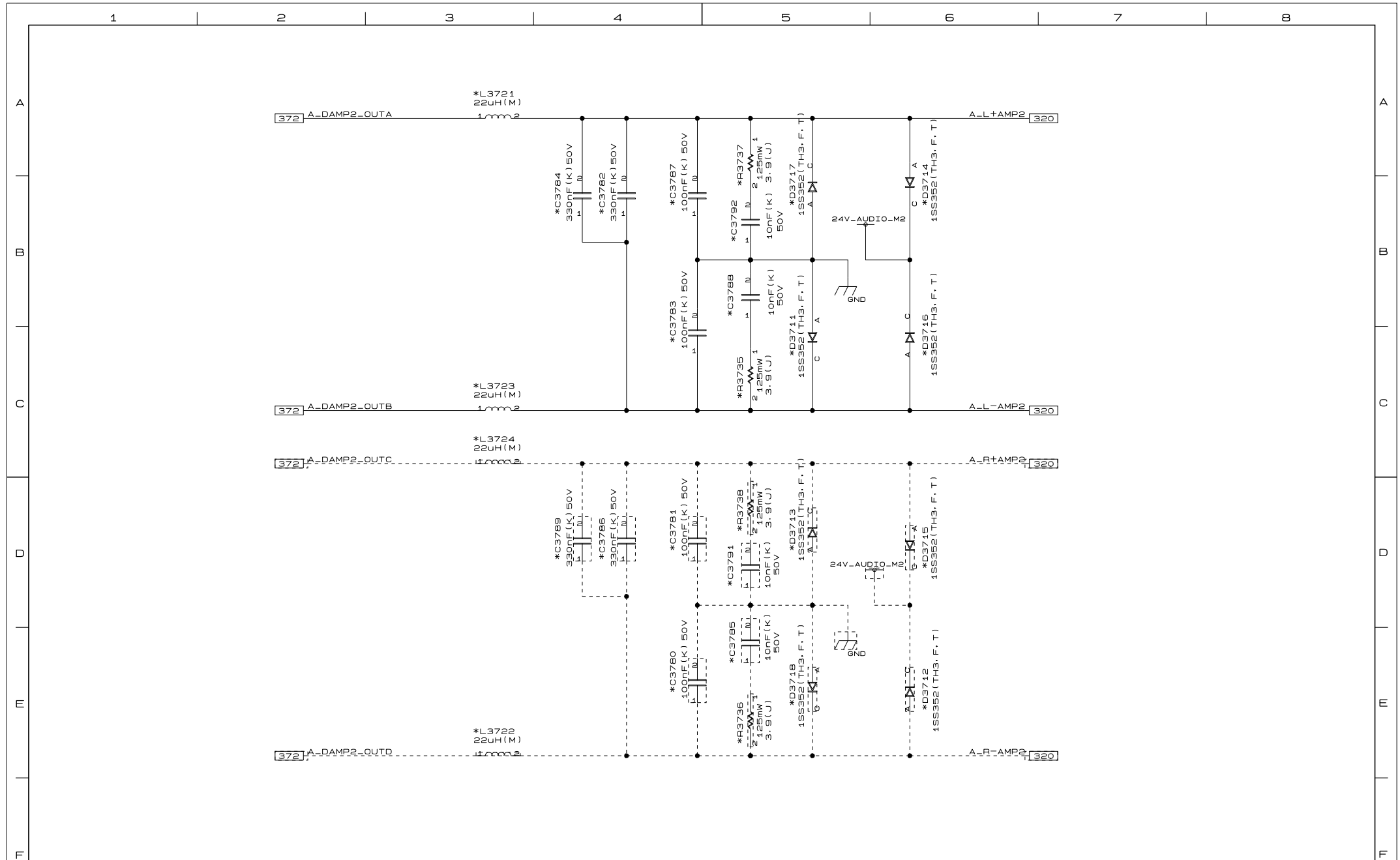
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TOSHIBA CORPORATION



DESIGNED BY
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TITLE
MAIN UNIT

FUNCTION
AUDIO AMP FILTER (Wo)

SH. NO.
373

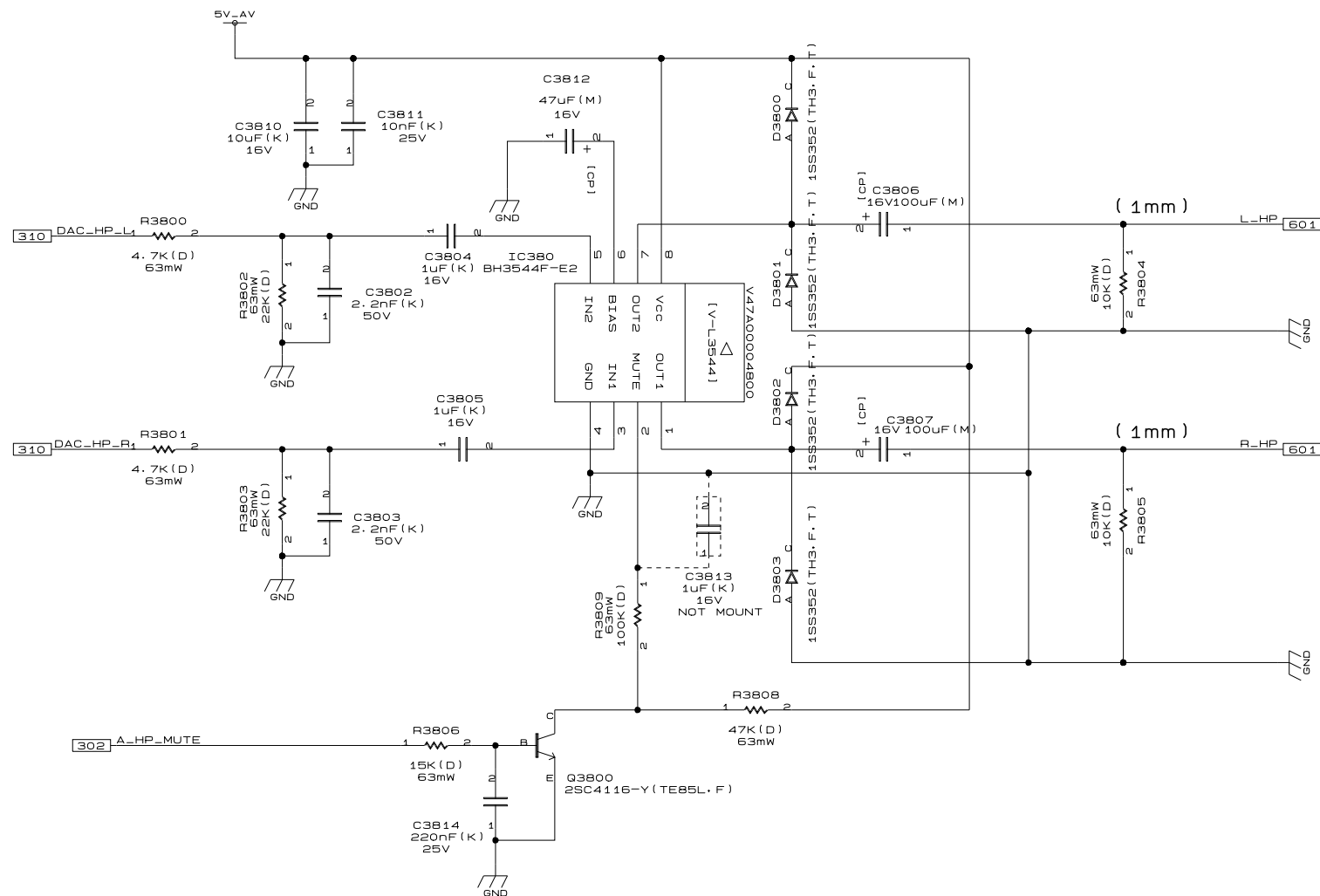
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TOSHIBA CORPORATION



DESIGNED BY
Endo

TITLE
MAIN UNIT

FUNCTION
HeadPhone AMP

SH. NO.
380

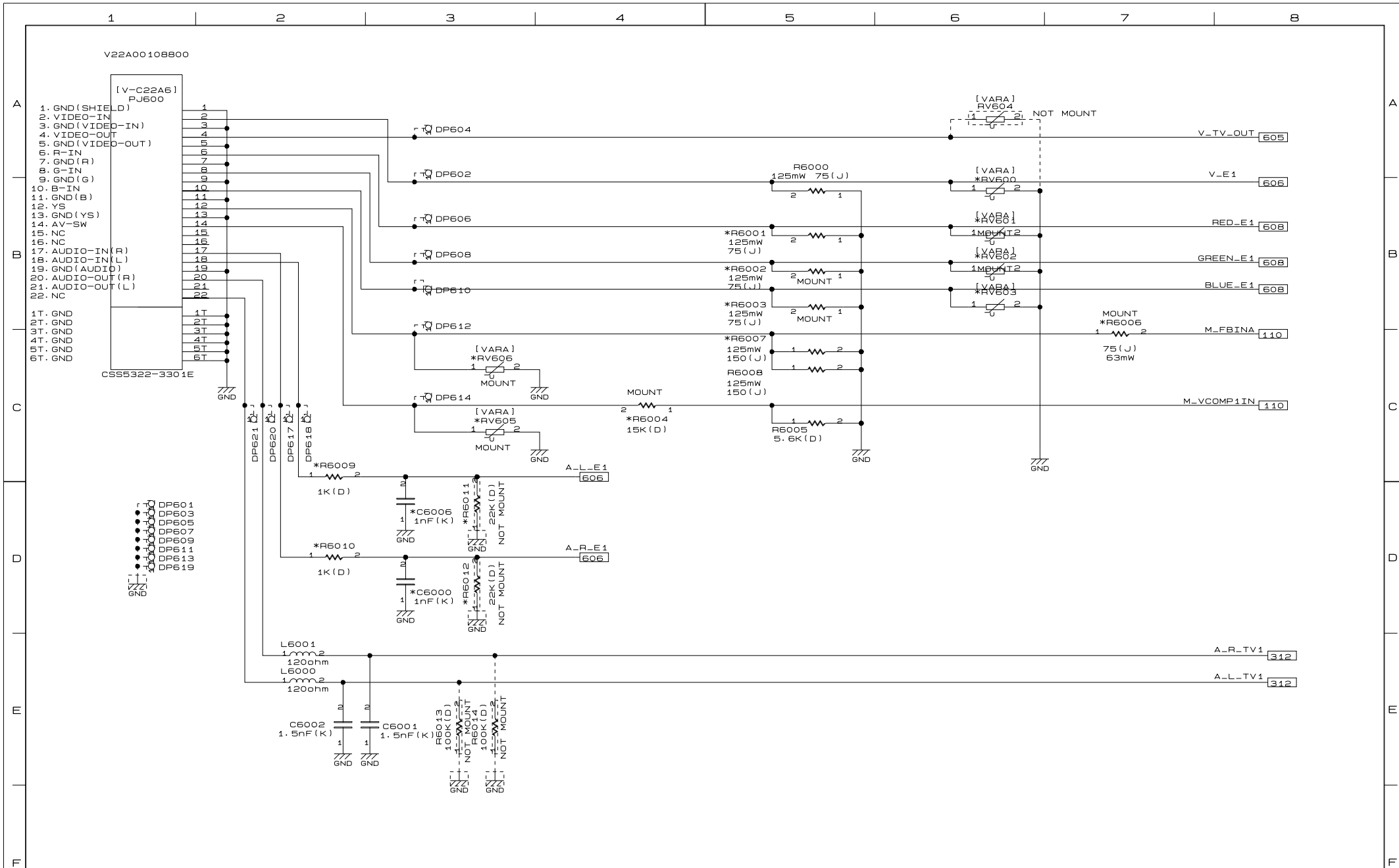
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PE0993

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TOSHIBA CORPORATION



DESIGNED BY

SHIBATA/Endo

TITLE

MAIN UNIT

FUNCTION

EURO SCART

SH. NO.

600

PAGE NO.

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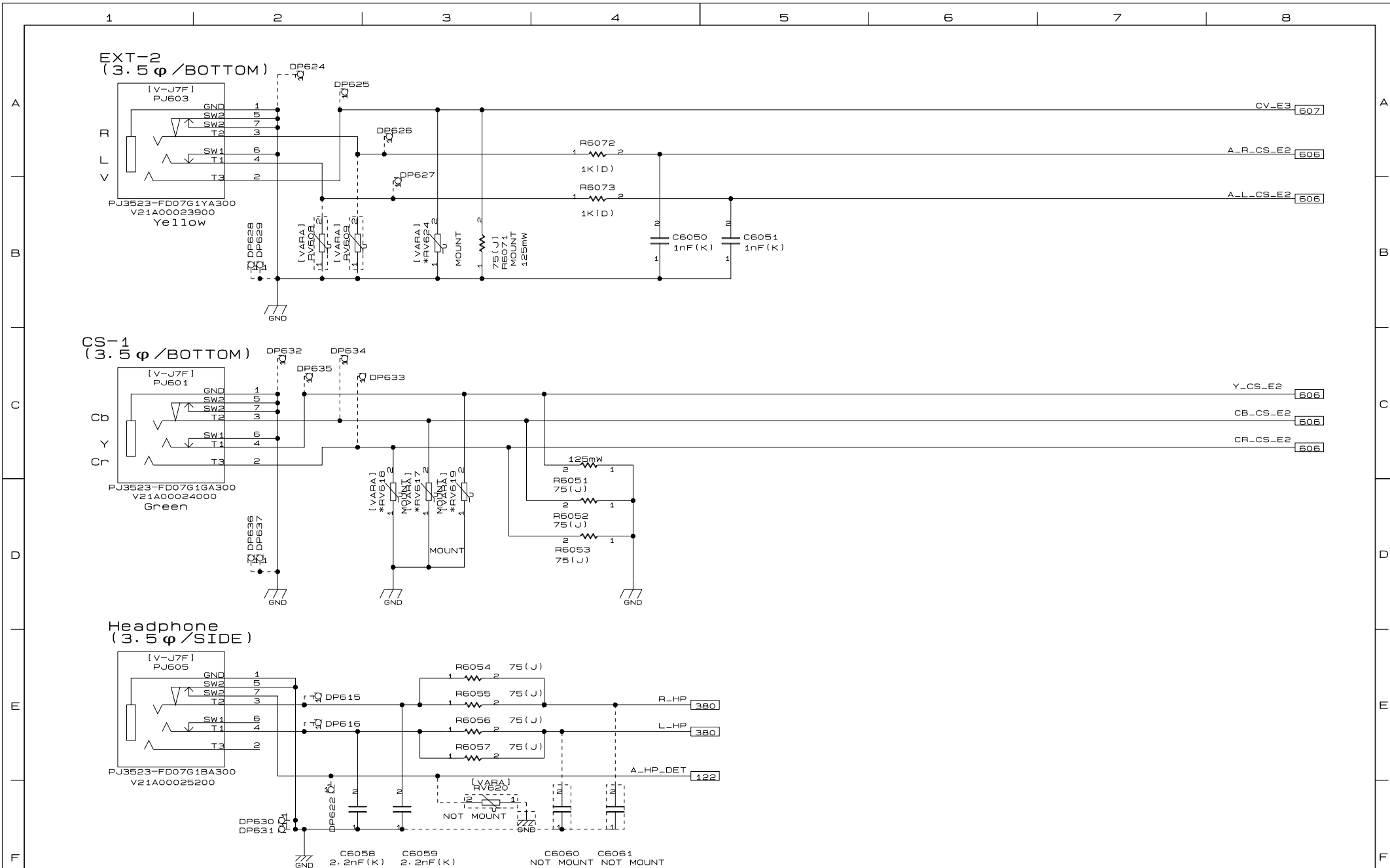
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PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY
SHIBATA/Endo

2011.03.11 09:38

TITLE
MAIN UNIT

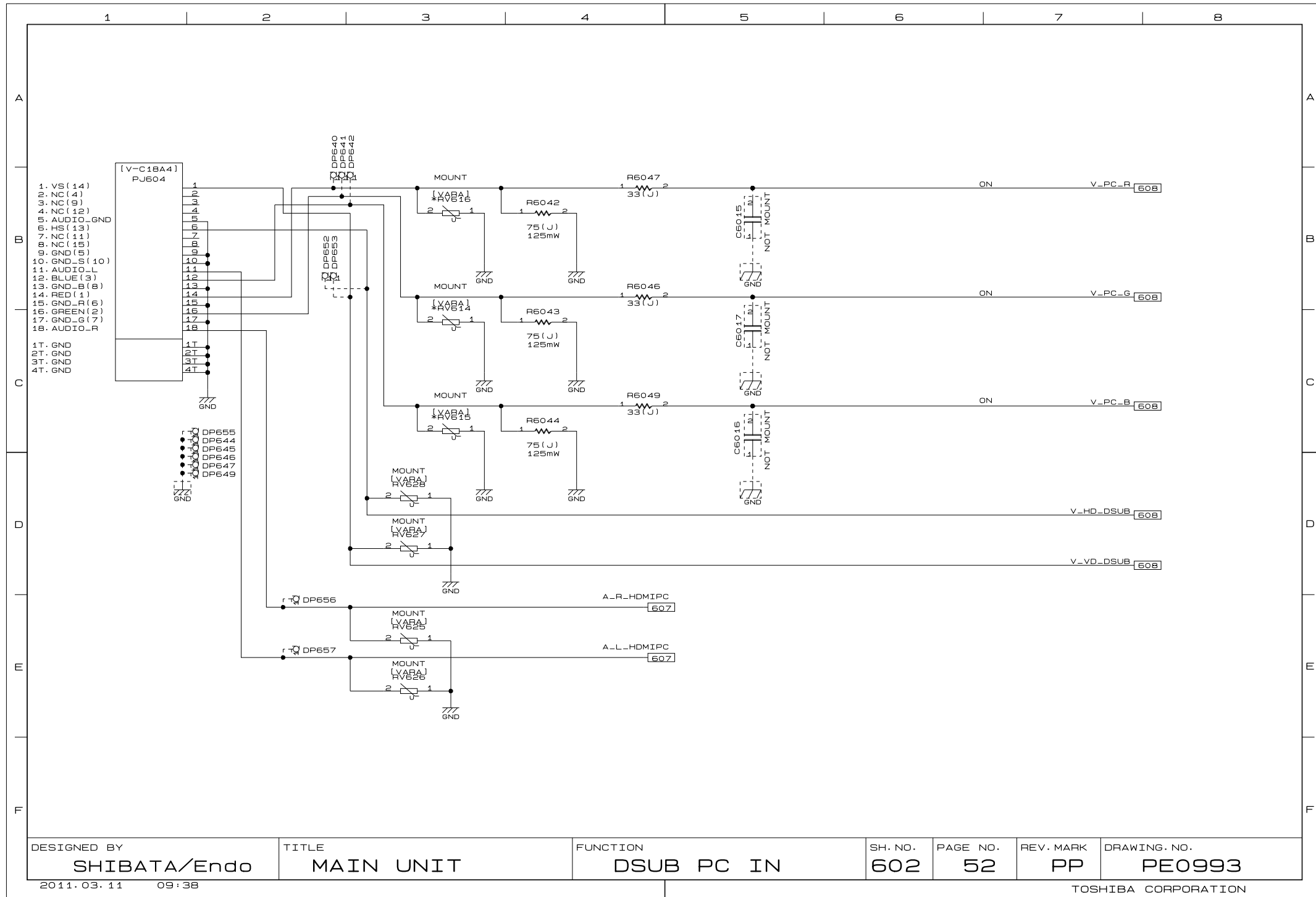
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SH. NO.
601

PAGE NO.
51

REV. MARK
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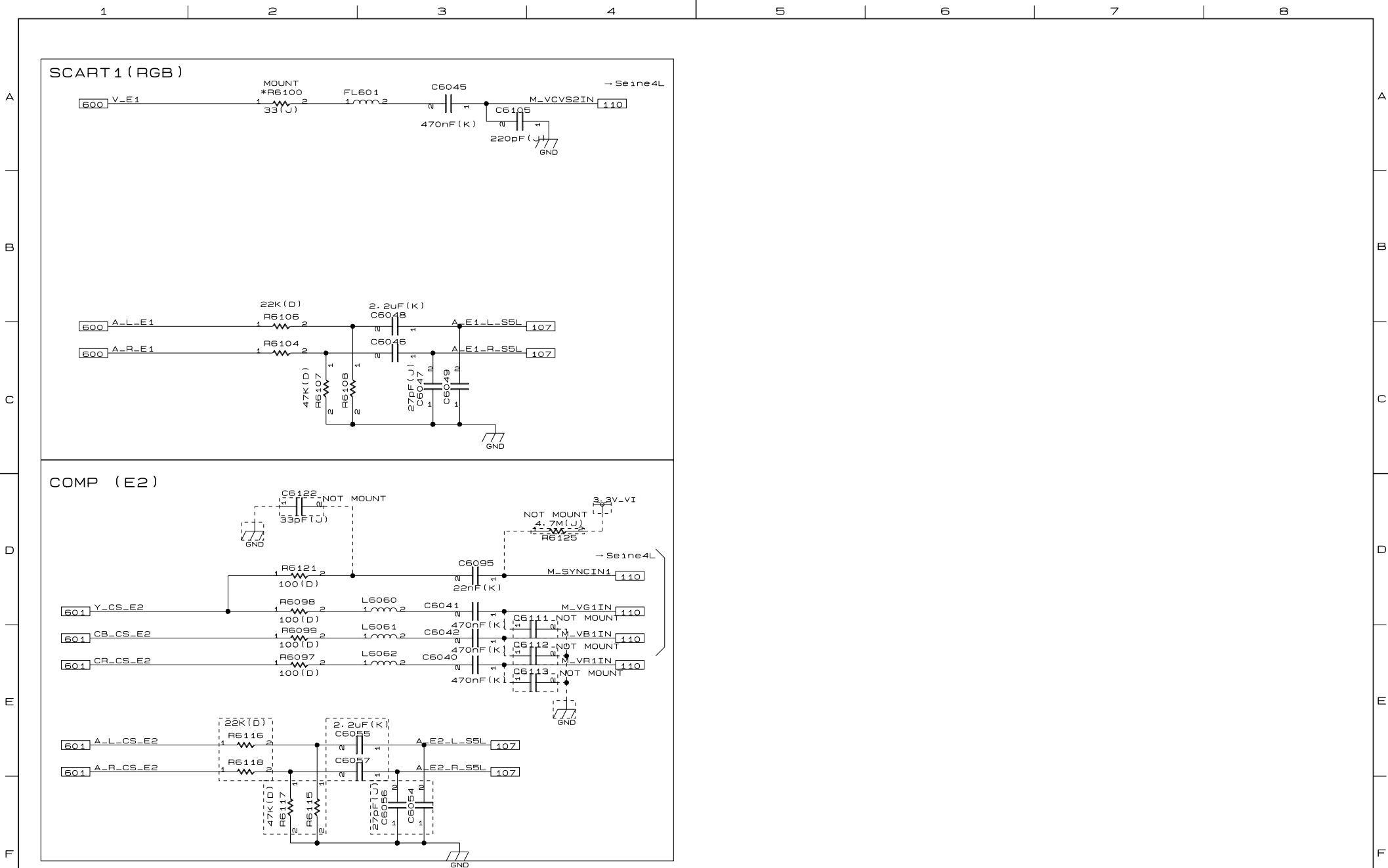
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PE0993



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E								E
F								F

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DESIGNED BY T. SHIMIZU	TITLE MAIN UNIT	FUNCTION BLANK PAGE	SH. NO. 603	PAGE NO. 53	REV. MARK PP	DRAWING. NO. PE0993
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DESIGNED BY

SHIBATA/Endo

TITLE

MAIN UNIT

FUNCTION

AV INPUT 1

SH. NO.

606

PAGE NO.

55

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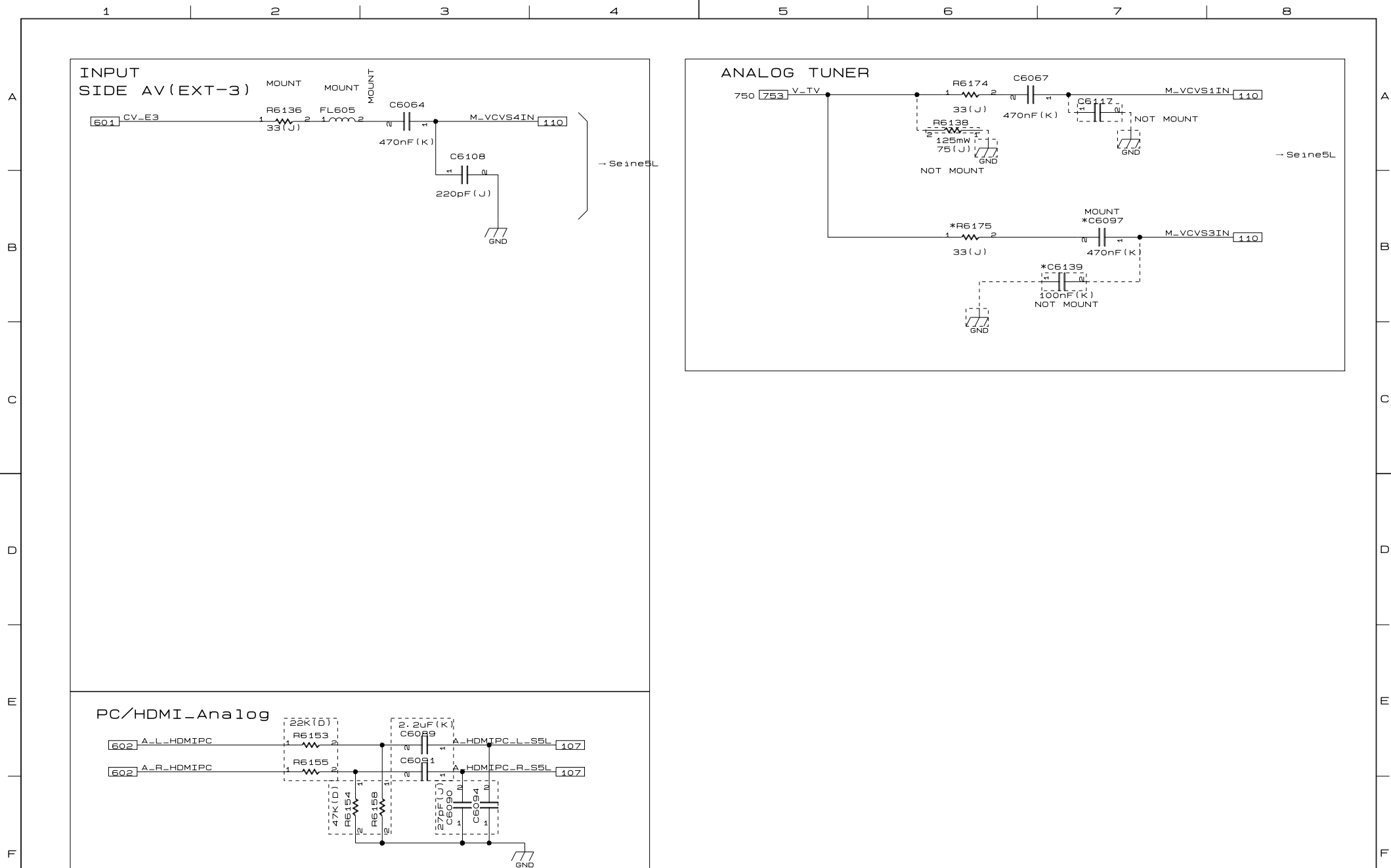
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DRAWING. NO.

PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

SHIBATA/Endo

TITLE

MAIN UNIT

FUNCTION

AV INPUT2

SH. NO.

607

PAGE NO.

56

REV. MARK

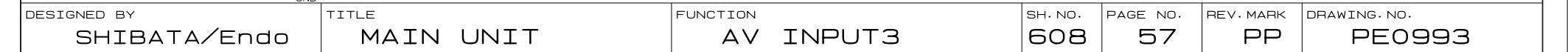
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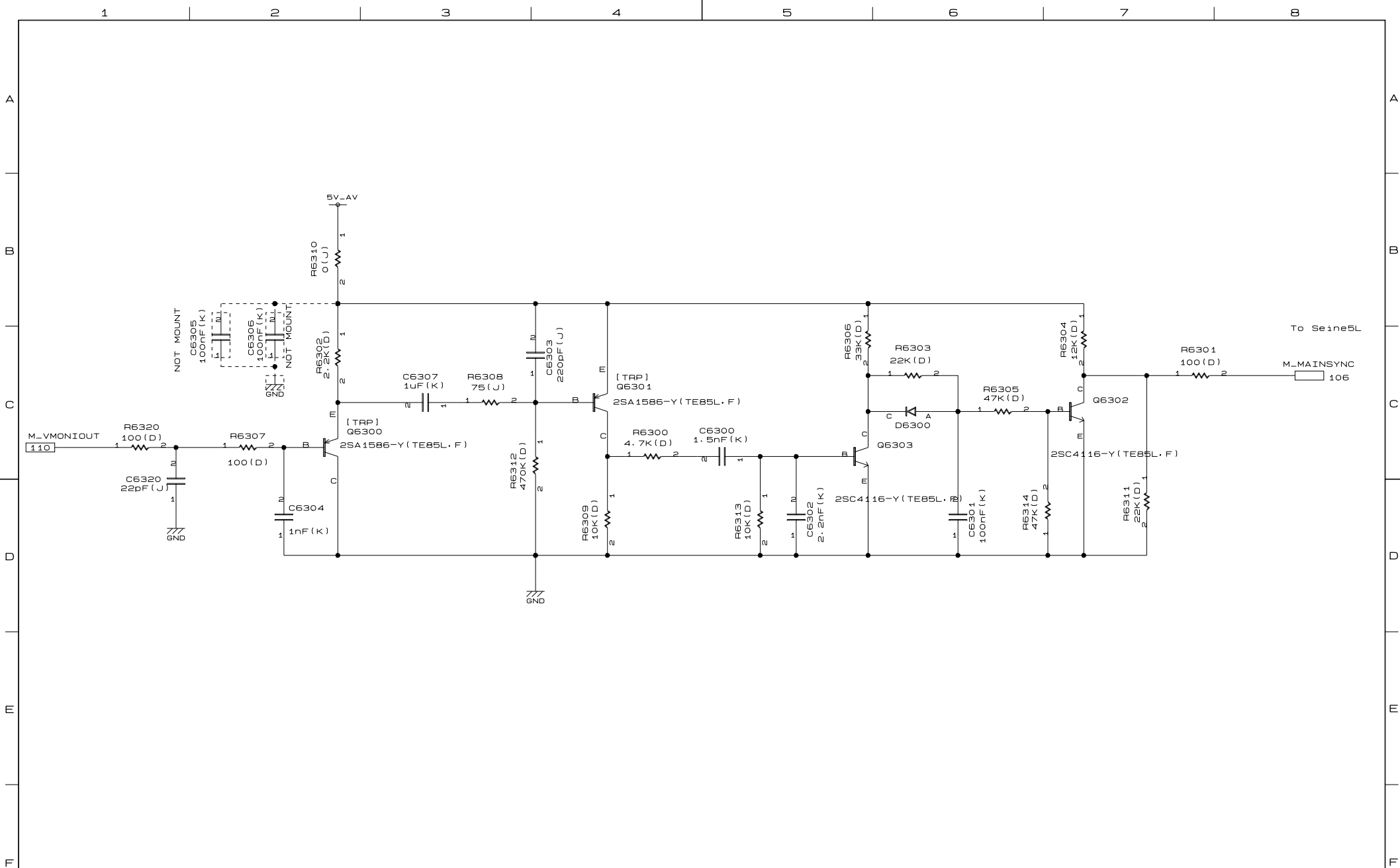
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2011.03.11 09:38

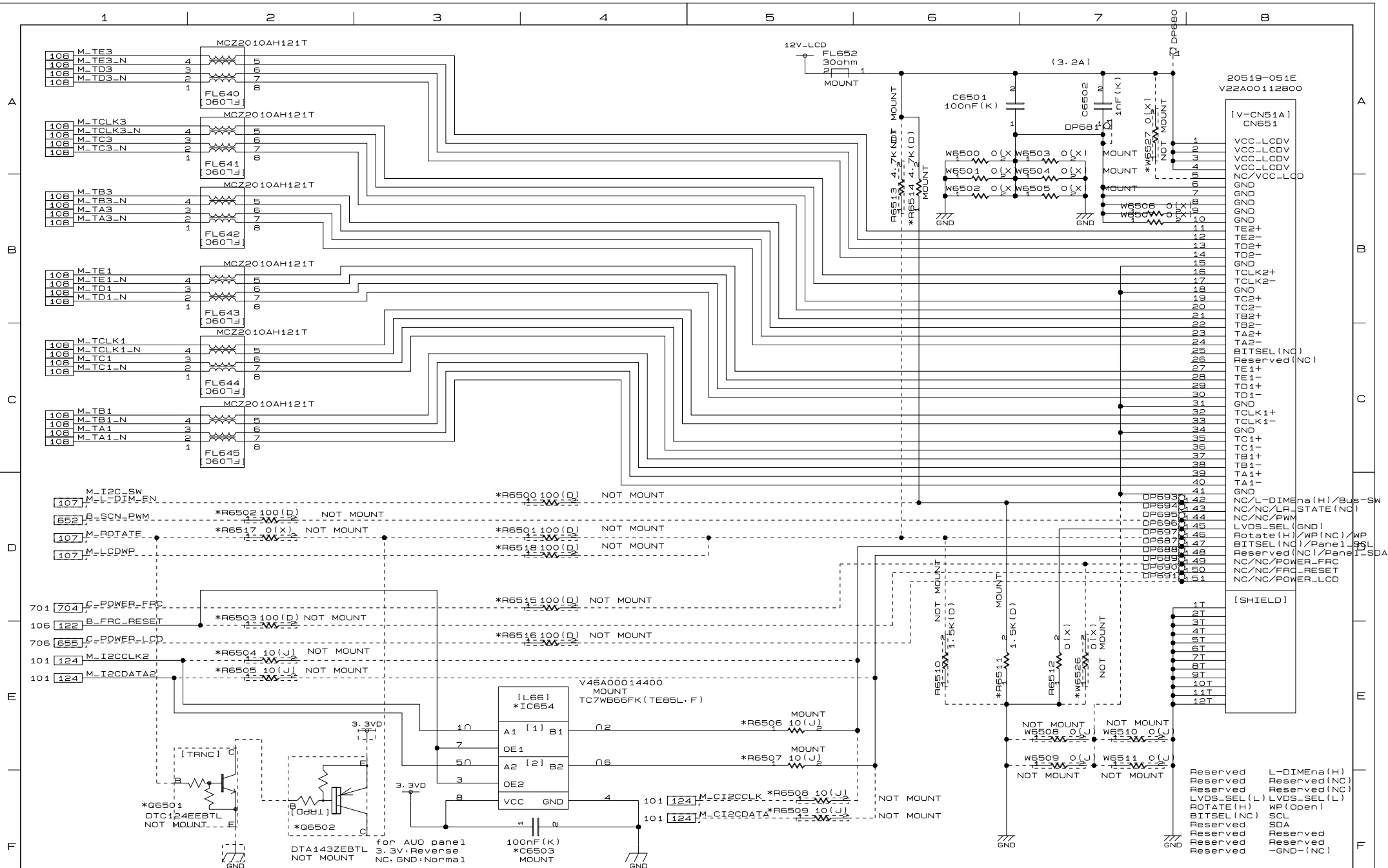
TOSHIBA CORPORATION



DESIGNED BY
INOSETITLE
MAIN UNITFUNCTION
SYNC DETECTSH. NO.
630PAGE NO.
58REV. MARK
PPDRAWING. NO.
PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

KOMIYA

TITLE

MAIN UNIT

FUNCTION

PANEL I/F (LVDS OUT)

SH. NO.

650

PAGE NO.

59

REV. MARK

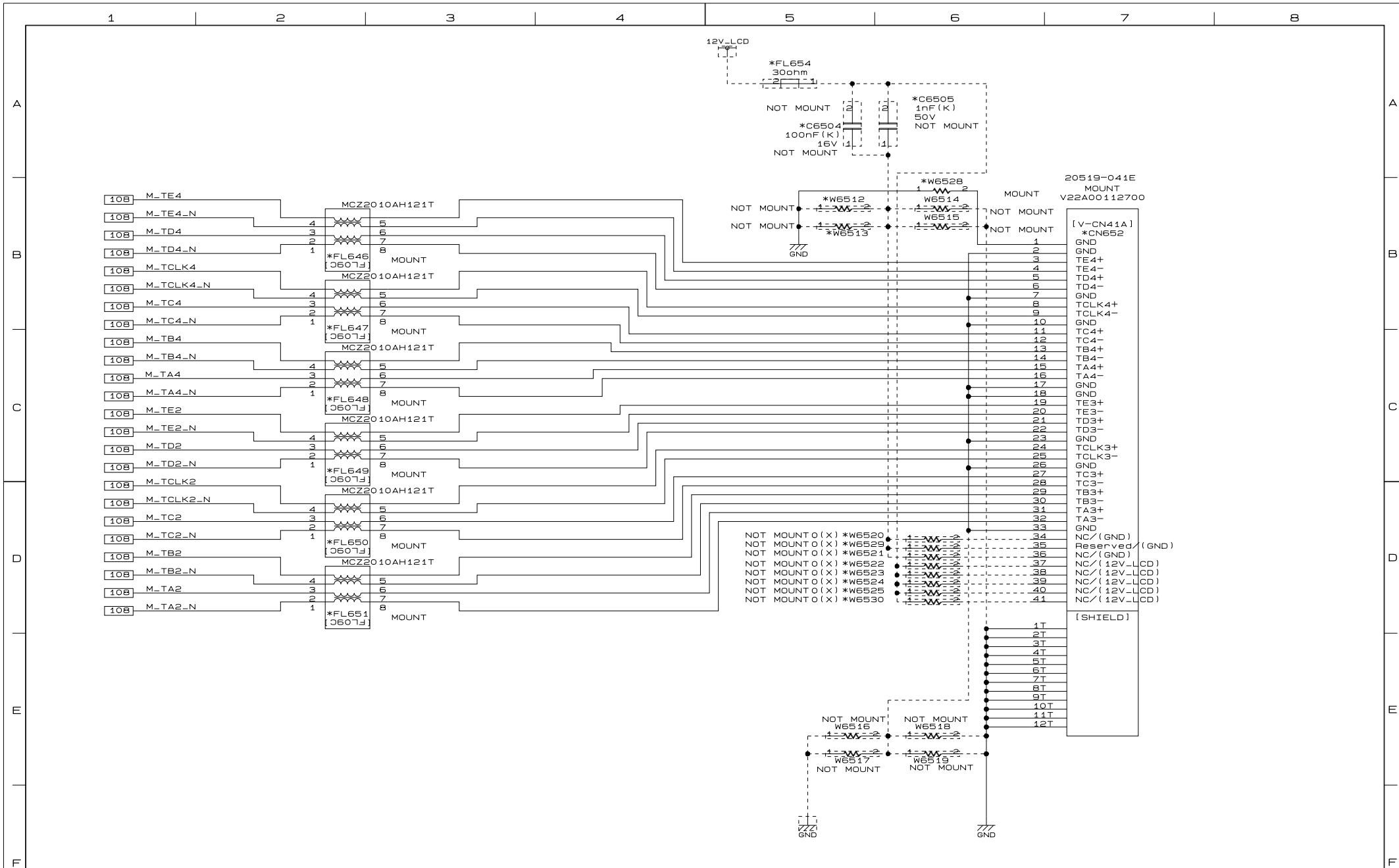
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DRAWING. NO.

PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY 2011/02/10

KOMIYA

TITLE

MAIN UNIT

FUNCTION

PANEL I/F(LVDS OUT)

SH. NO.

651

PAGE NO.

60

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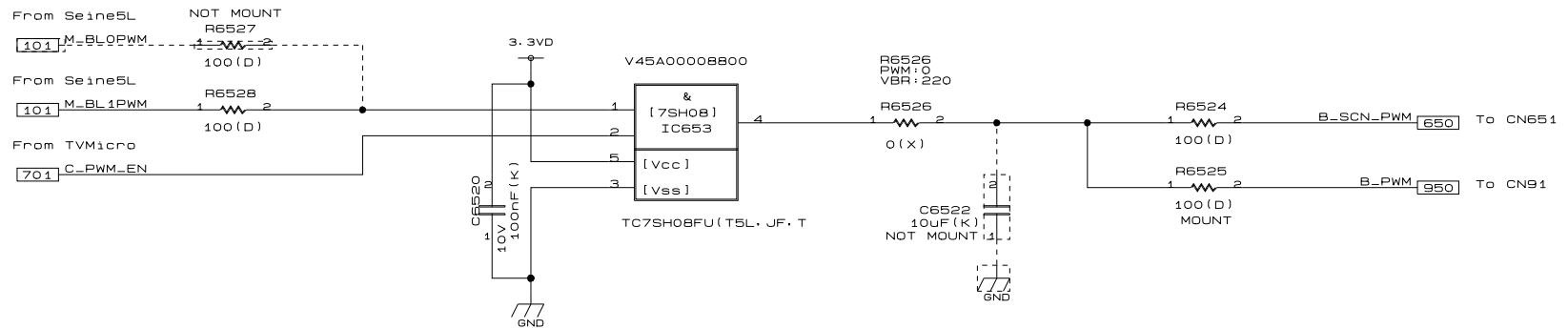
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

KOMIYA

TITLE

MAIN UNIT

FUNCTION

PANEL I/F Dimmer Ctrl

SH. NO.

652

PAGE NO.

61

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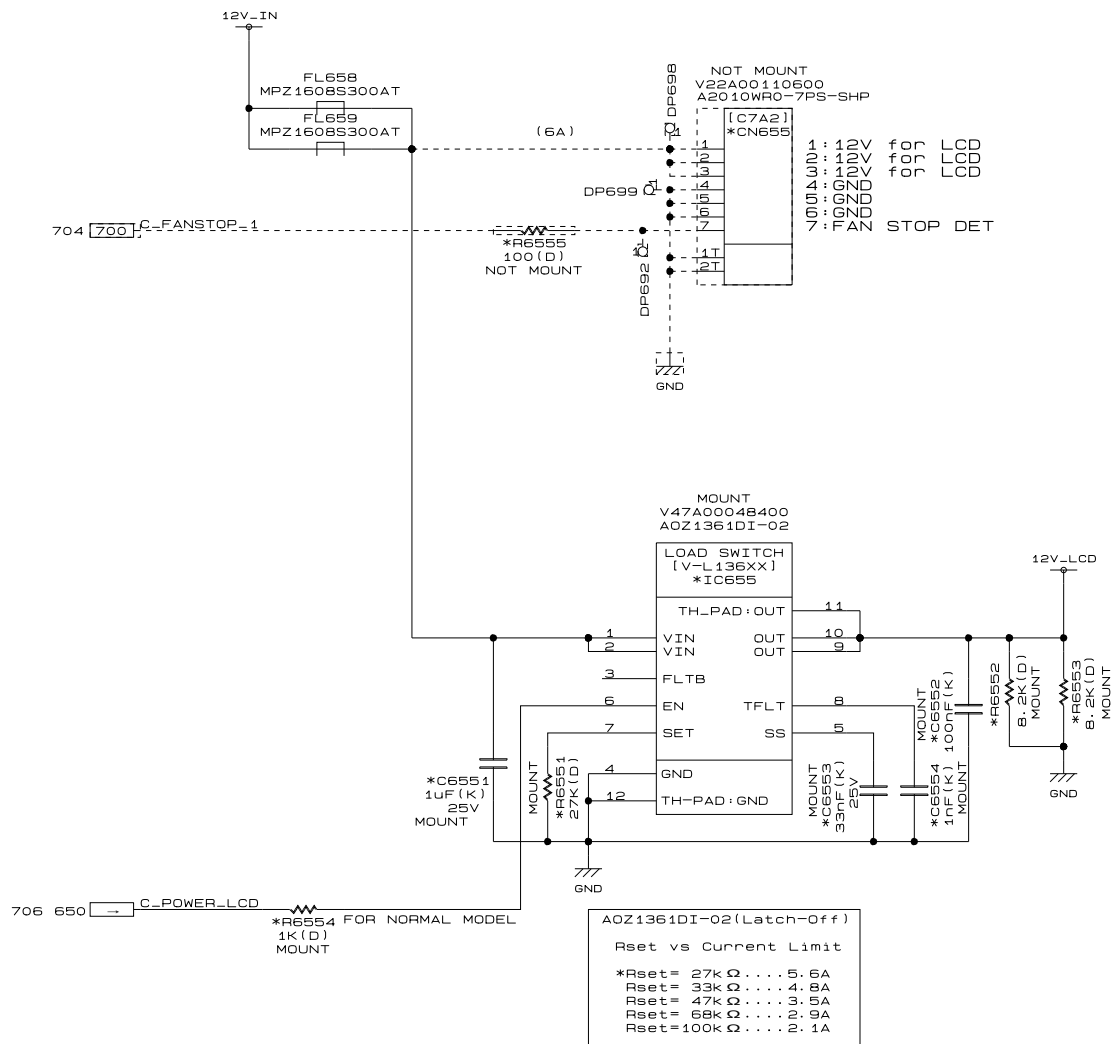
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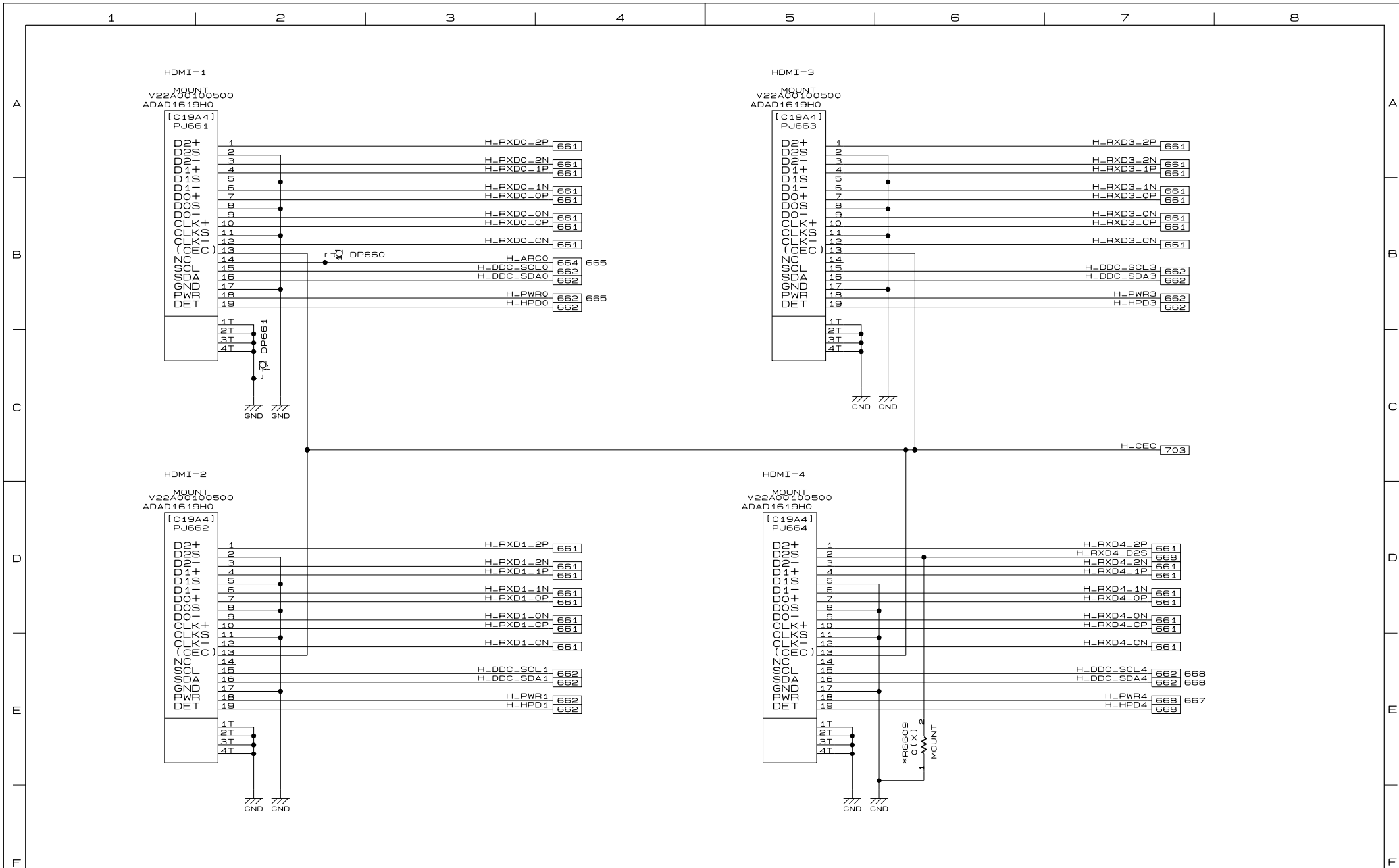
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2011.03.11 09:38

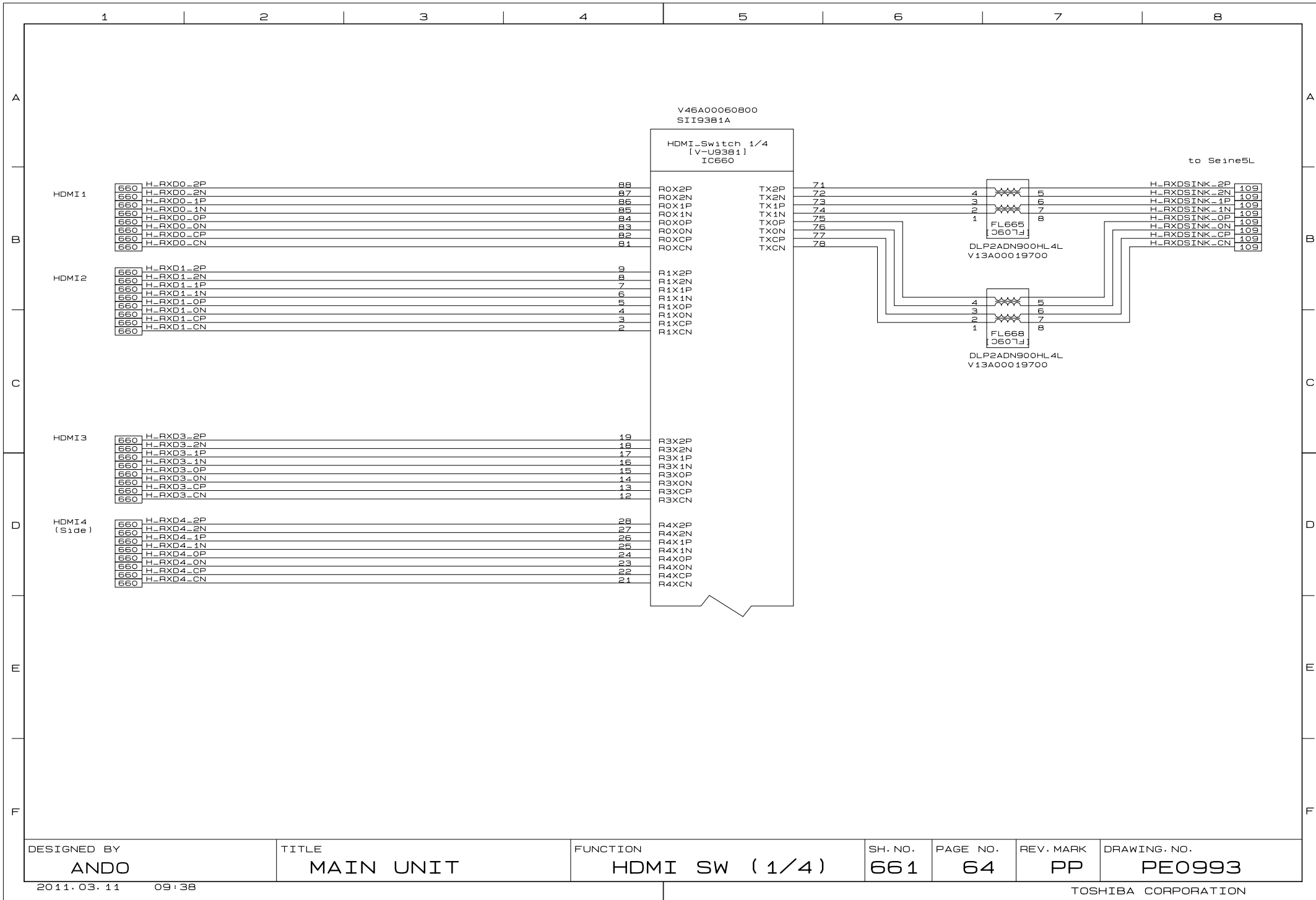
TOSHIBA CORPORATION



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HDMI ConnectorSH. NO.
660PAGE NO.
63REV. MARK
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PE0993

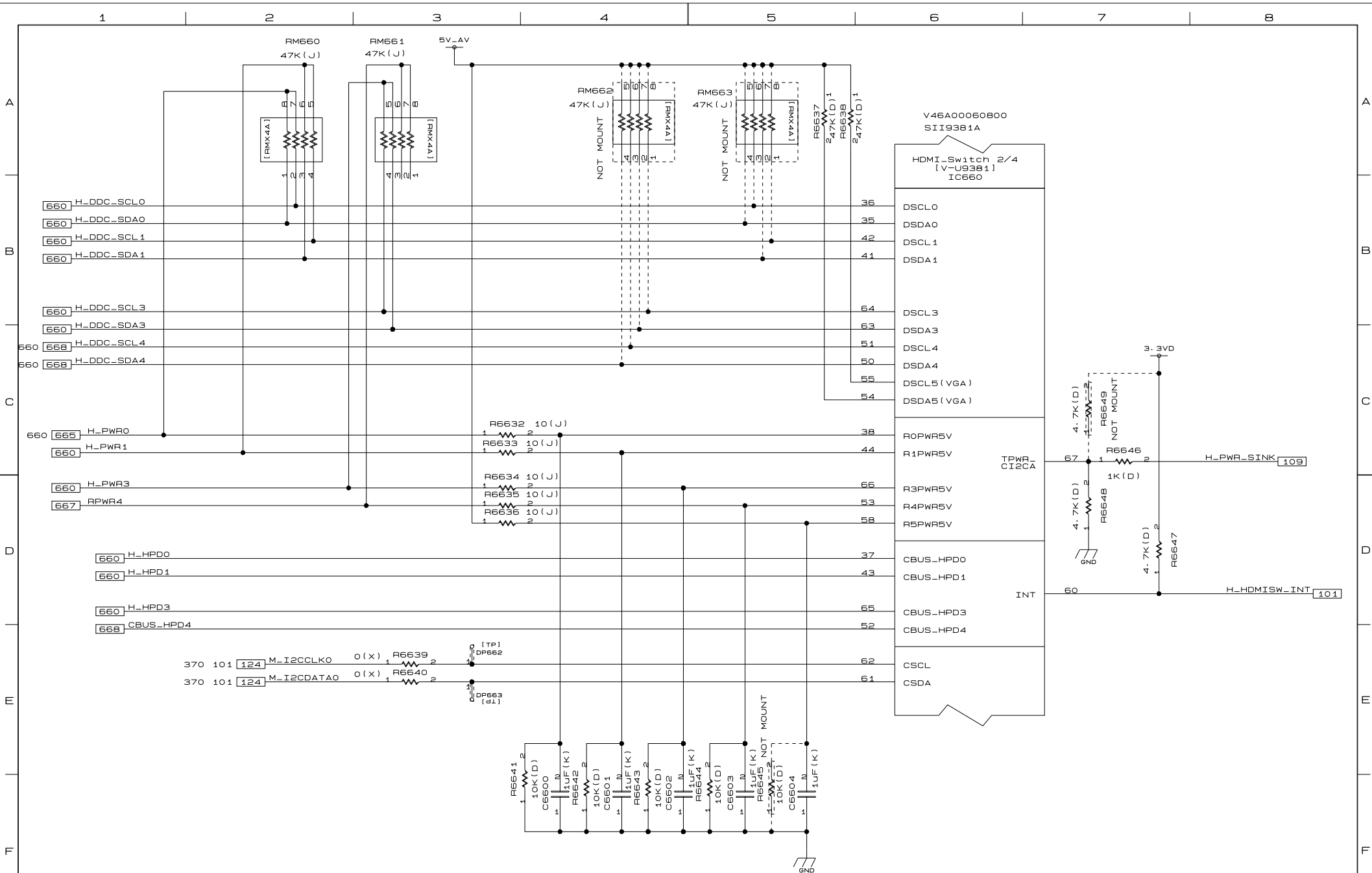
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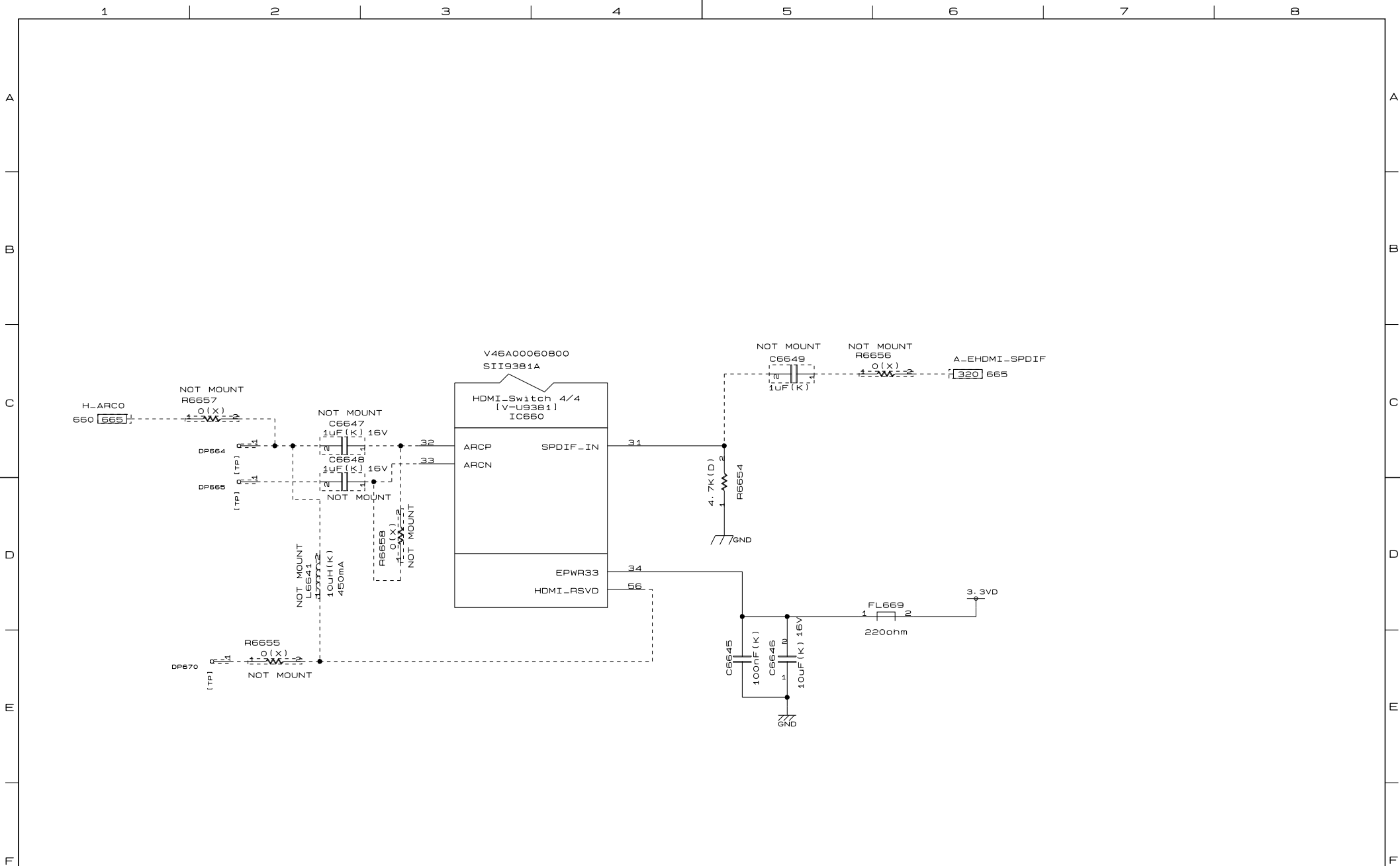
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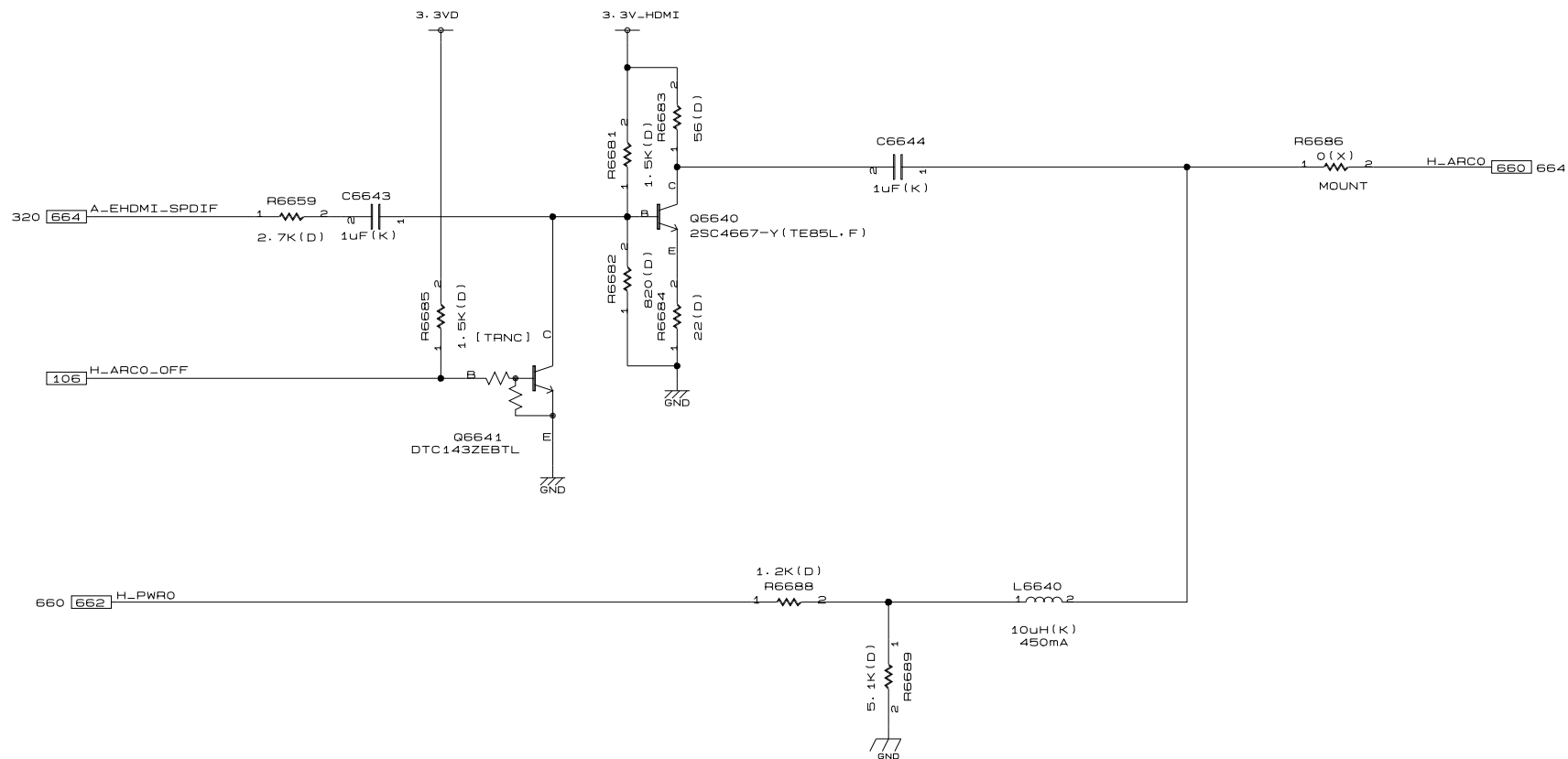
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TOSHIBA CORPORATION

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MAIN UNITFUNCTION
HDMI SW(4/4)SH. NO.
664PAGE NO.
67REV. MARK
PPDRAWING. NO.
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY
ANDO

TITLE
MAIN UNIT

FUNCTION
HDMI ARC

SH. NO.
665

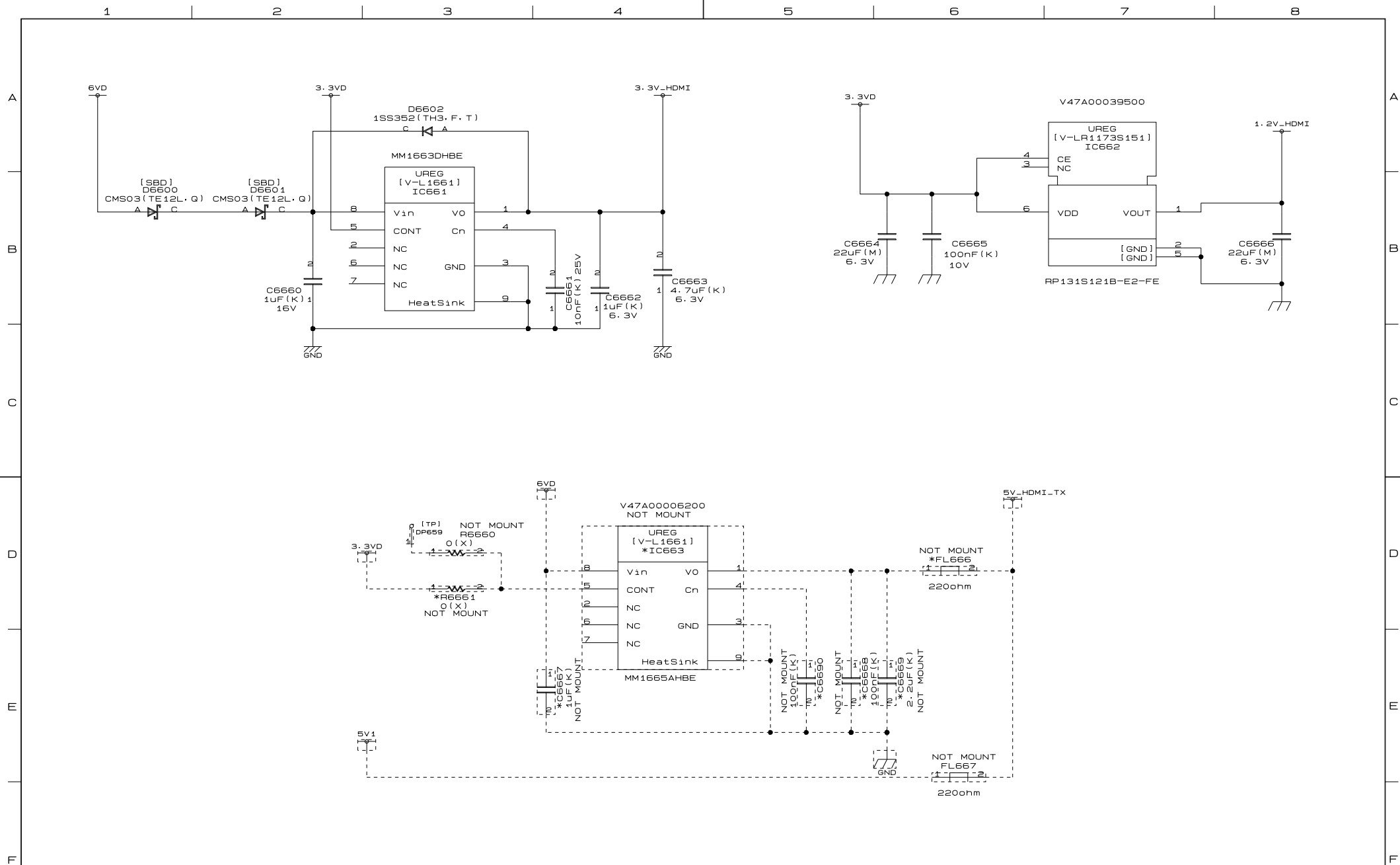
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PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY 2011/03/10

ANDO

TITLE

MAIN UNIT

FUNCTION

HDMI POWER

SH. NO.

666

PAGE NO.

69

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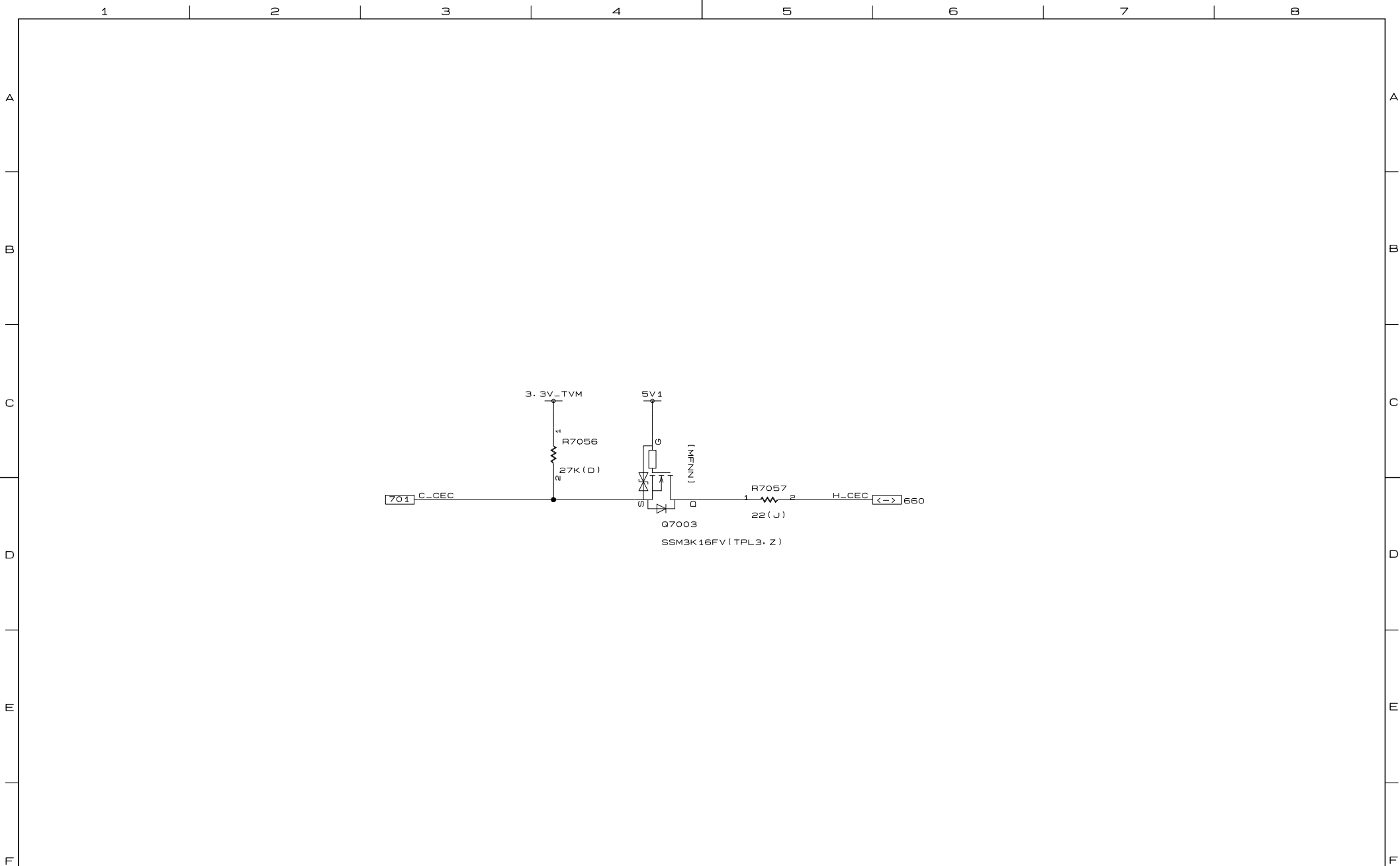
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2011.03.11 09:38

TOSHIBA CORPORATION





DESIGNED BY

KONTANI

TITLE

MAIN UNIT

FUNCTION

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SH. NO.

703

PAGE NO.

75

REV. MARK

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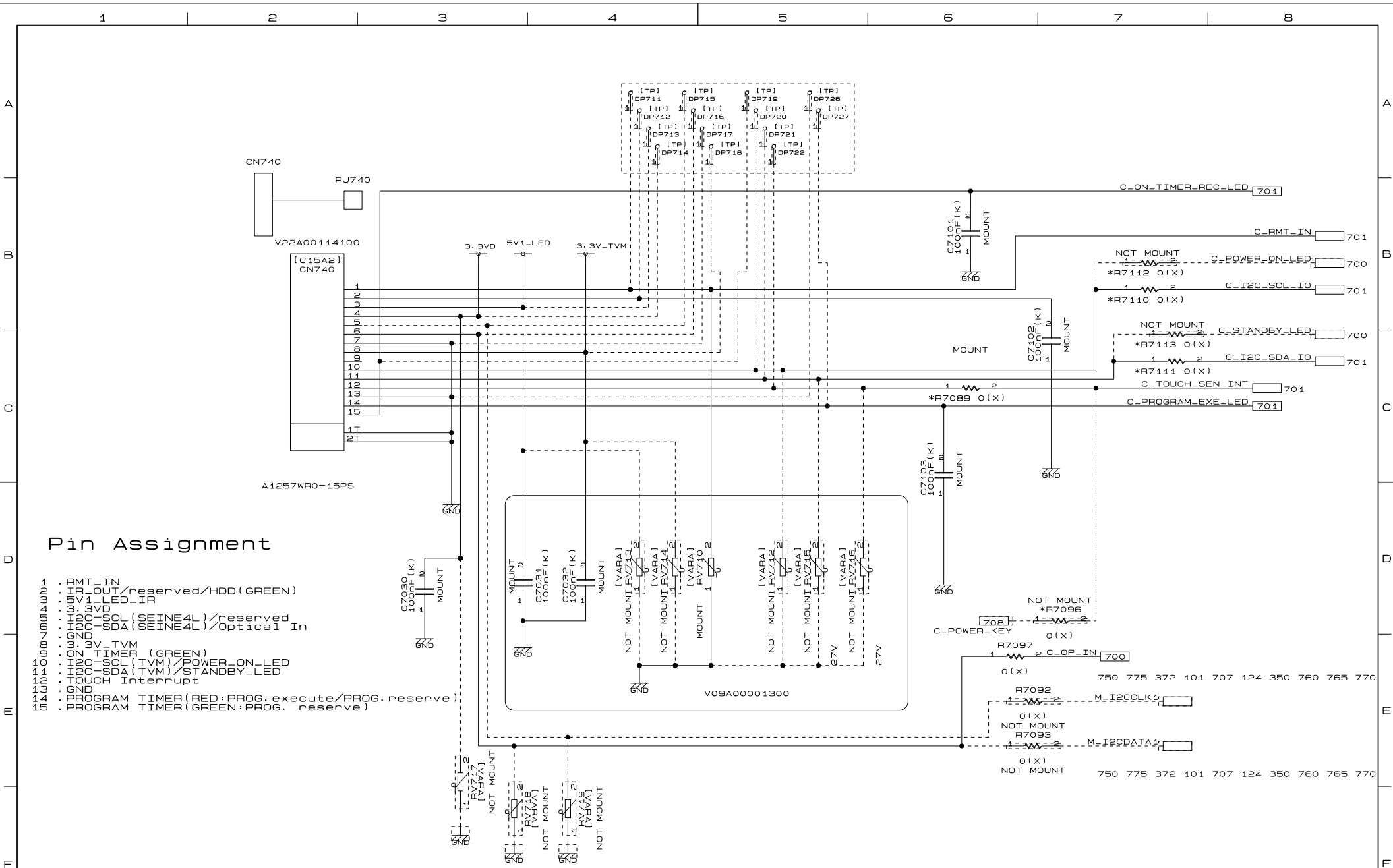
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2011.03.11 09:38

TOSHIBA CORPORATION





DESIGNED BY

KONTANI

TITLE

MAIN UNIT

FUNCTION

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SH. NO.

705

PAGE NO.

77

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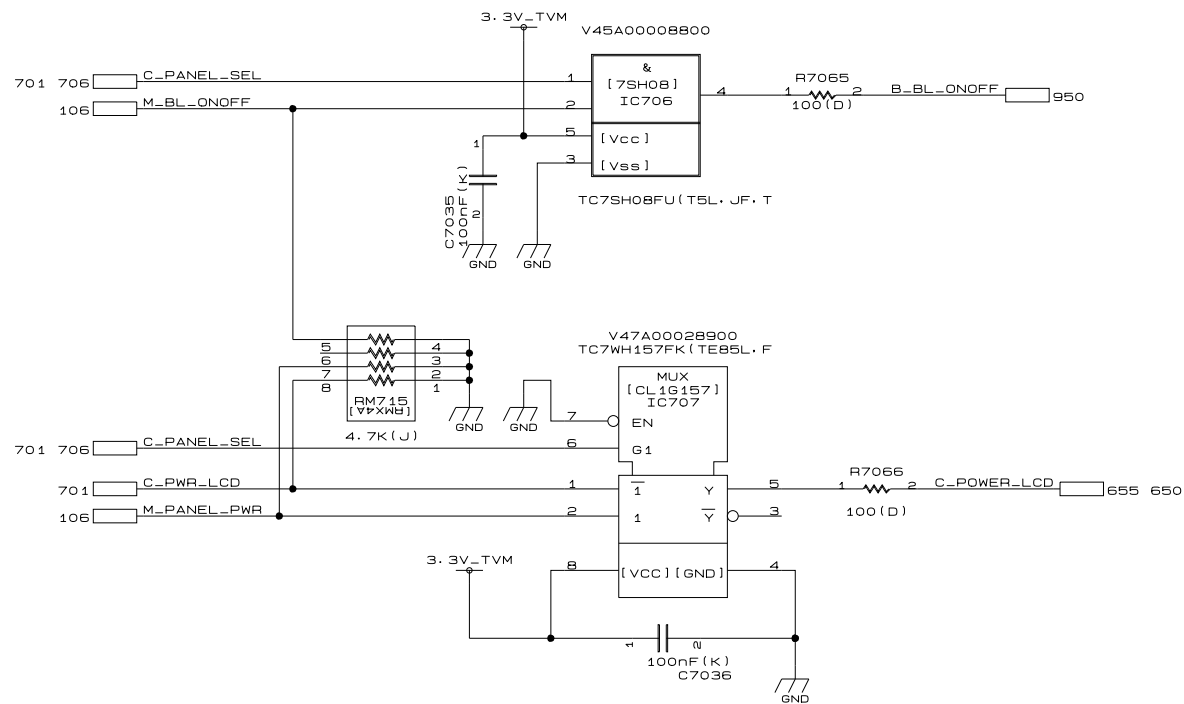
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

KONTANI

TITLE

MAIN UNIT

FUNCTION

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SH. NO.

706

PAGE NO.

78

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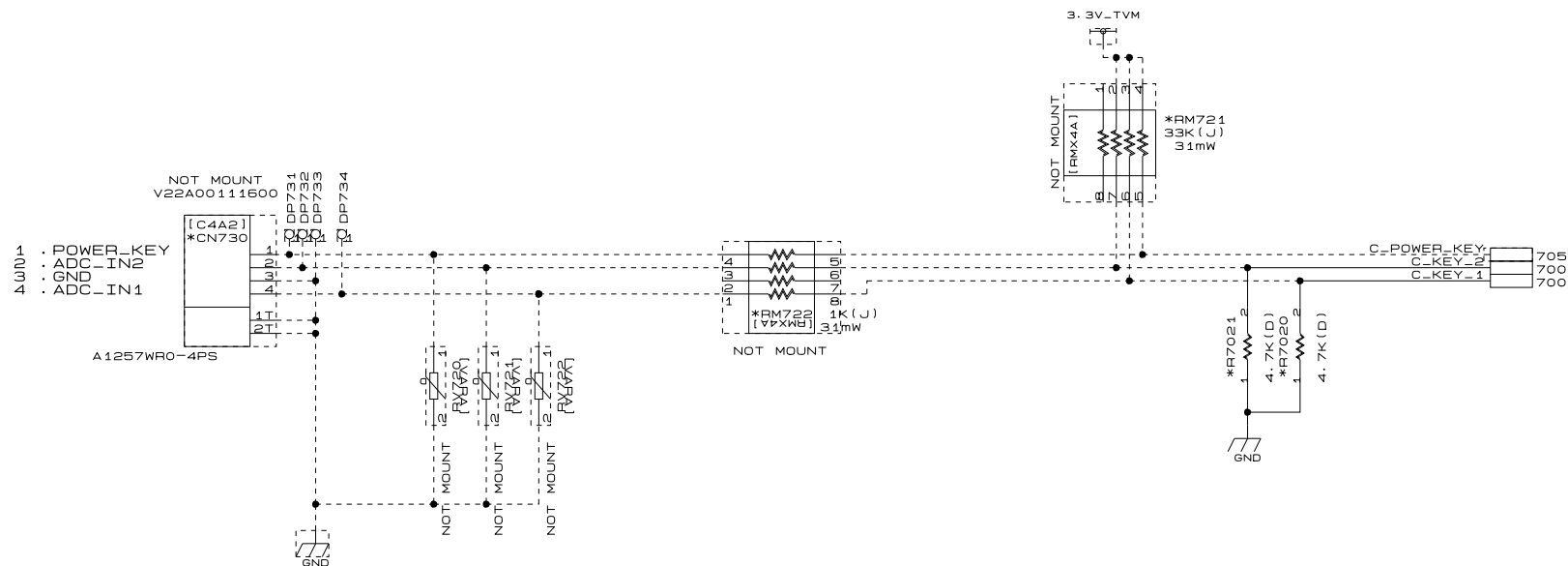
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY

KONTANI

TITLE

MAIN UNIT

FUNCTION

TVM (KEY CONNECTOR)

SH. NO.

708

PAGE NO.

80

REV. MARK

PP

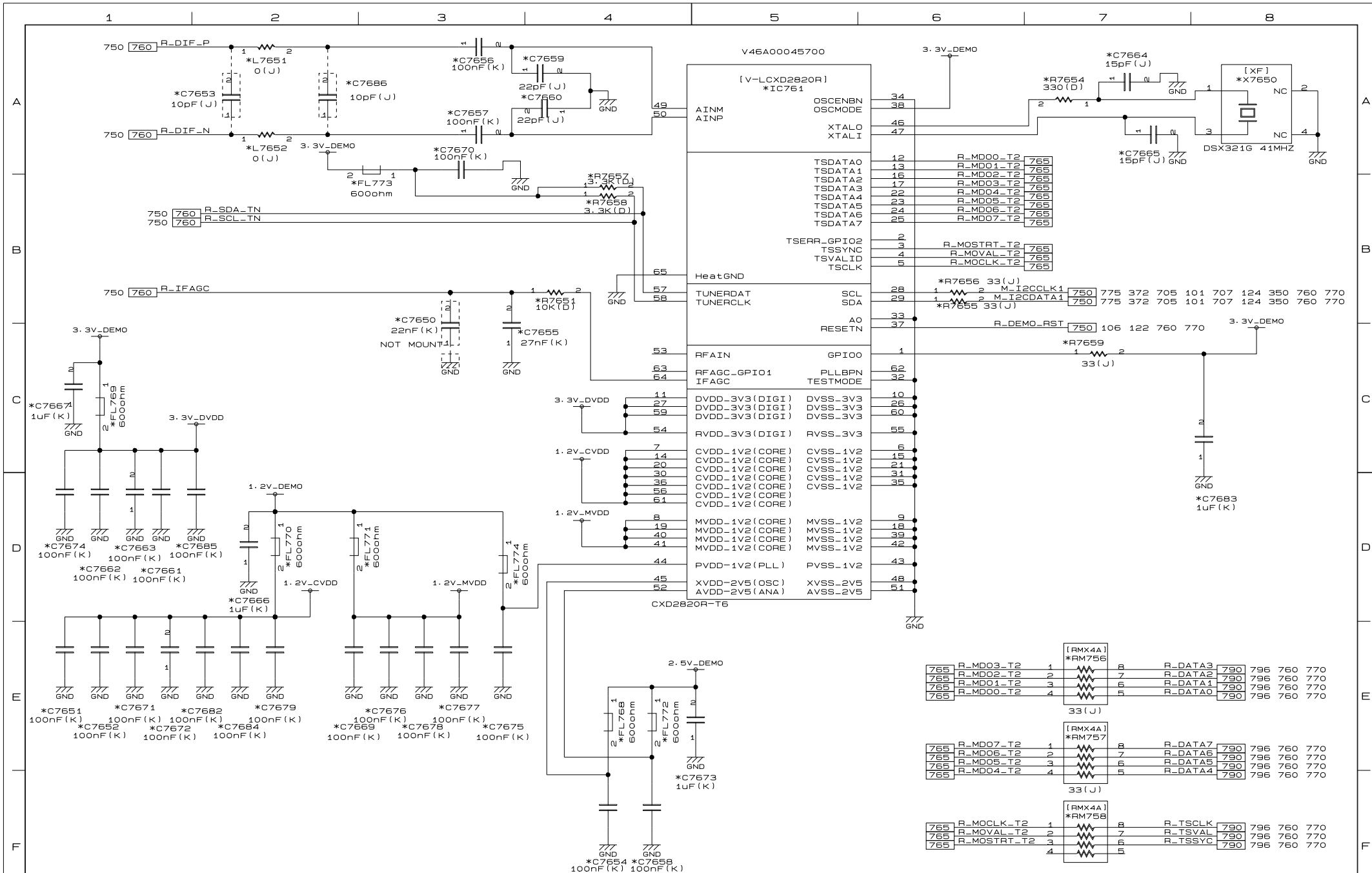
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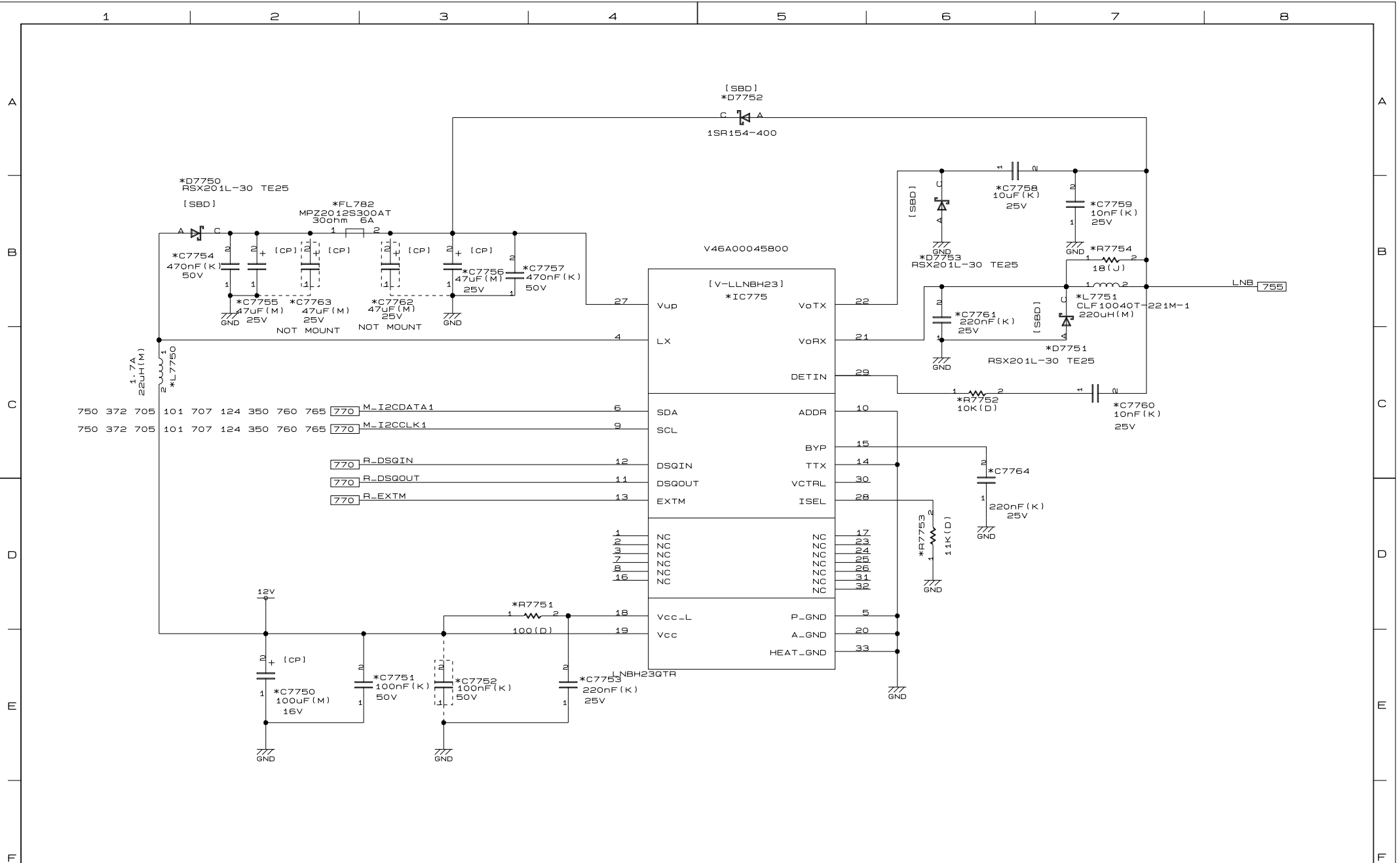
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2011.03.11 09:38

TOSHIBA CORPORATION







DESIGNED BY

R. IZUMI

TITLE

MAIN UNIT

FUNCTION

DiSeqC. LNB POWER

SH. NO.

775

PAGE NO.

87

REV. MARK

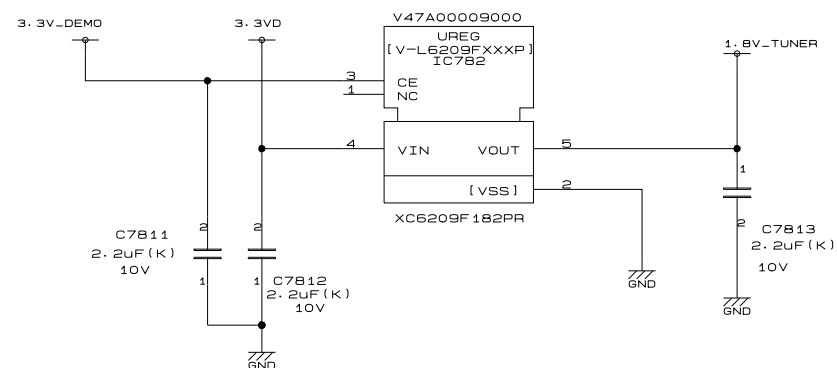
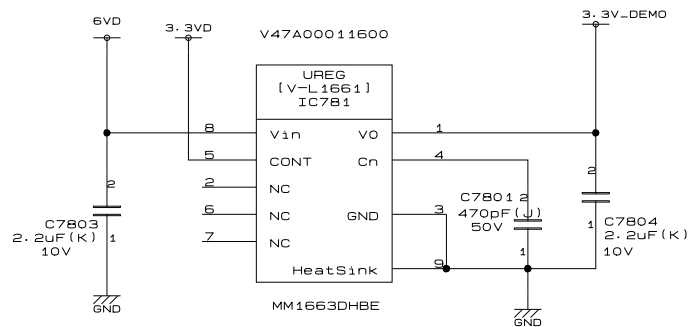
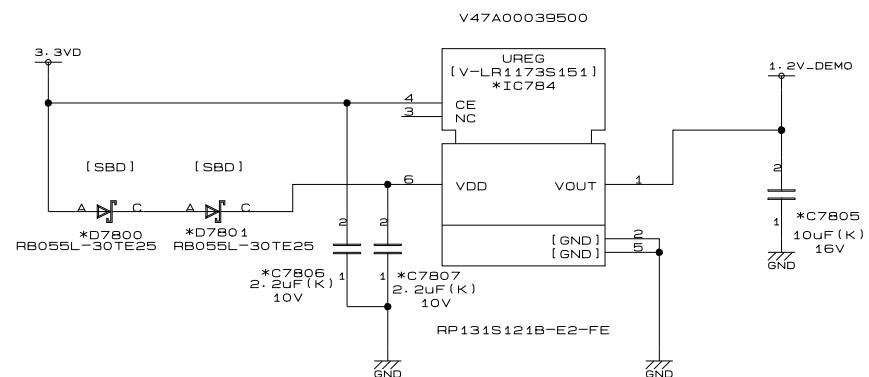
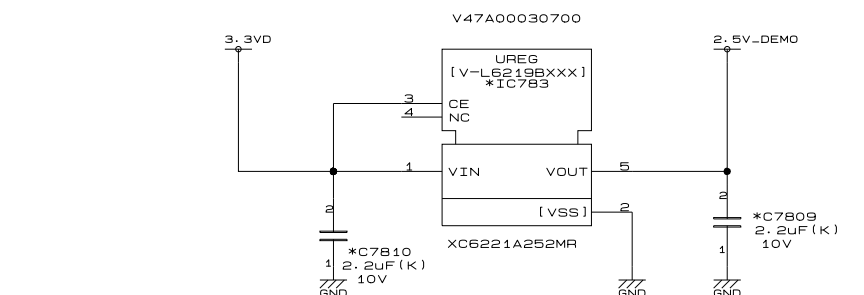
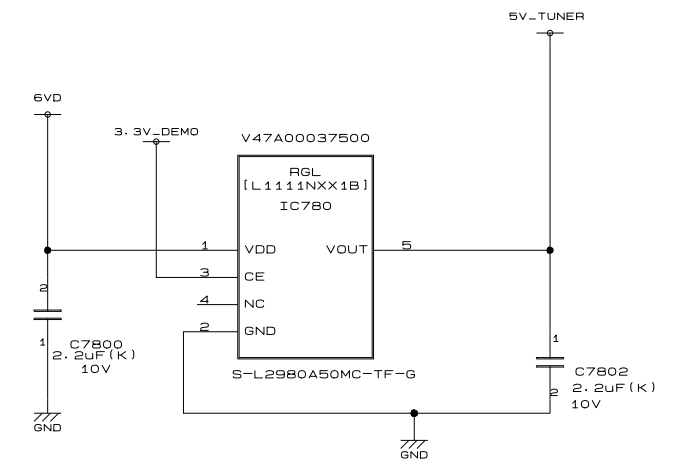
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TOSHIBA CORPORATION



DESIGNED BY

R. IZUMI

TITLE

MAIN UNIT

FUNCTION

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SH. NO.

780

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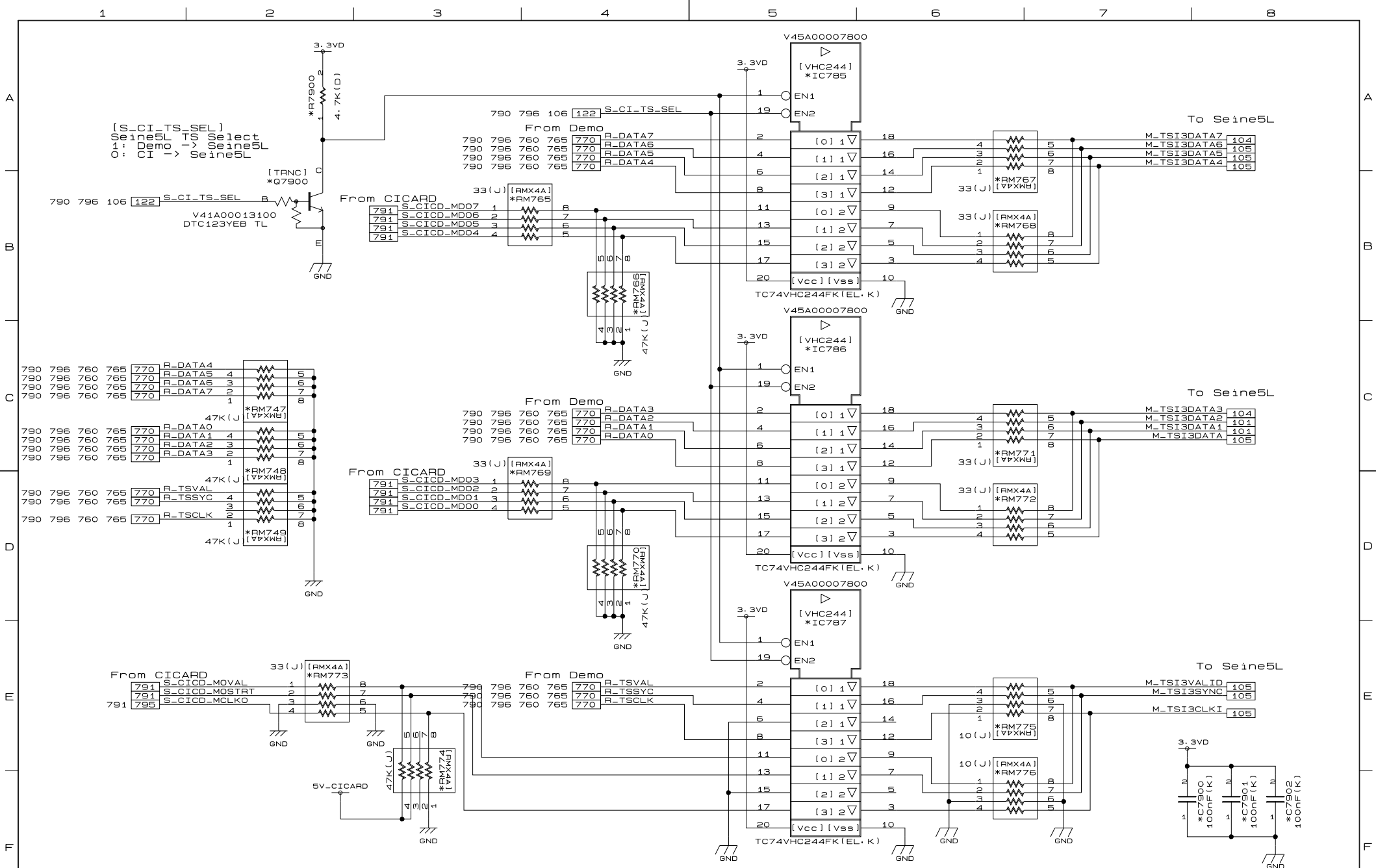
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY
T. SHIMIZU

TITLE
MAIN UNIT

FUNCTION
CI TS_SELECTOR

SH. NO.
790

PAGE NO.
89

REV. MARK
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DRAWING. NO.
PE0993

2011.03.11 09:38

TOSHIBA CORPORATION

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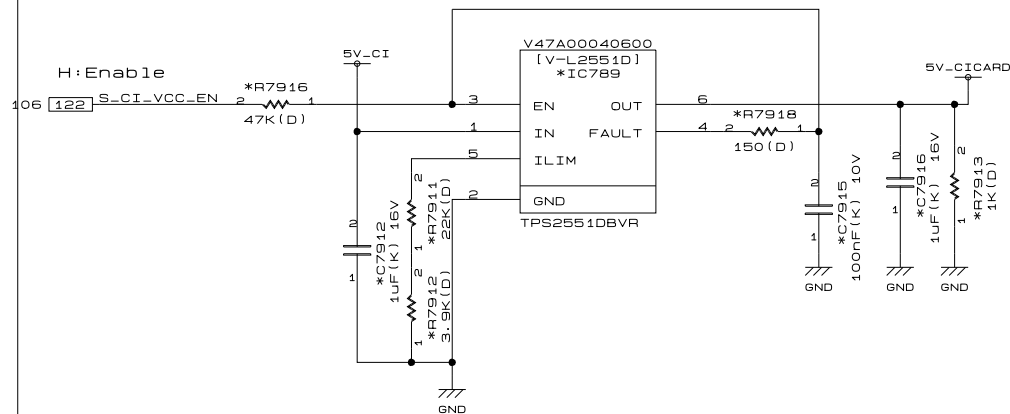
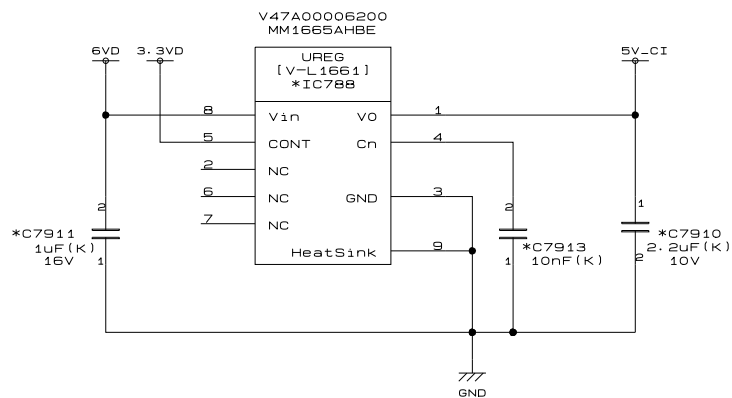
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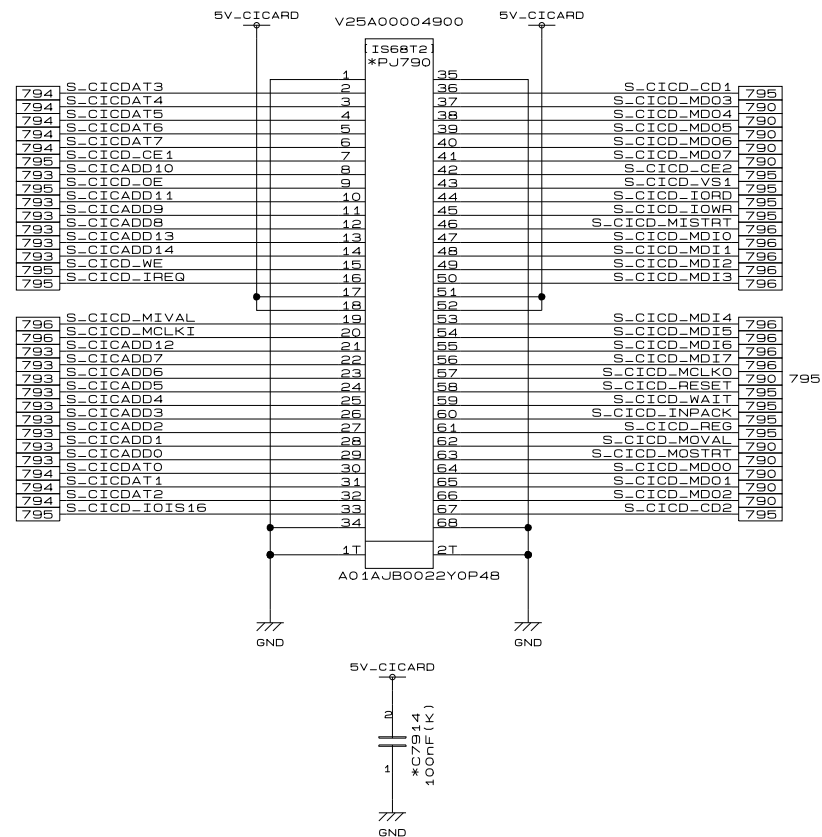
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CI POWER

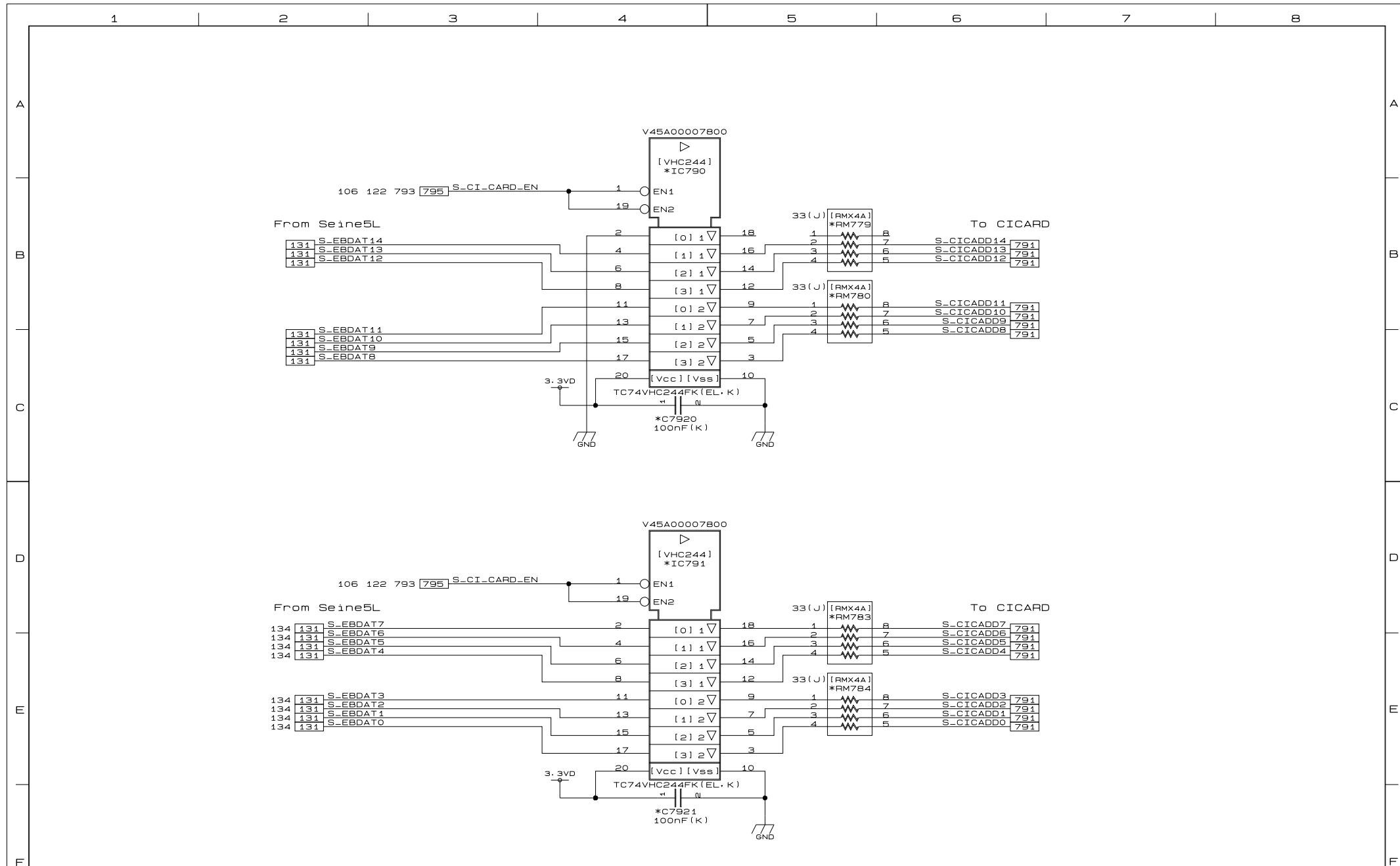


CI CONNECTOR

DESIGNED BY
T. SHIMIZUTITLE
MAIN UNITFUNCTION
CI POWER/CONNECTORSH. NO.
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90REV. MARK
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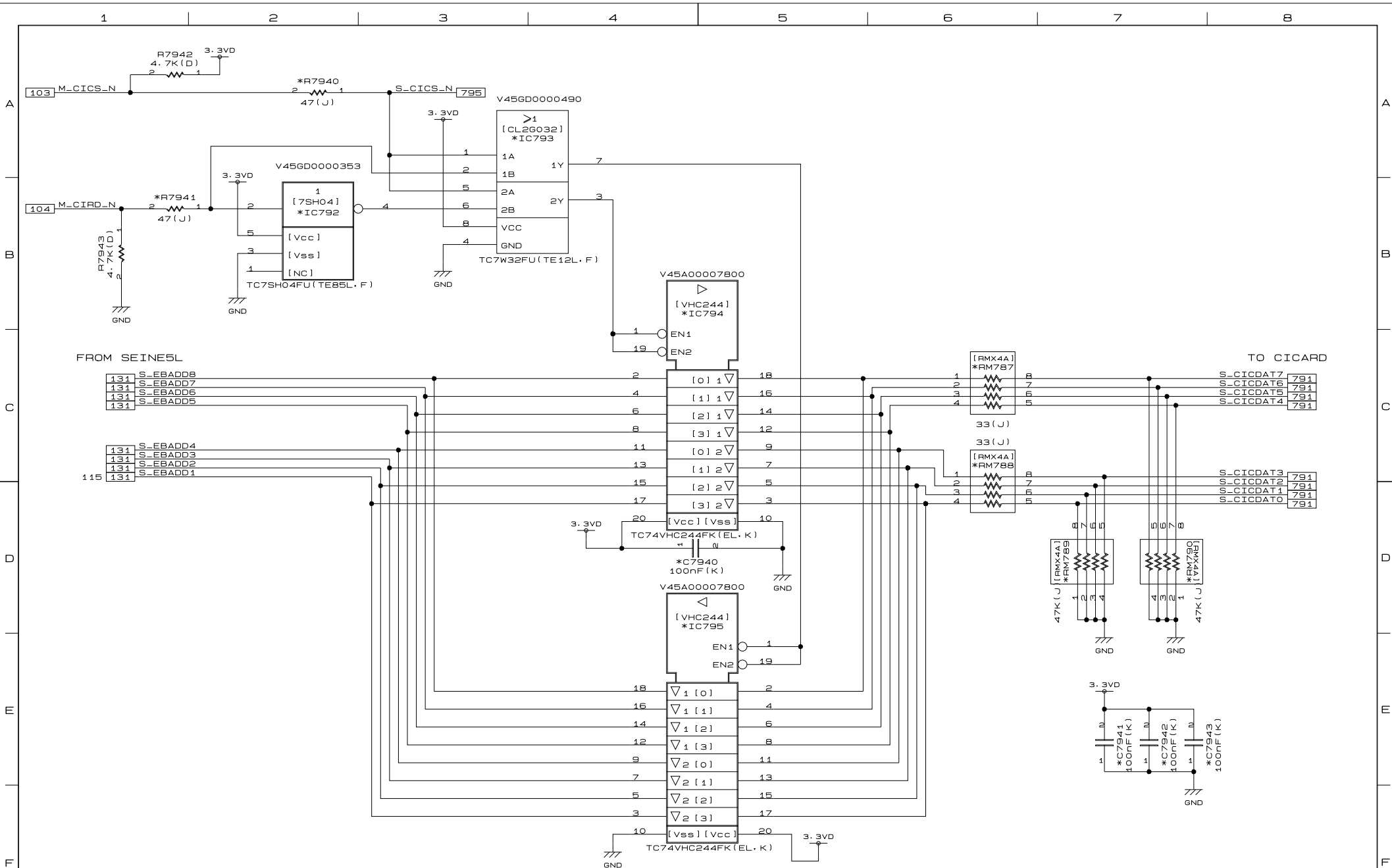
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TOSHIBA CORPORATION

DESIGNED BY
T. SHIMIZUTITLE
MAIN UNITFUNCTION
CI ADDRESS BUFFERSH. NO.
793PAGE NO.
91REV. MARK
PPDRAWING NO.
PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY
T. SHIMIZU

TITLE
MAIN UNIT

FUNCTION
CI DATA BUFFER

SH. NO.
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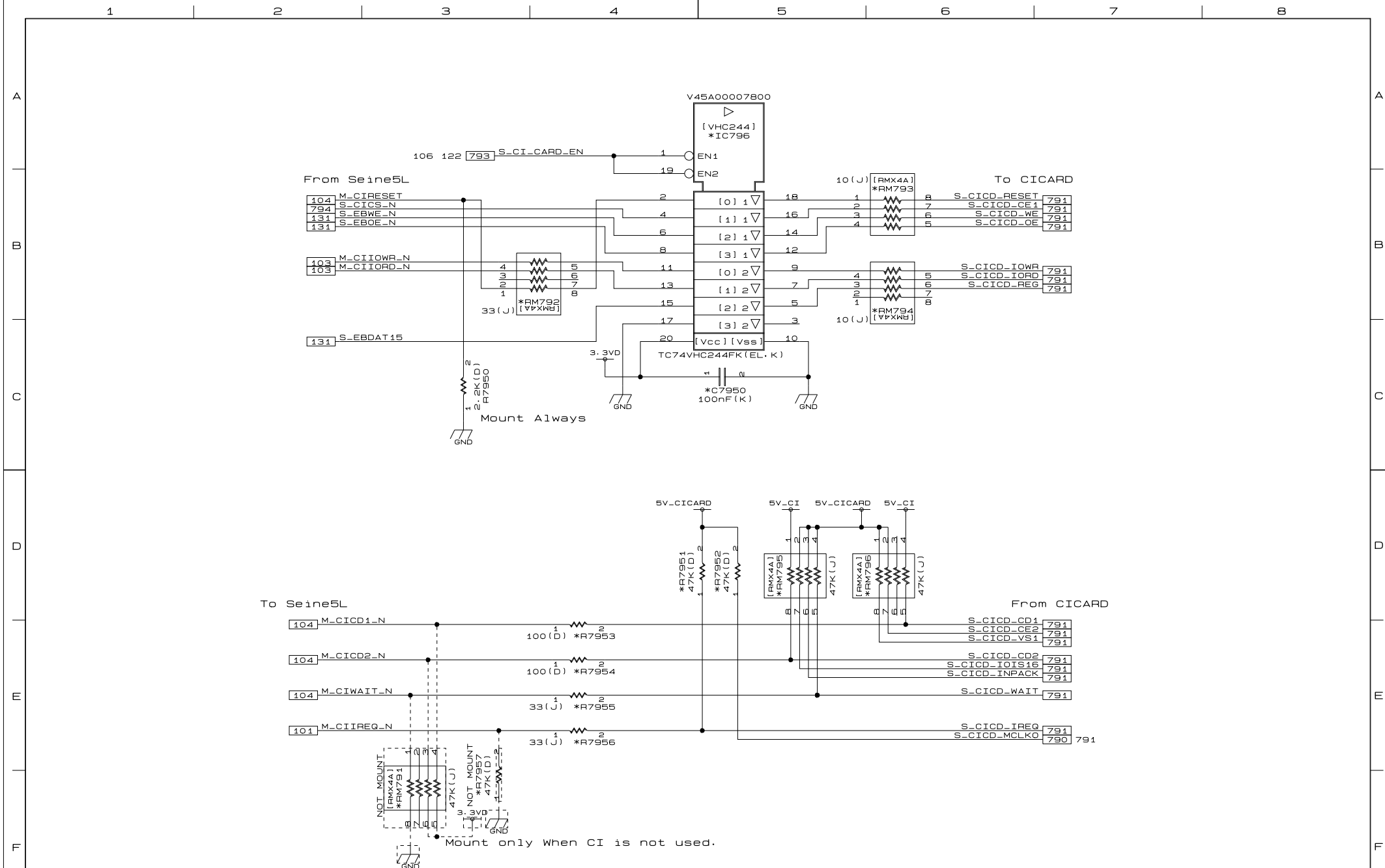
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PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY
T. SHIMIZU

TITLE
MAIN UNIT

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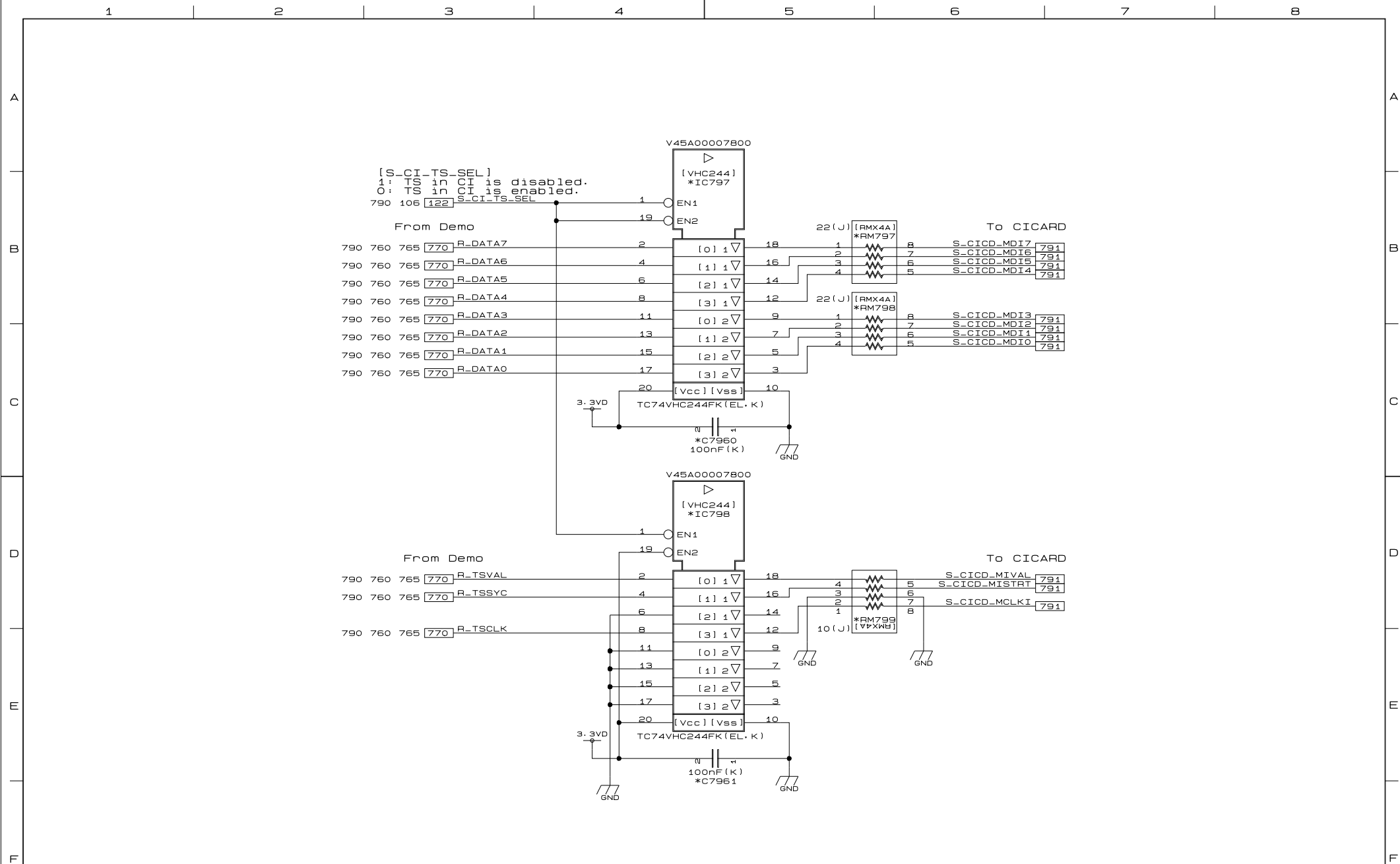
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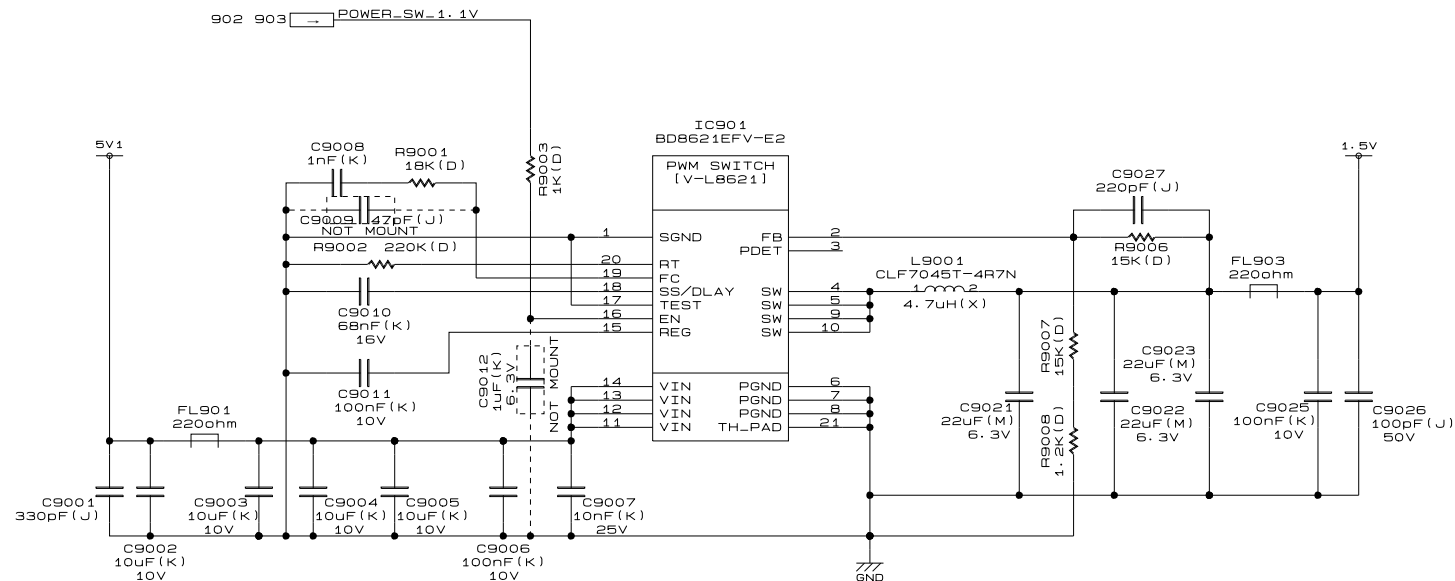
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TOSHIBA CORPORATION

DESIGNED BY
T. SHIMIZUTITLE
MAIN UNITFUNCTION
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94REV. MARK
PPDRAWING. NO.
PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY 2011/02/10

Nagaoka/Nakano

TITLE

MAIN UNIT

FUNCTION

POWER 1.5V

SH. NO.

901

PAGE NO.

95

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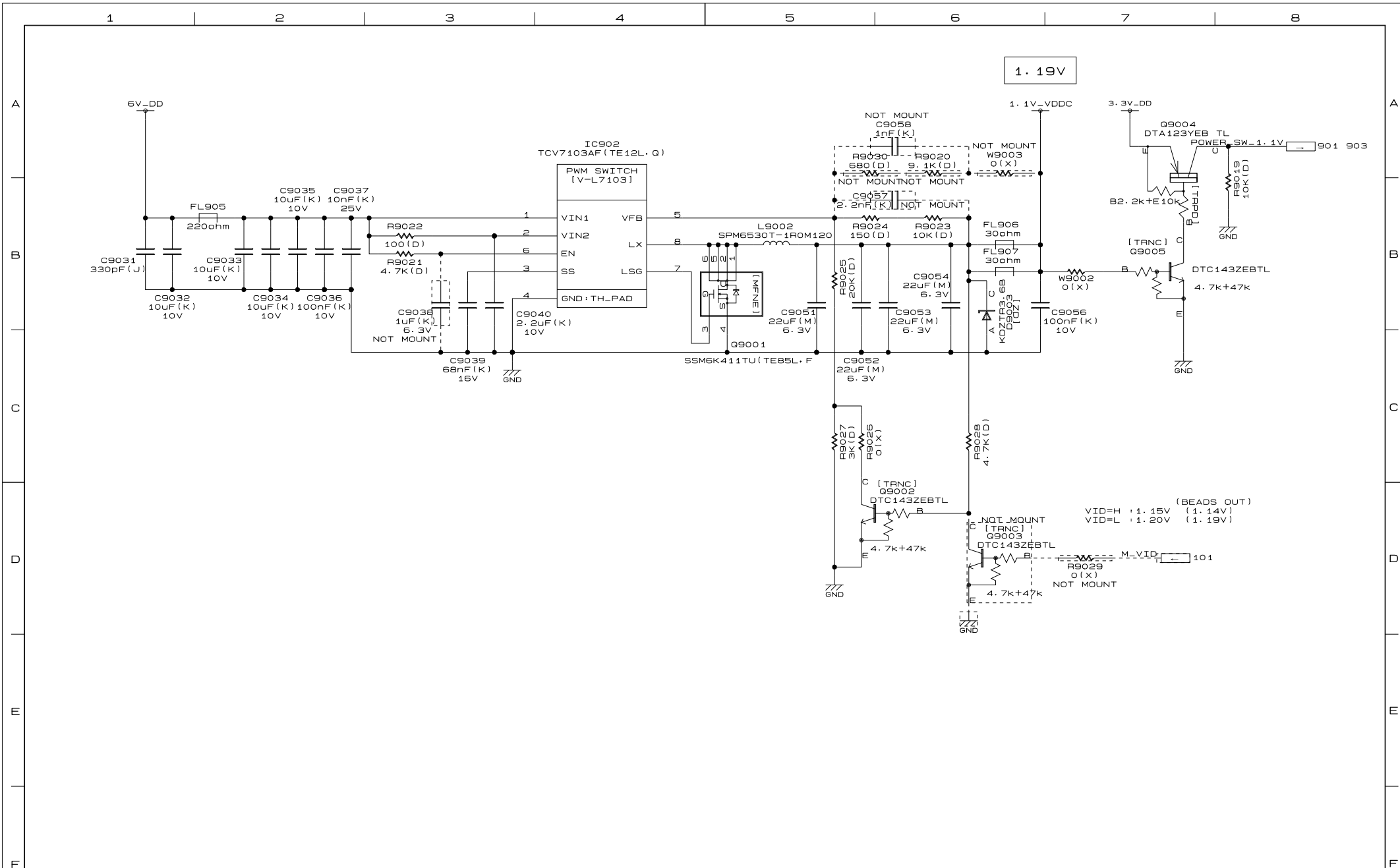
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2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY 2011/02/10
Nagaoka/Nakano

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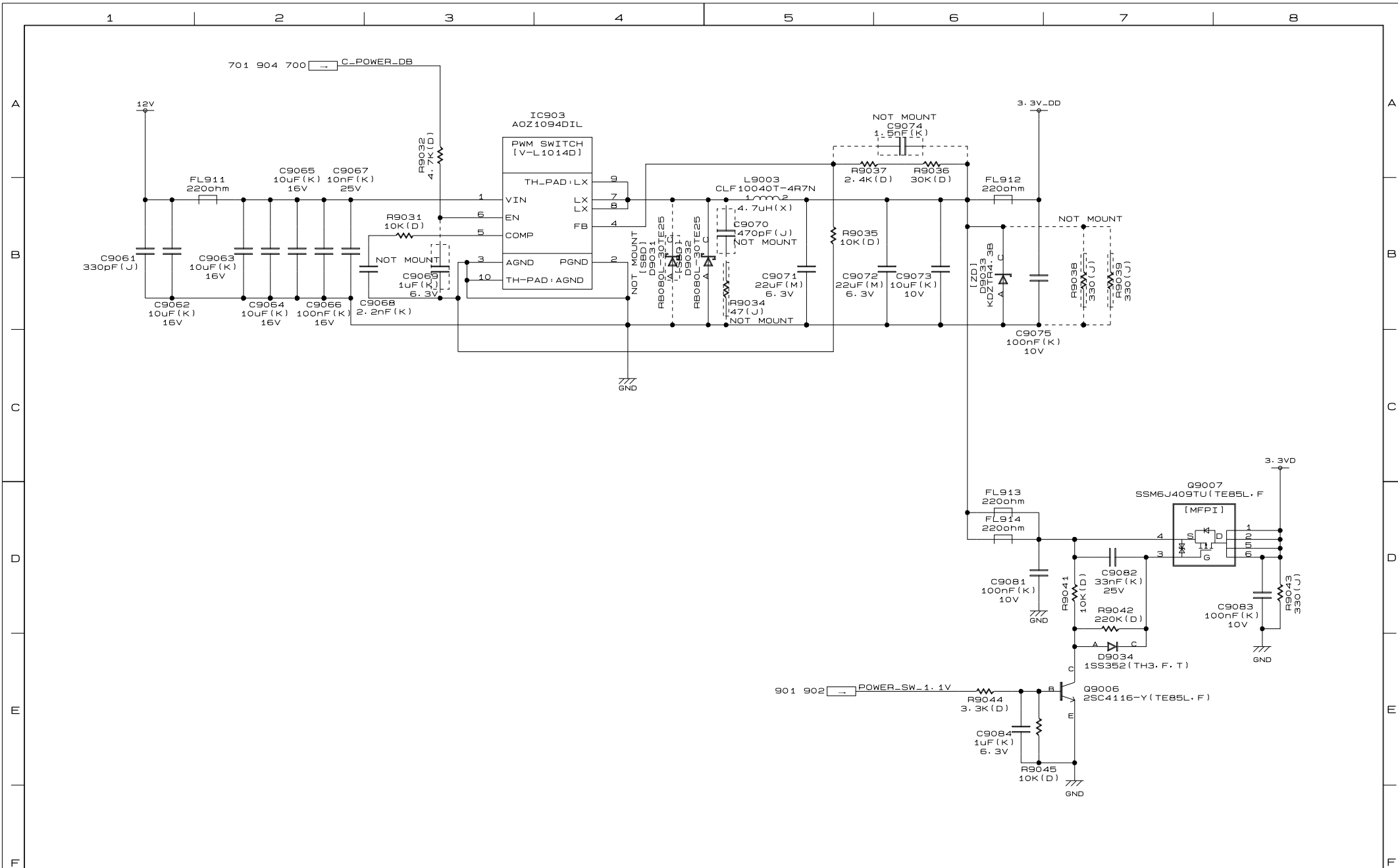
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PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY 2011/02/10
Nagaoka/Nakano

TITLE
MAIN UNIT

FUNCTION
POWER 3.3VD

SH. NO.
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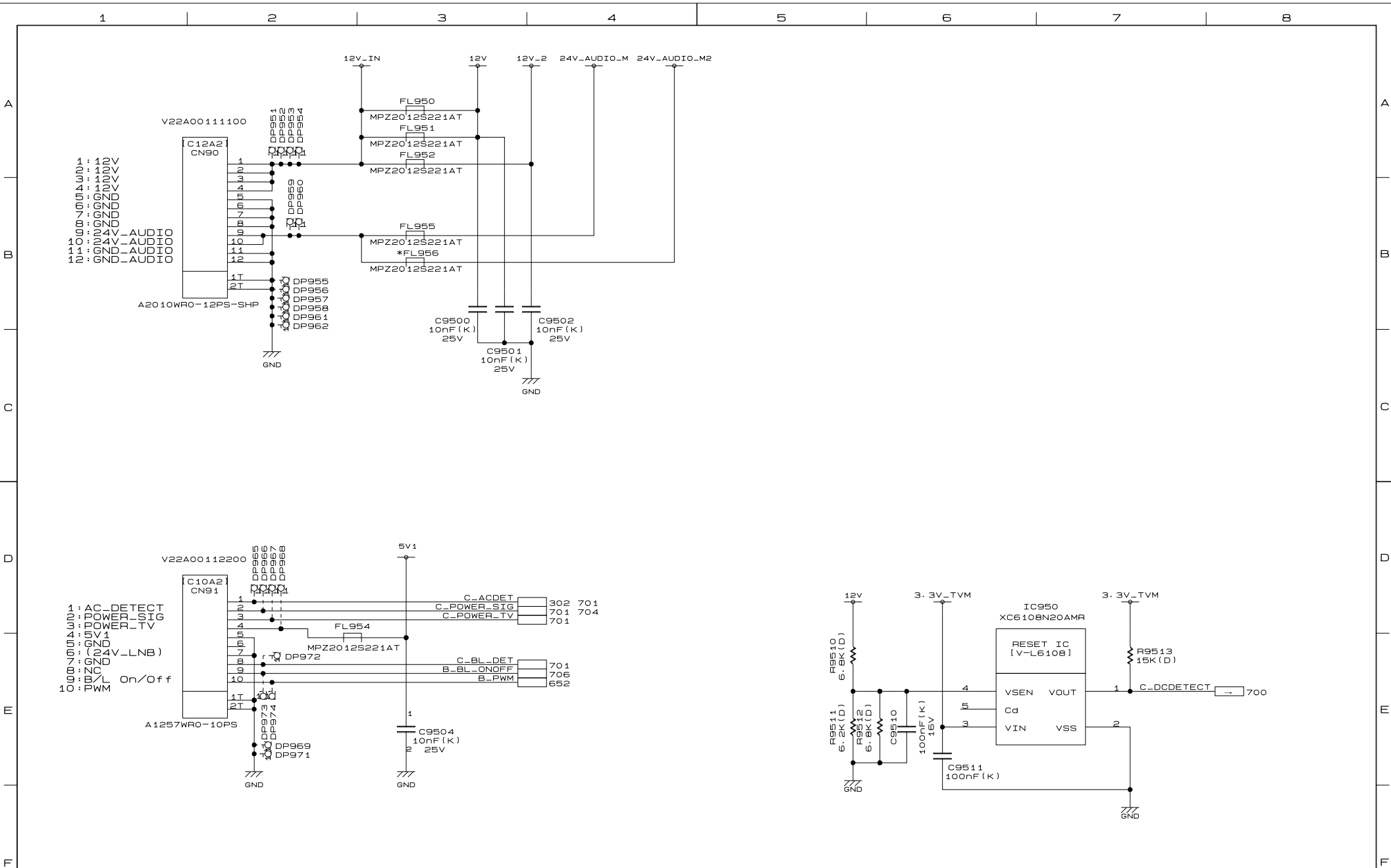
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DRAWING. NO.
PE0993

2011.03.11 09:38

TOSHIBA CORPORATION



DESIGNED BY
T. SHIMIZU

TITLE
MAIN UNIT

FUNCTION
POWER CONNECTOR

SH. NO.
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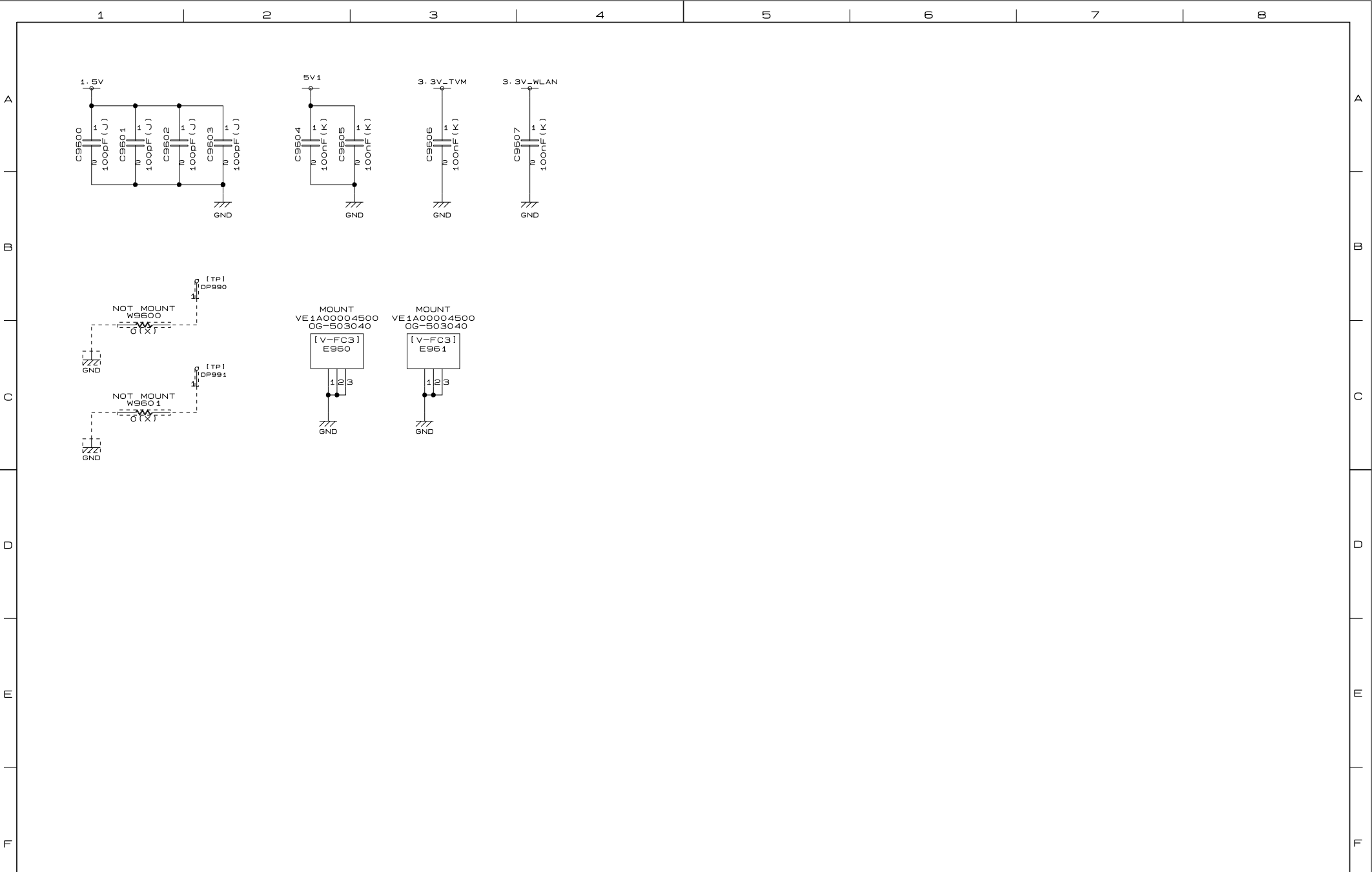
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DRAWING. NO.
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TOSHIBA CORPORATION



DESIGNED BY
T. SHIMIZU

TITLE
MAIN UNIT

FUNCTION
EMC CONTROL

SH. NO.
960

PAGE NO.
100

REV. MARK
PP

DRAWING. NO.
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