



# SCHEMATIC DIAGRAM

MODEL : 42WP56P

**WARNING :** BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON THE MANUAL FOR THIS MODEL.

**CAUTION :** The international hazard symbols " $\triangle$ " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SERVICE SAFETY PRECAUTIONS on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

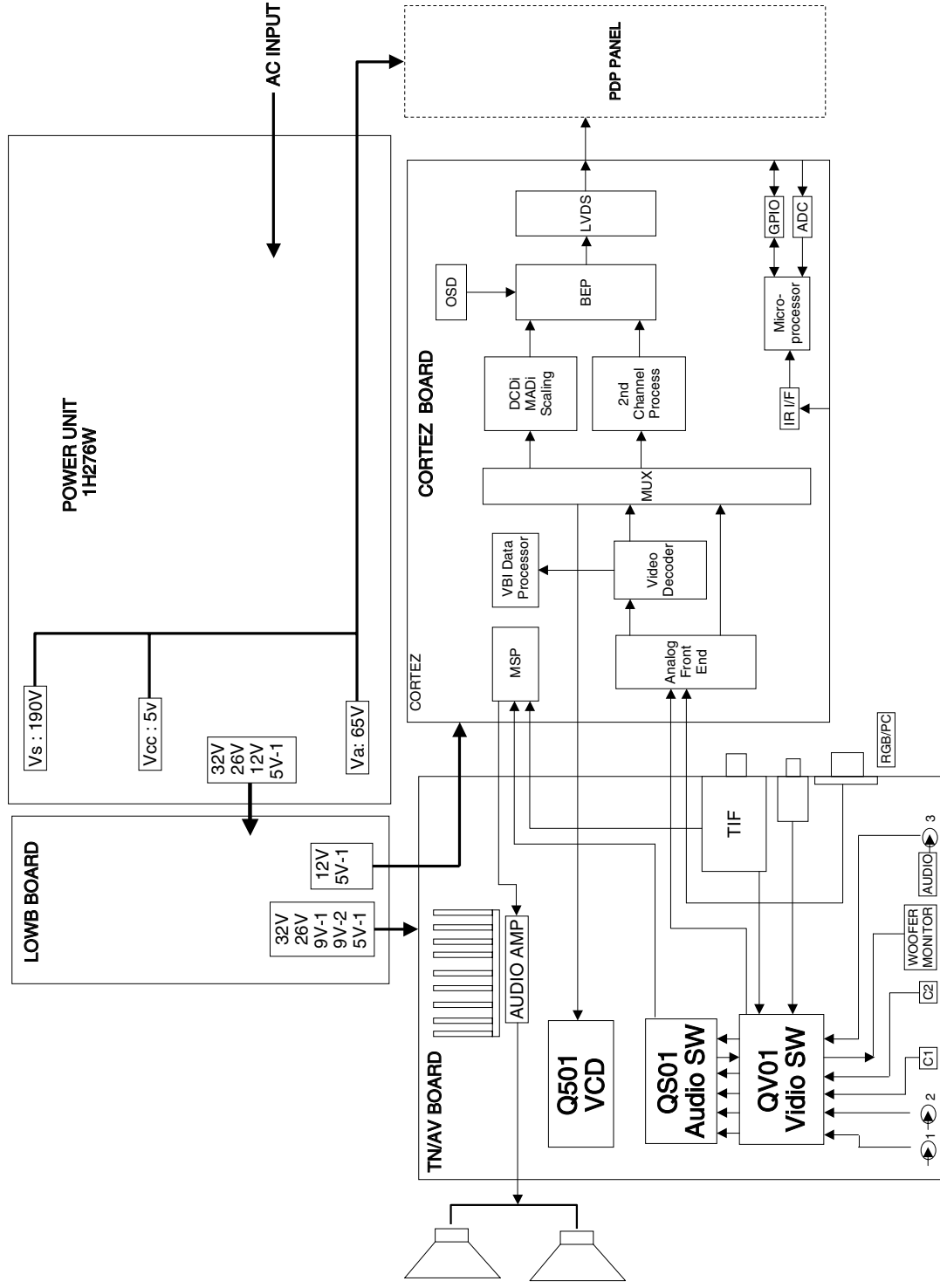
**NOTE:**

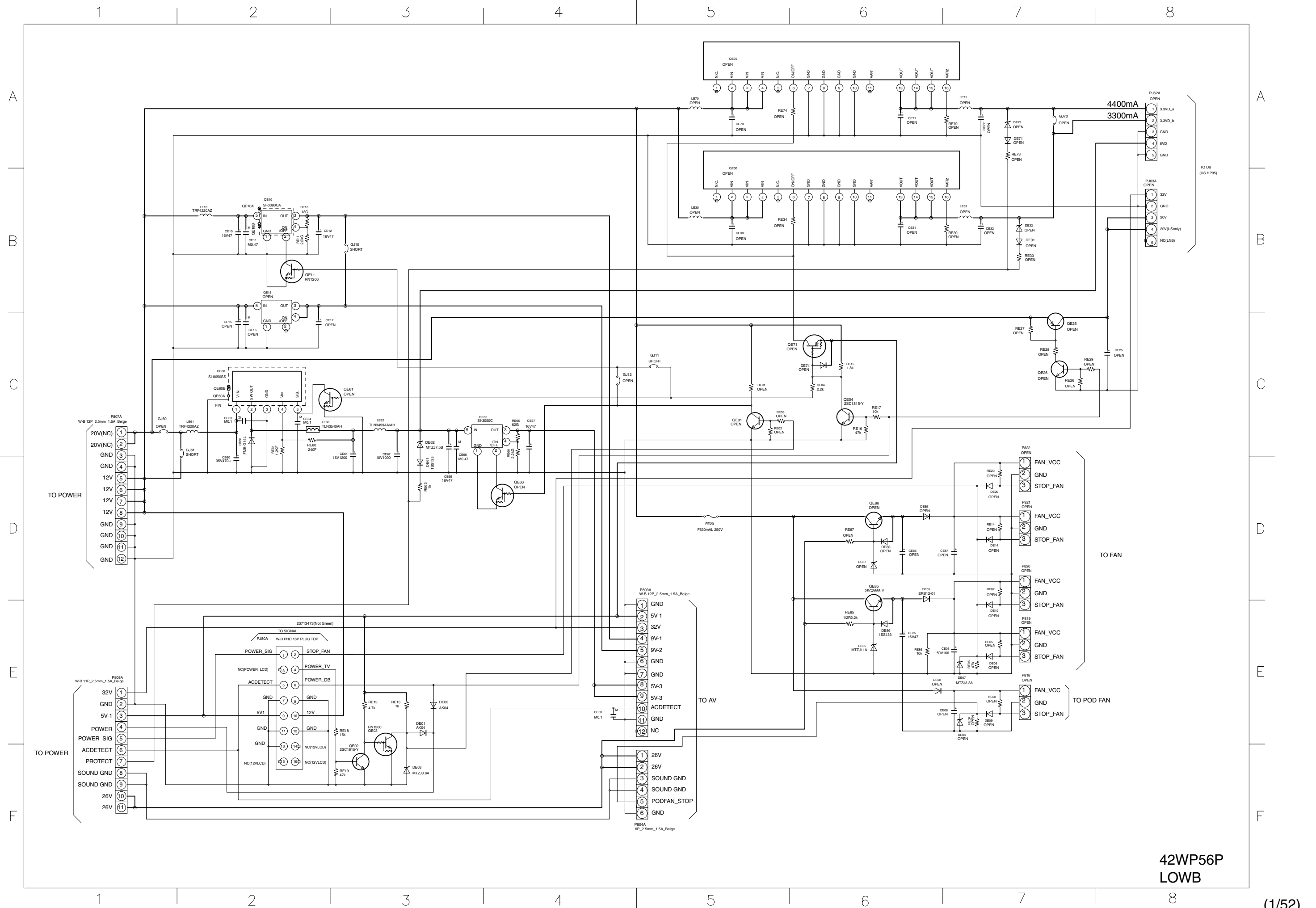
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.  
1/2R = Metal or Metal oxide of 1/2 watt                      1/2S = Carbon composition of 1/2 watt  
1RF = Fuse resistor of 1 watt                                      10W = Cement of 10 watt  
K =  $\pm 10\%$     G =  $\pm 2\%$     F =  $\pm 1\%$
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in  $\mu\text{F}$ , and the values more than 1 in pF.  
All capacitors are ceramic 50V, unless otherwise noted as the following marks.  
 Electrolytic capacitor                       Mylar capacitor
3. The parts indicated with "  $\triangle$  " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary  $\pm 20\%$  except H.V.

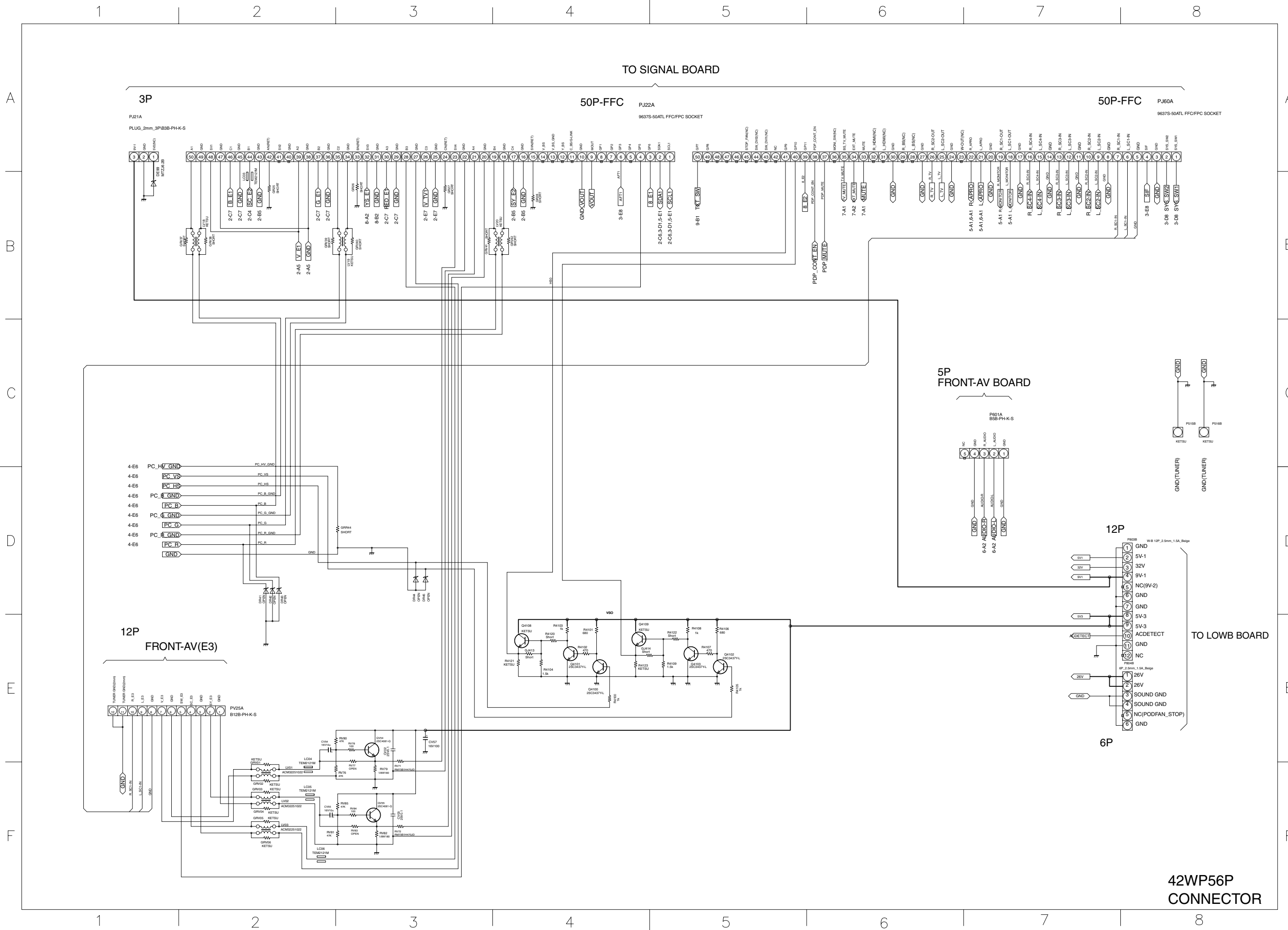
## ■ SCHEMATIC DIAGRAM STRUCTURE:

LOWB .....	1/52
CONNECTOR .....	2/52
AV-TERMINAL .....	3/52
TIF .....	4/52
A-OUT .....	5/52
TEXT-SW .....	6/52
TV-OUT .....	7/52
VIDEO-CROMA .....	8/52
EXPANDER FPR PDP .....	9/52
FRONT-AV .....	10/52
KEY .....	11/52
RMT LED .....	12/52
SIGNAL	
ANALOG IN	[SHEET-200] ..... 13/52
PIP VCD	[SHEET-206] ..... 14/52
REG/RESET	[SHEET-207] ..... 15/52
INPUT LPF	[SHEET-208] ..... 16/52
Functi	[SHEET-209] ..... 17/52
D IN A	[SHEET-300] ..... 18/52
D IN B	[SHEET-301] ..... 19/52
HDMI (Link, I2C)	[SHEET-302] ..... 20/52
HDMI Rx#2 (Video/Audio)	[SHEET-303] ..... 21/52
HDMI Rx#3 (PWR,Audio)	[SHEET-304] ..... 22/52
HDMI AUDIO PLL	[SHEET-305] ..... 23/52
HDMI AUDIO DAC	[SHEET-306] ..... 24/52
HDMI AUDIO OUT	[SHEET-307] ..... 25/52
HDMI CONTROLLER	[SHEET-308] ..... 26/52
EEPROM1	[SHEET-309] ..... 27/52
EEPROM2	[SHEET-310] ..... 28/52
MICRO I/O	[SHEET-400] ..... 29/52
OCM MEMORY I/F	[SHEET-401] ..... 30/52
FLASH MEMORY	[SHEET-402] ..... 31/52
SYNC SEPA	[SHEET-403] ..... 32/52
E2P OTHER	[SHEET-404] ..... 33/52
STD-BY MICOR	[SHEET-405] ..... 34/52
CORTEZ REG 1	[SHEET-406] ..... 35/52
CORTEZ REG 2	[SHEET-407] ..... 36/52
CORTEZ REG 3	[SHEET-408] ..... 37/52
BOOT CONFIG	[SHEET-409] ..... 38/52
SERVICE CONNECTOR	[SHEET-410] ..... 39/52
I2C Switch	[SHEET-411] ..... 40/52
AUDIO	[SHEET-600] ..... 41/52
AUDIO MSP	[SHEET-601] ..... 42/52
CORTEZ 1	[SHEET-700] ..... 43/52
CORTEZ 2	[SHEET-701] ..... 44/52
DDR I/F	[SHEET-702] ..... 45/52
DDR SDRAM	[SHEET-703] ..... 46/52
DDR TERMINATION	[SHEET-704] ..... 47/52
DCDC CONV.	[SHEET-802] ..... 48/52
LVDS OUT	[SHEET-900] ..... 49/52
LVDS OUT(SHARP LCD)	[SHEET-901] ..... 50/52
Power Connector and Dimming	[SHEET-902] ..... 51/52
LVDS Power and Others	[SHEET-903] ..... 52/52

# CIRCUIT BLOCK DIAGRAM







1

2

3

4

5

6

7

8

A

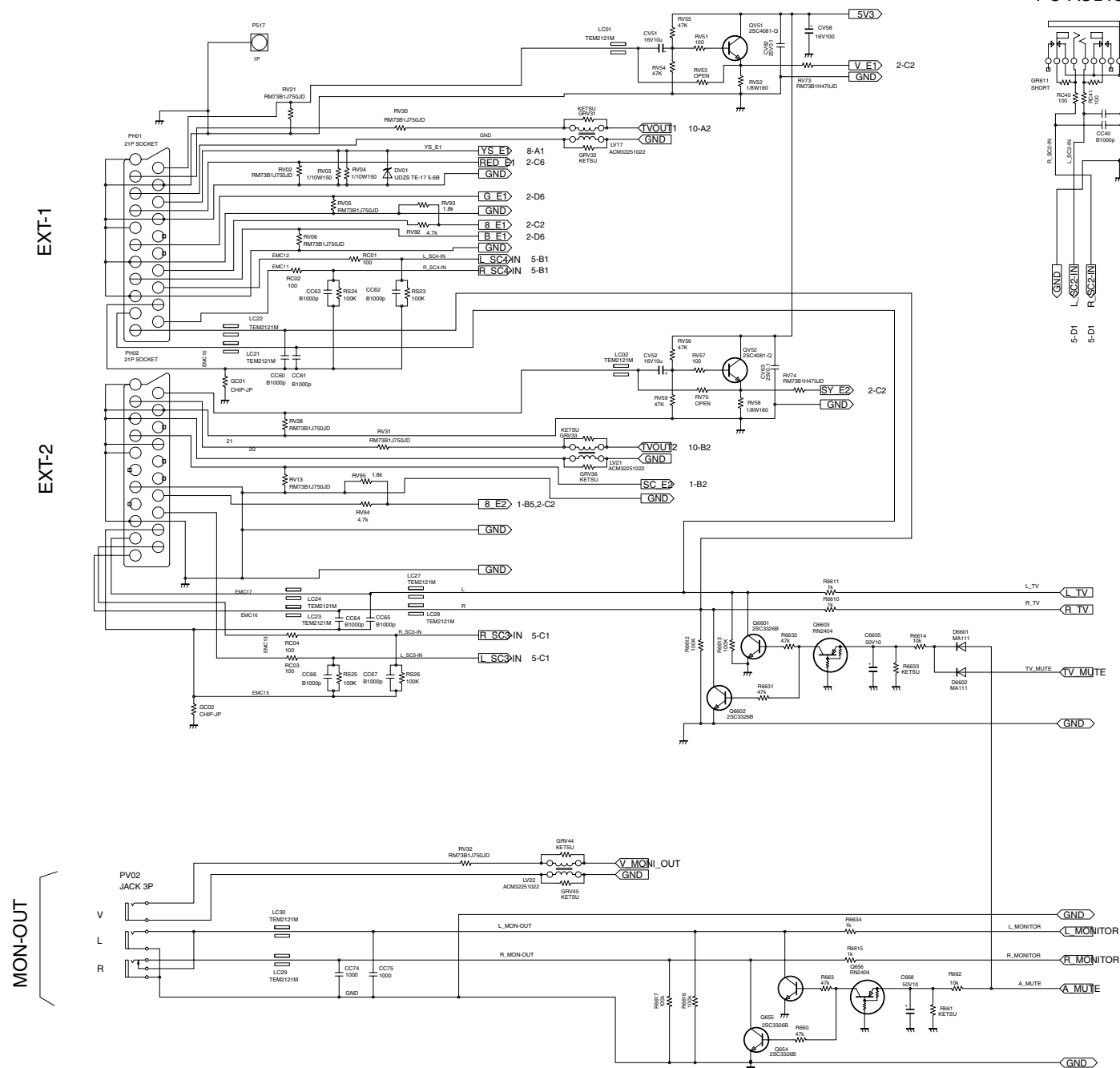
B

C

D

E

F



A

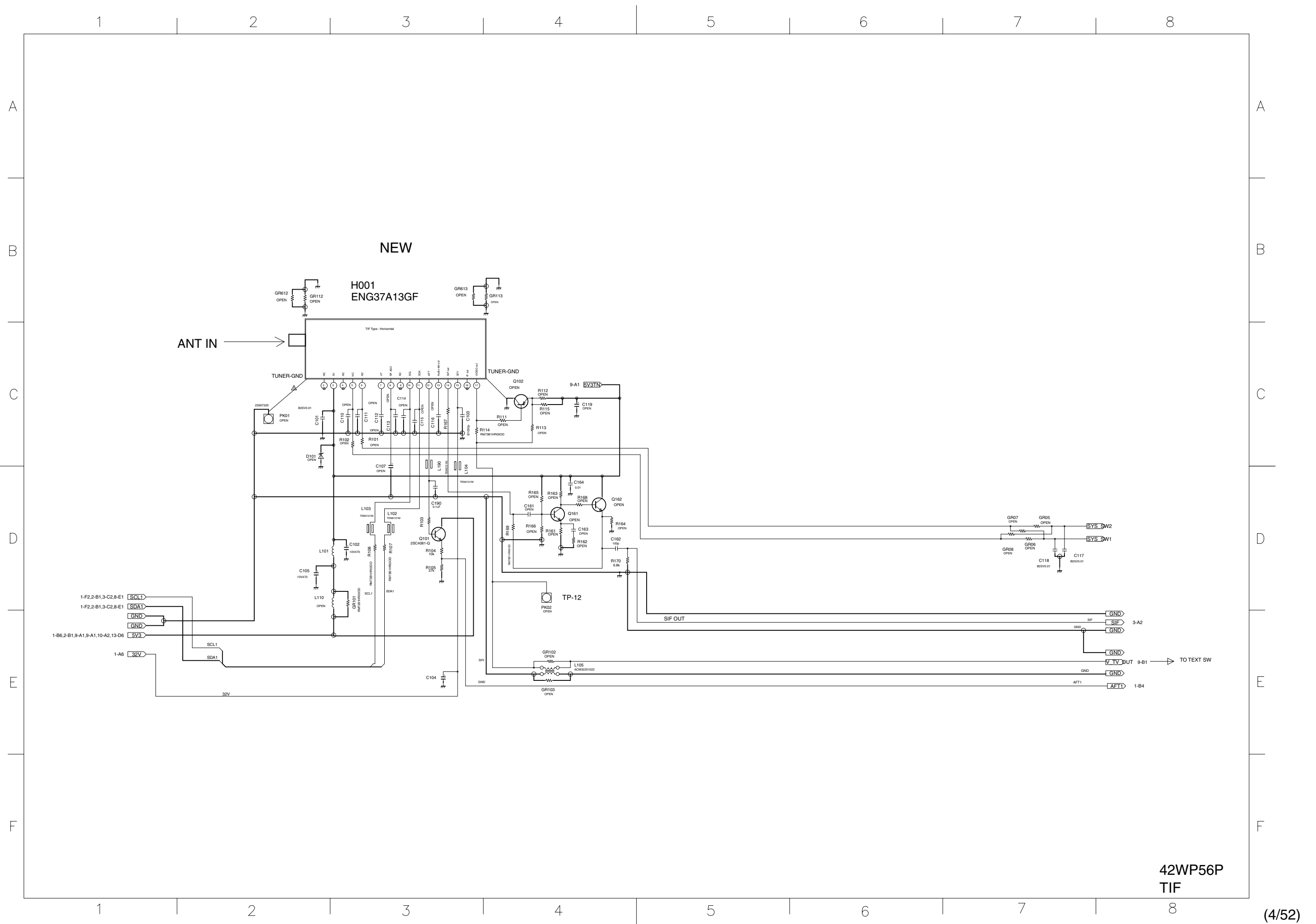
B

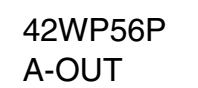
C

D

E

F







1

2

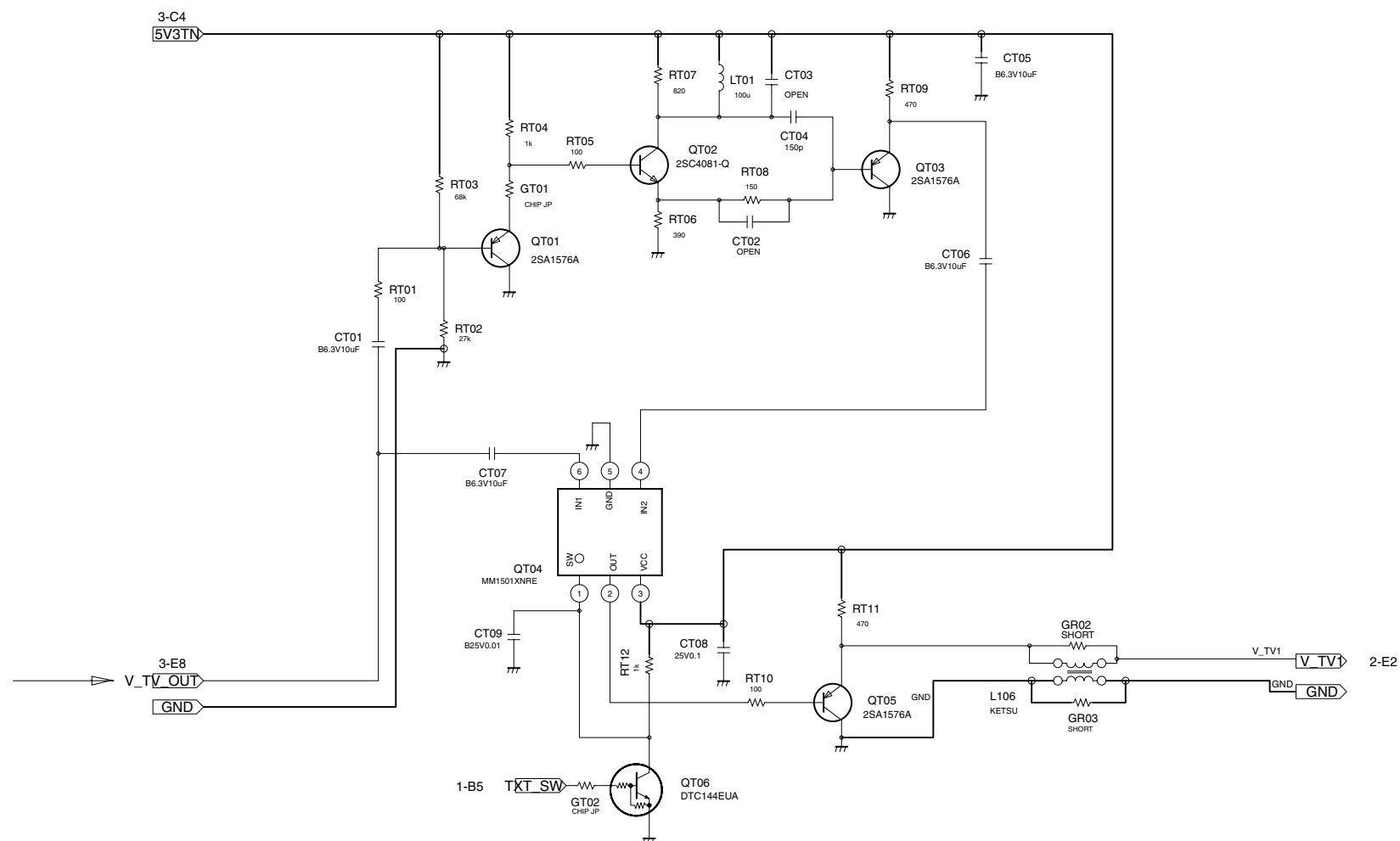
A

A

B

B

FROM TIF

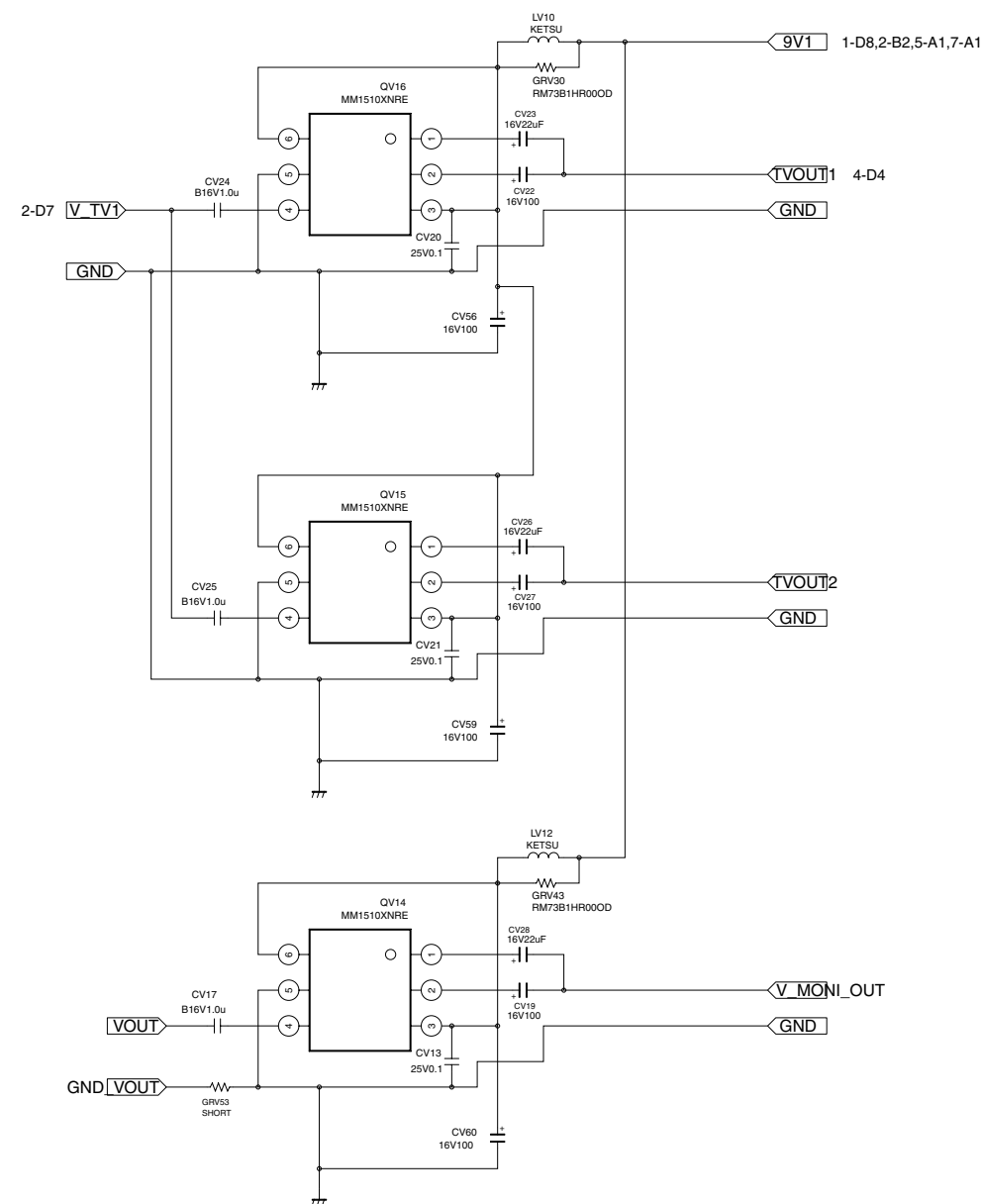
42WP56P  
TEXT-SW

1

2

1

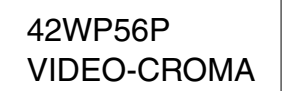
2



42WP56P  
TV-OUT

1

2



1

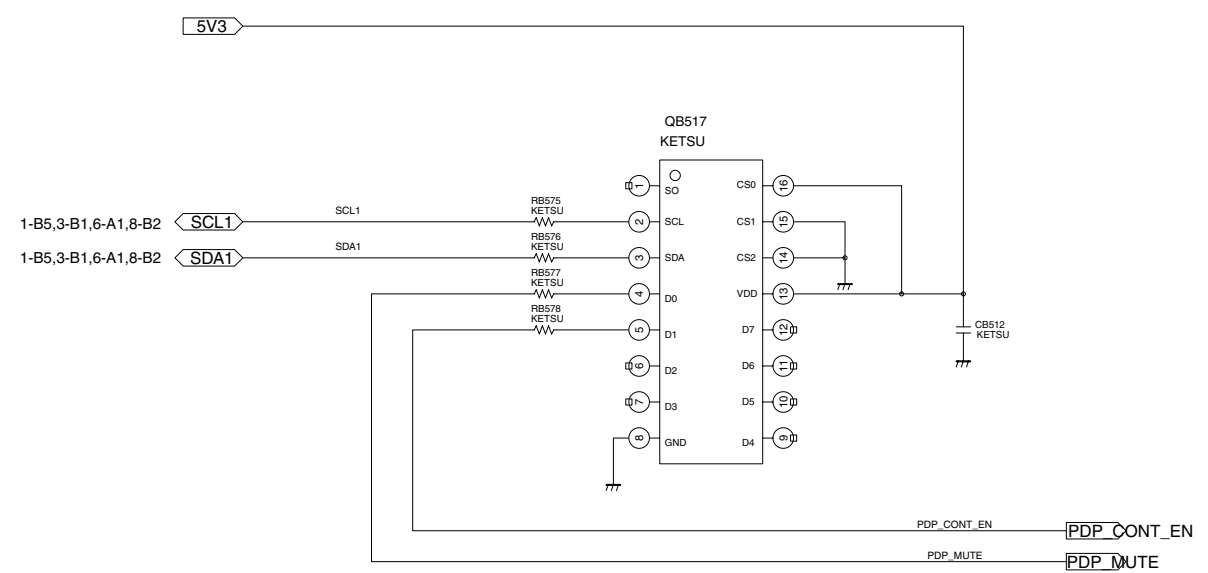
2

A

A

B

B



42WP56P  
EXPANDER FPR PDP

1

2

1

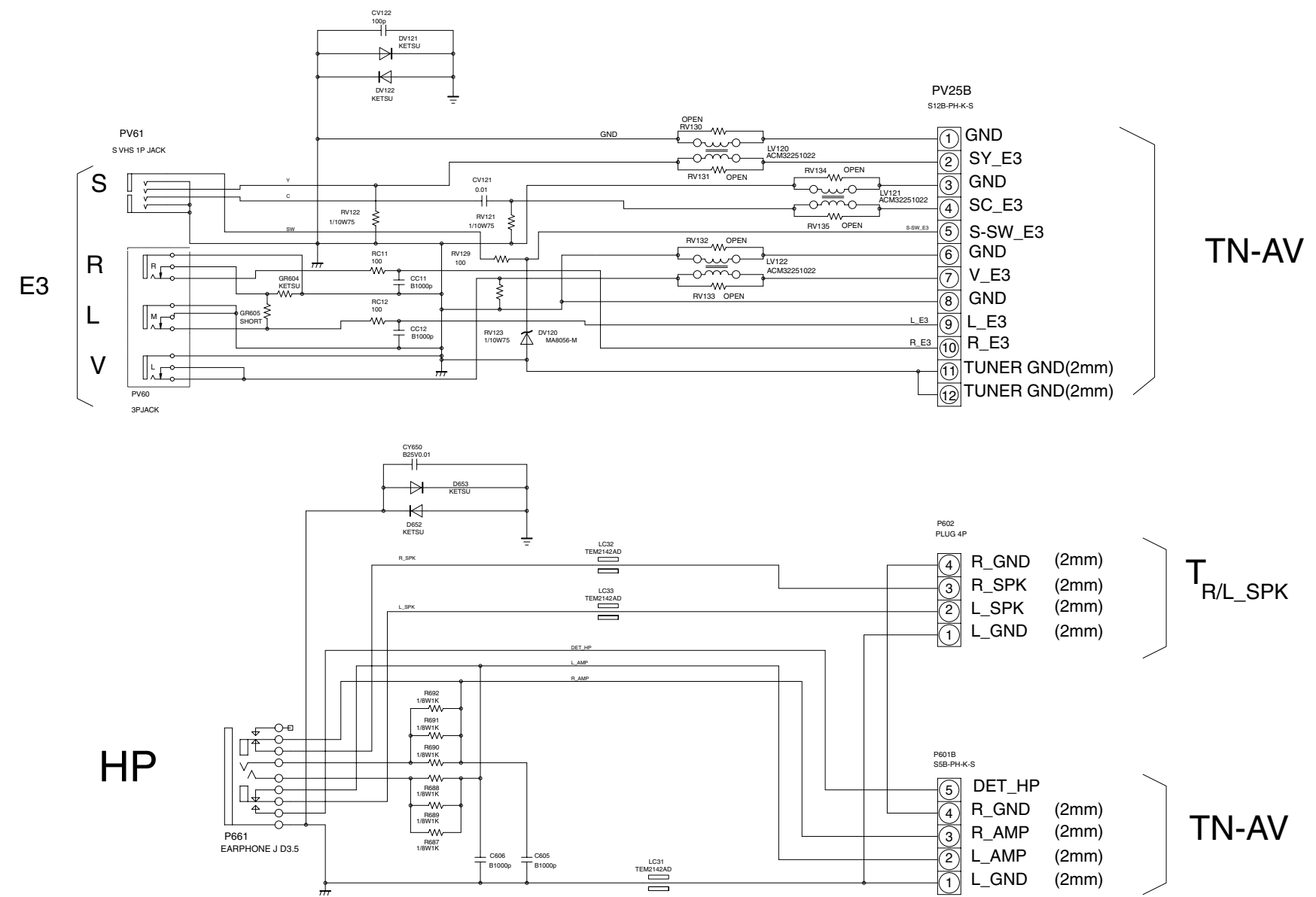
2

A

A

B

B



42WP56P  
FRONT-AV

1

2

1

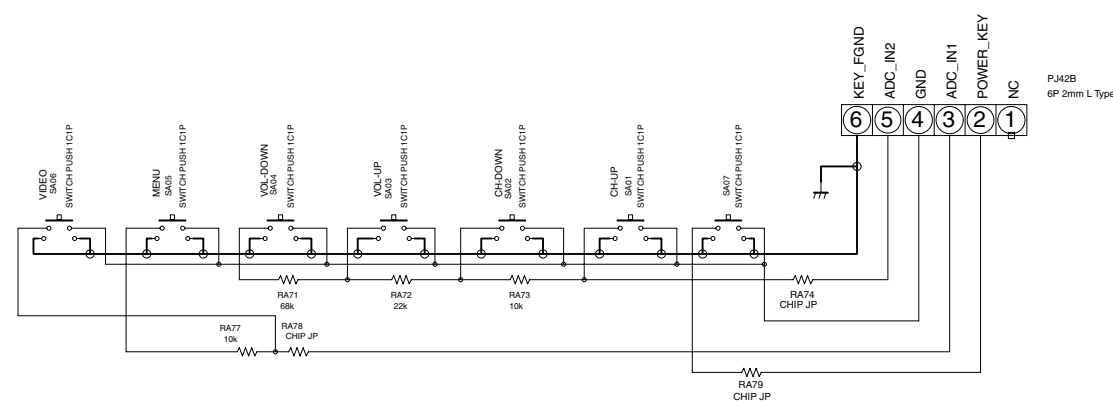
2

A

A

B

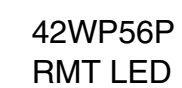
B



42WP56P  
KEY

1

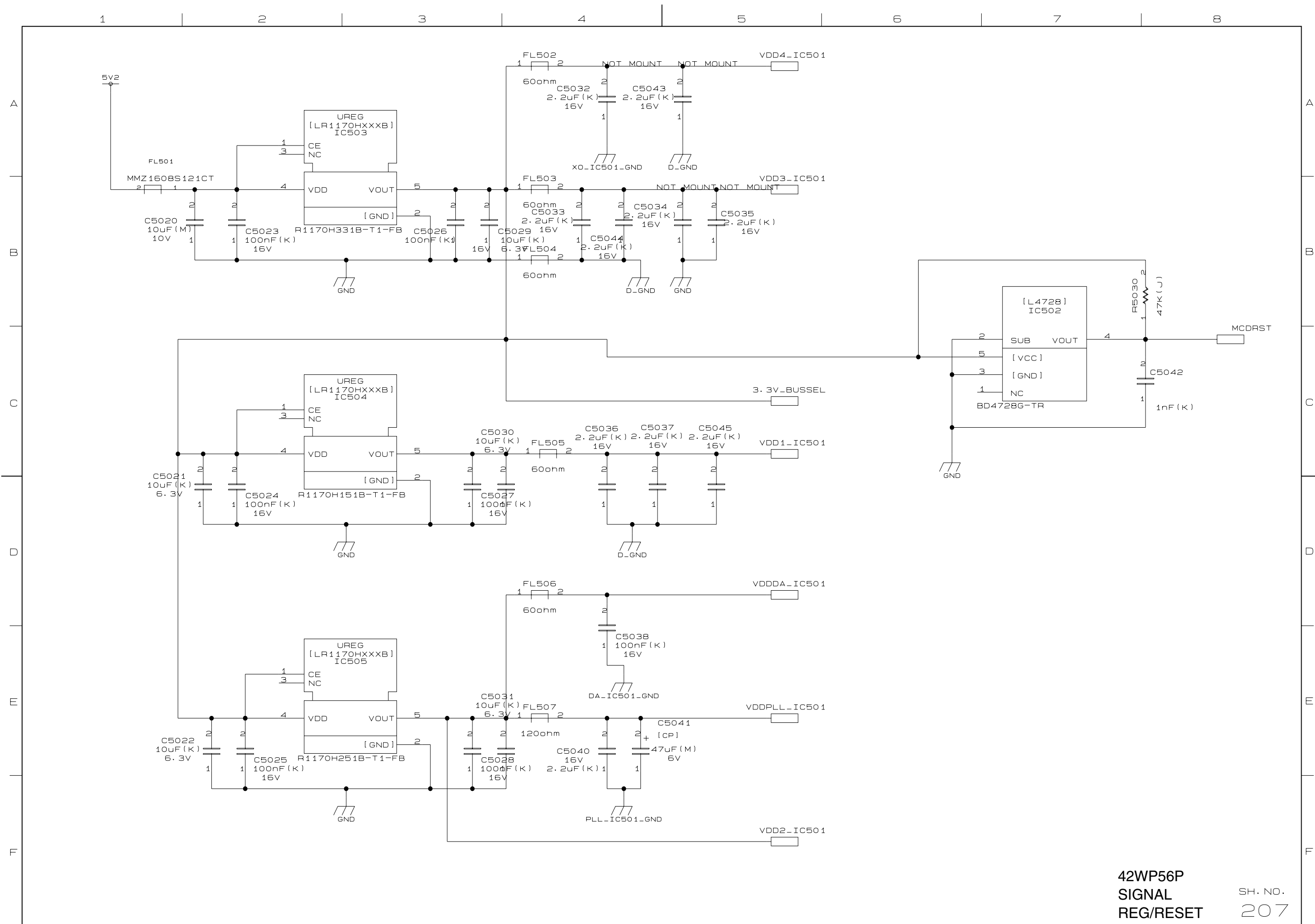
2

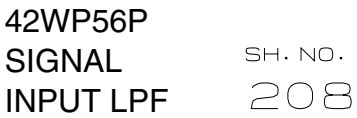


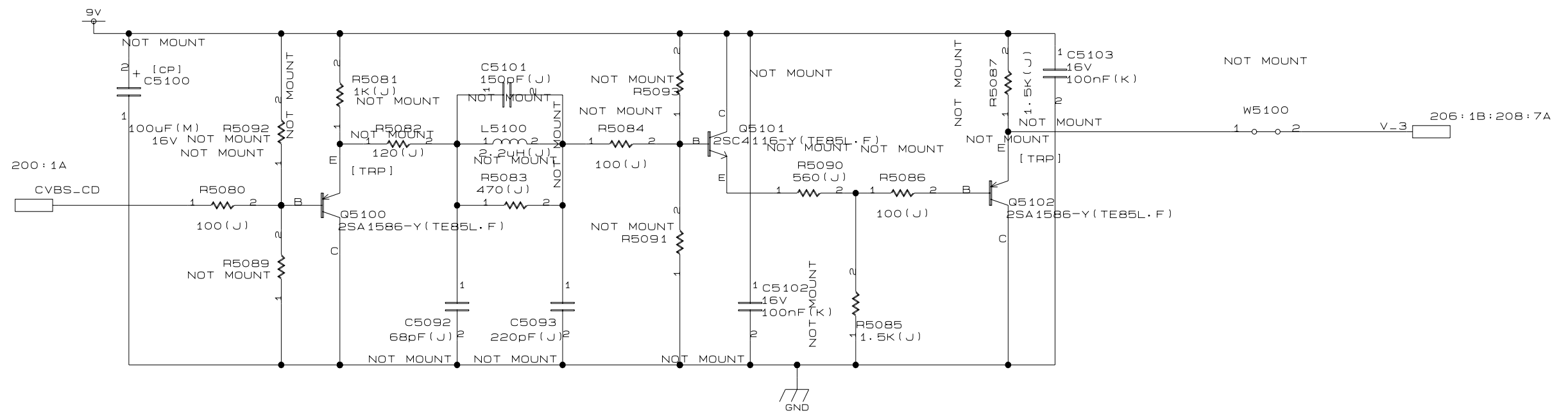






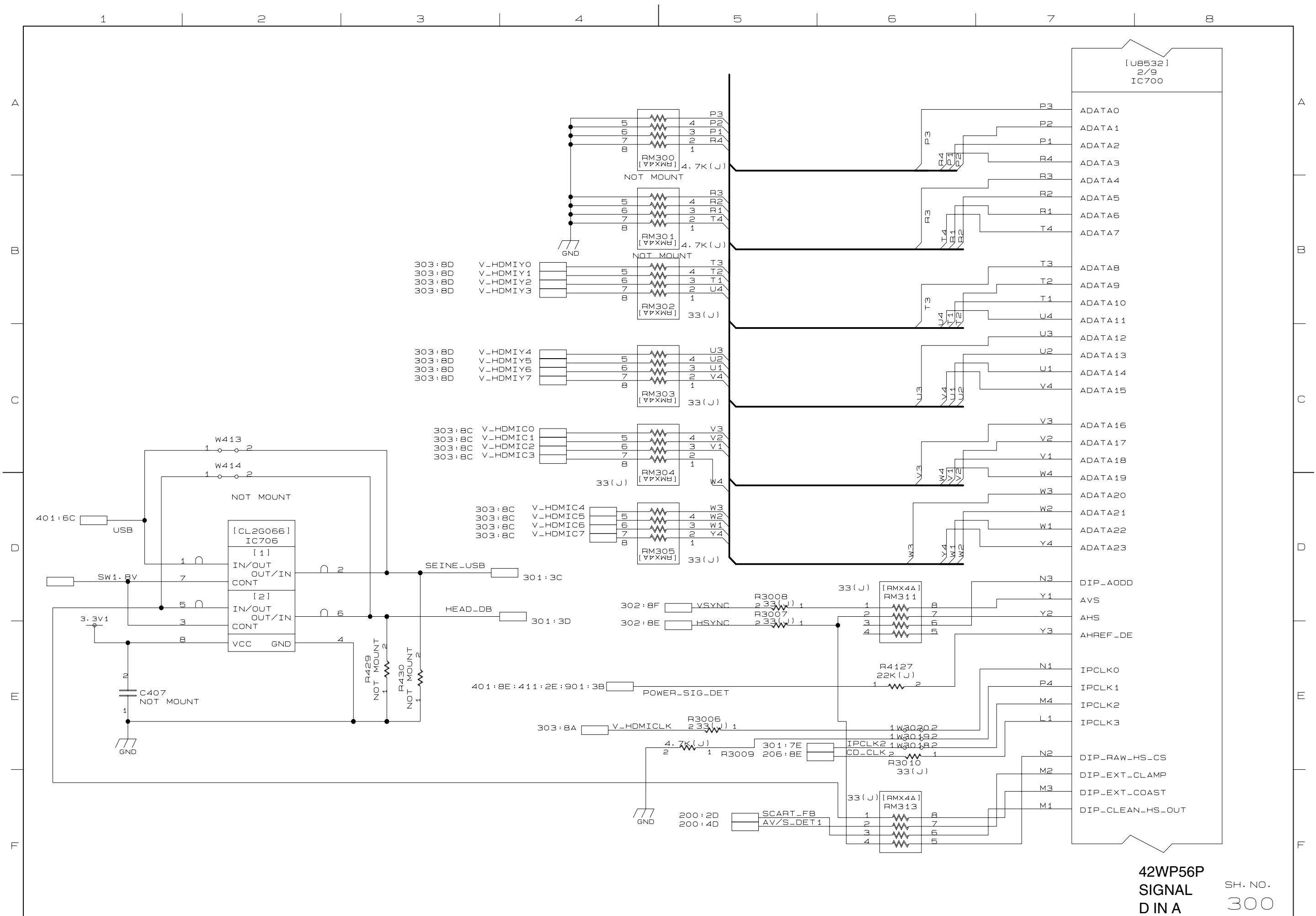


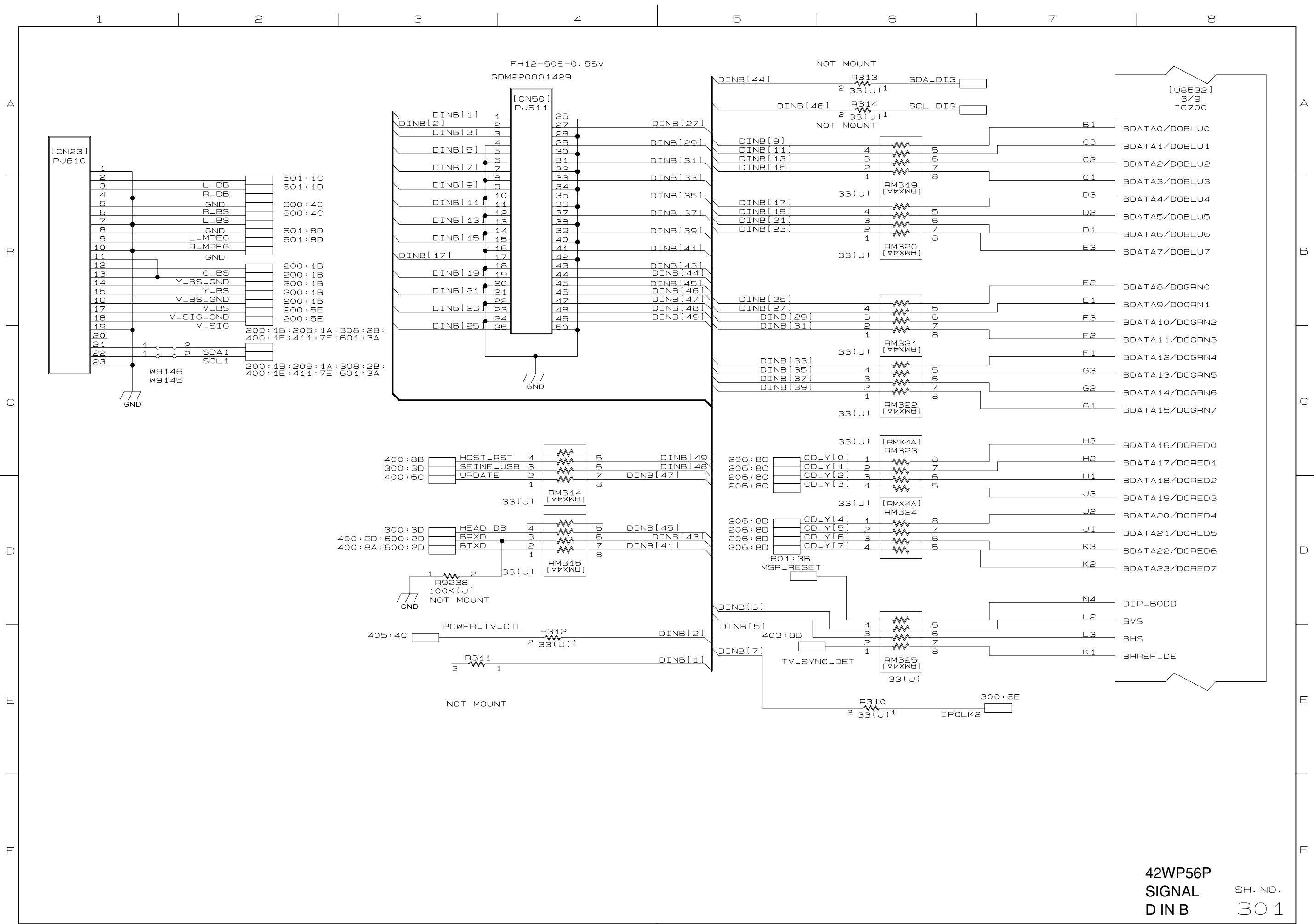




42WP56P  
SIGNAL  
Functi

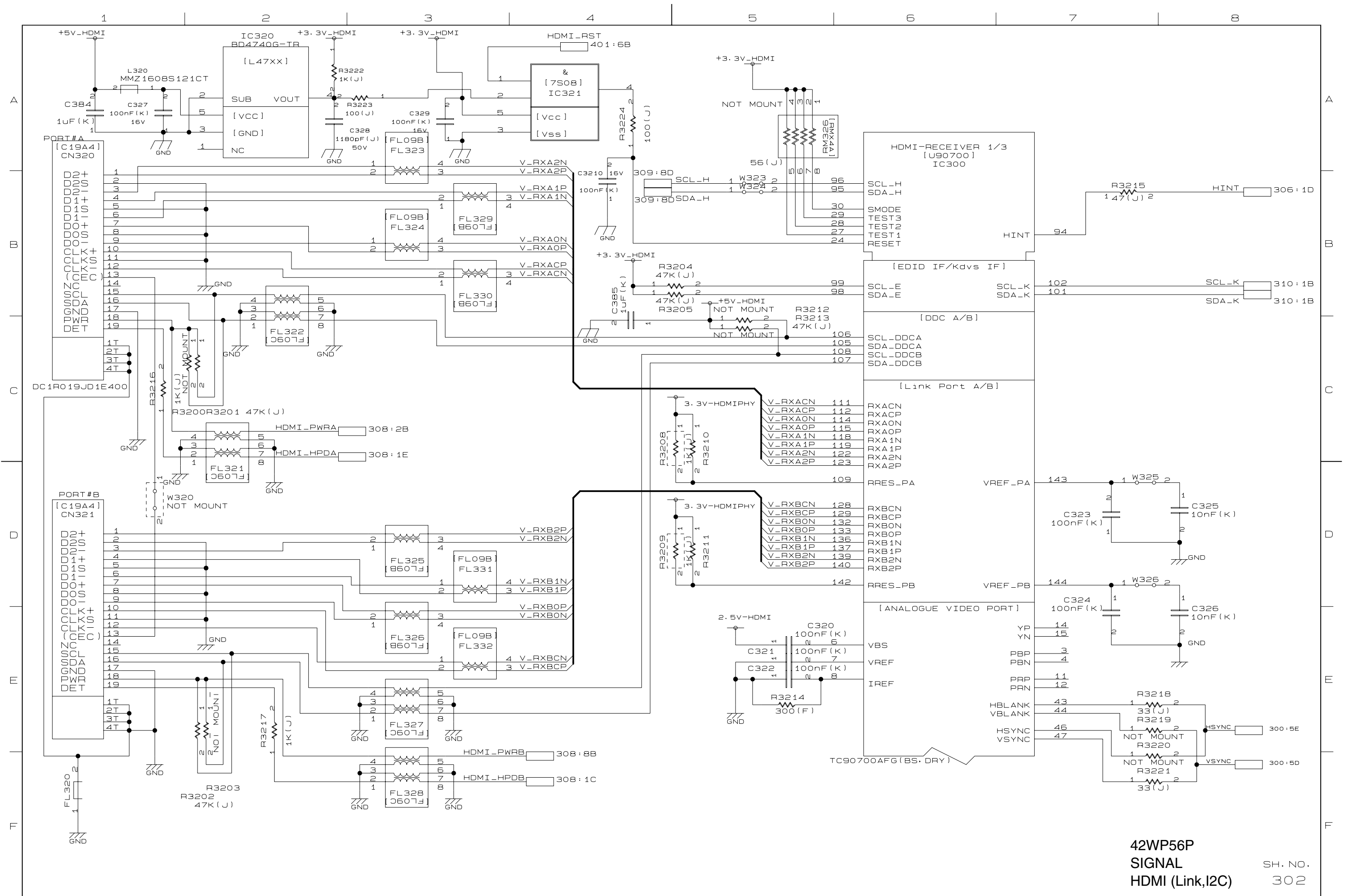
SH. NO.  
209

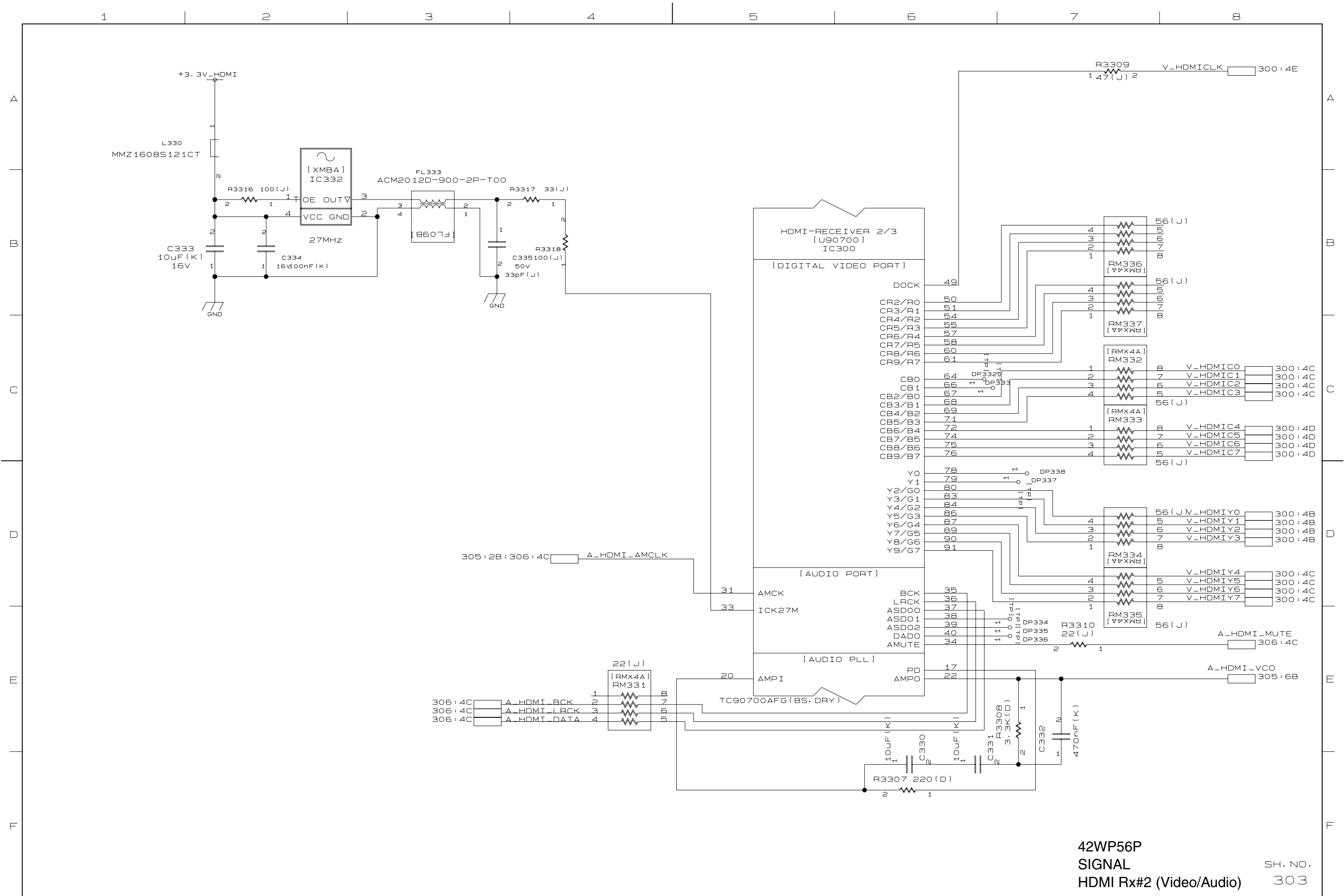




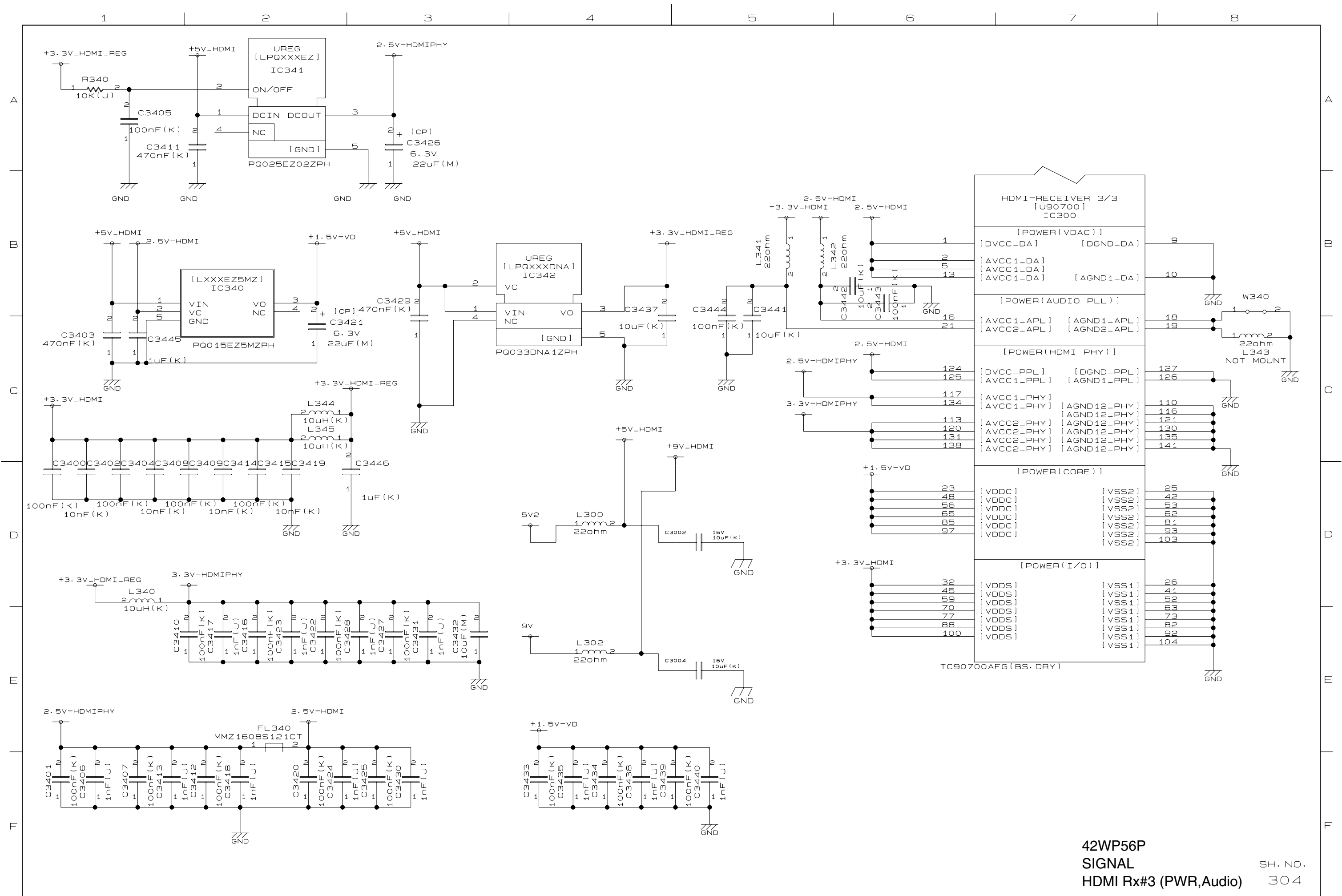
42WP56P  
SIGNAL  
D IN B

SH. NO.  
301









1

2

3

4

5

6

7

8

A

B

C

D

E

F

A

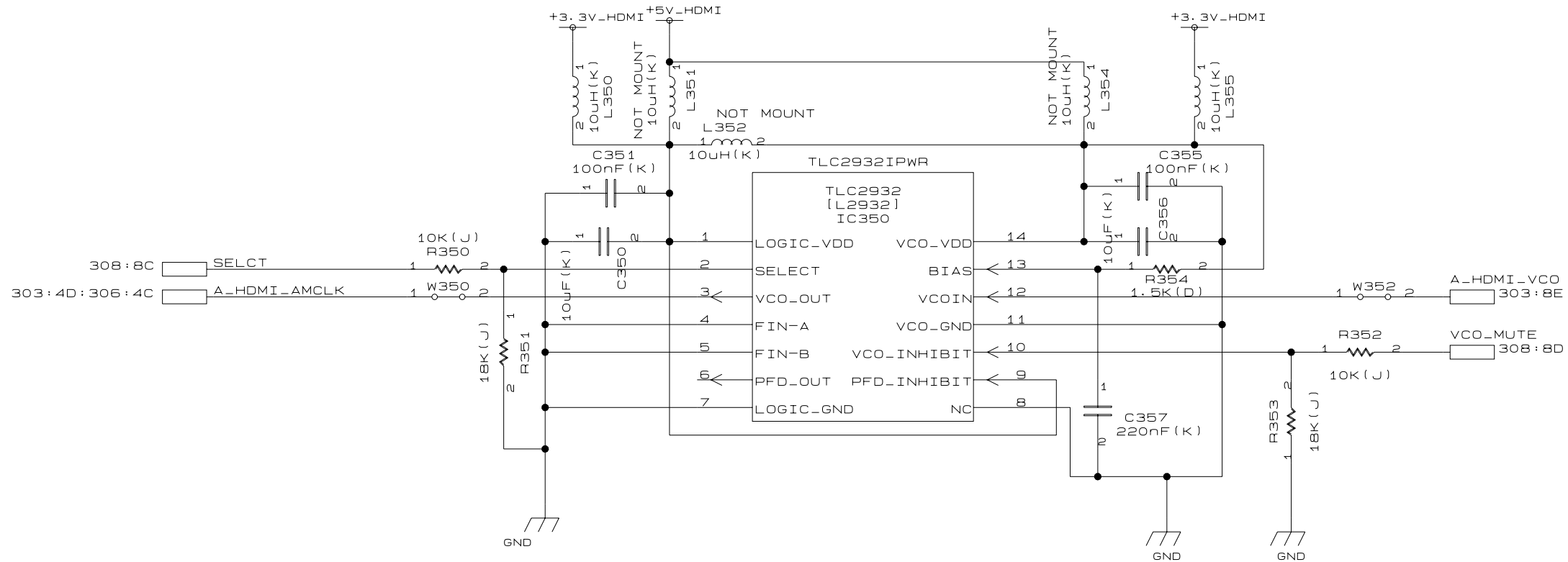
B

C

D

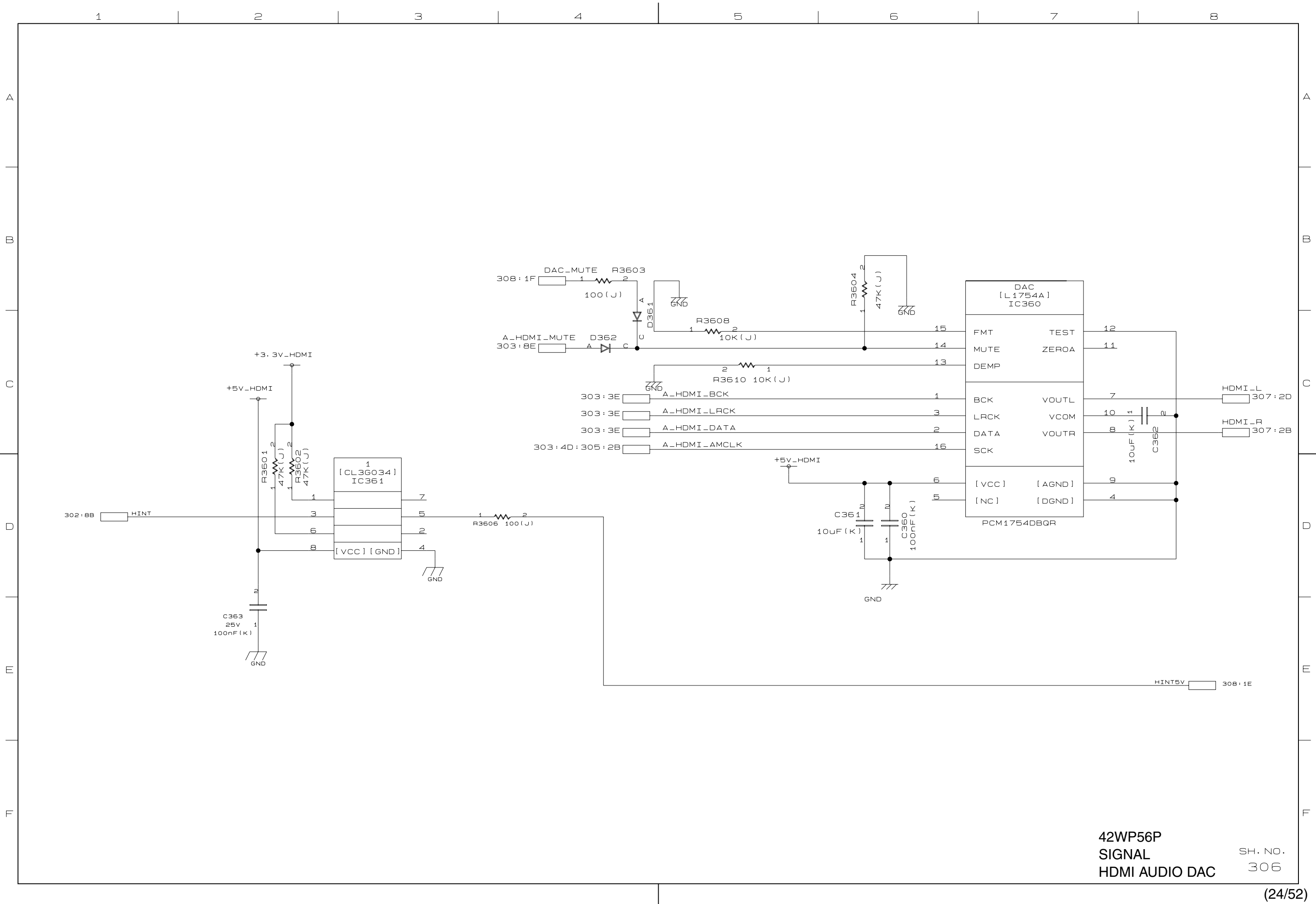
E

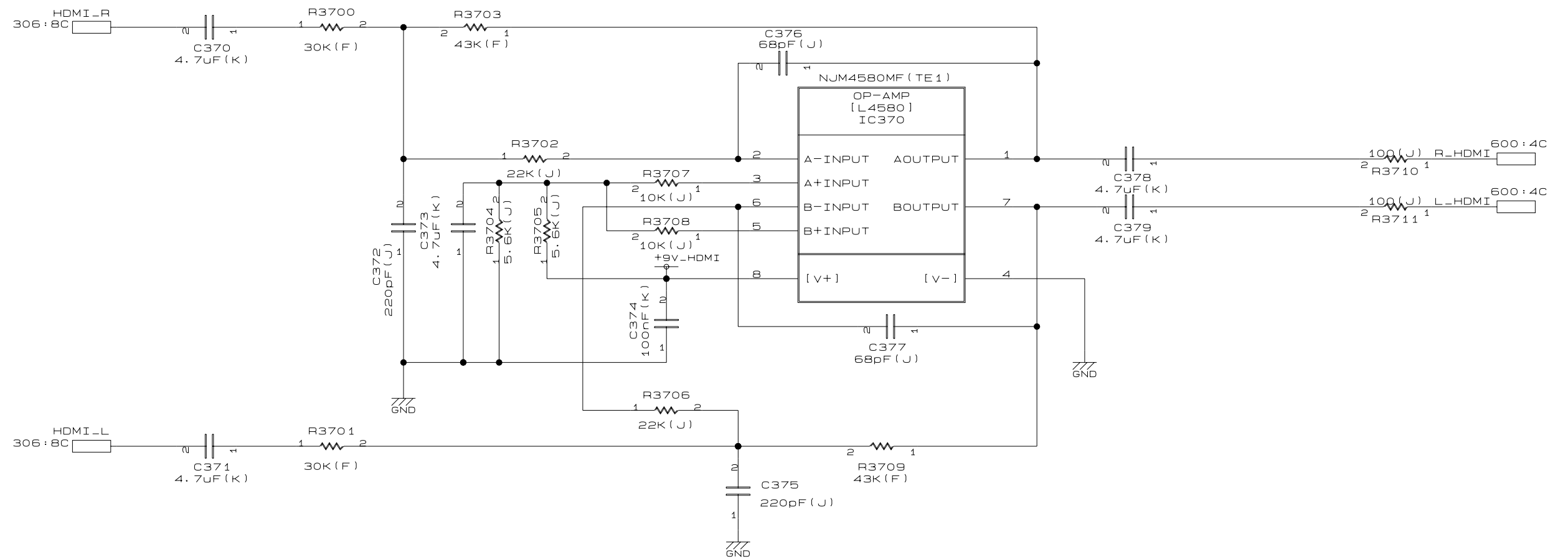
F



42WP56P  
SIGNAL  
HDMI AUDIO PLL

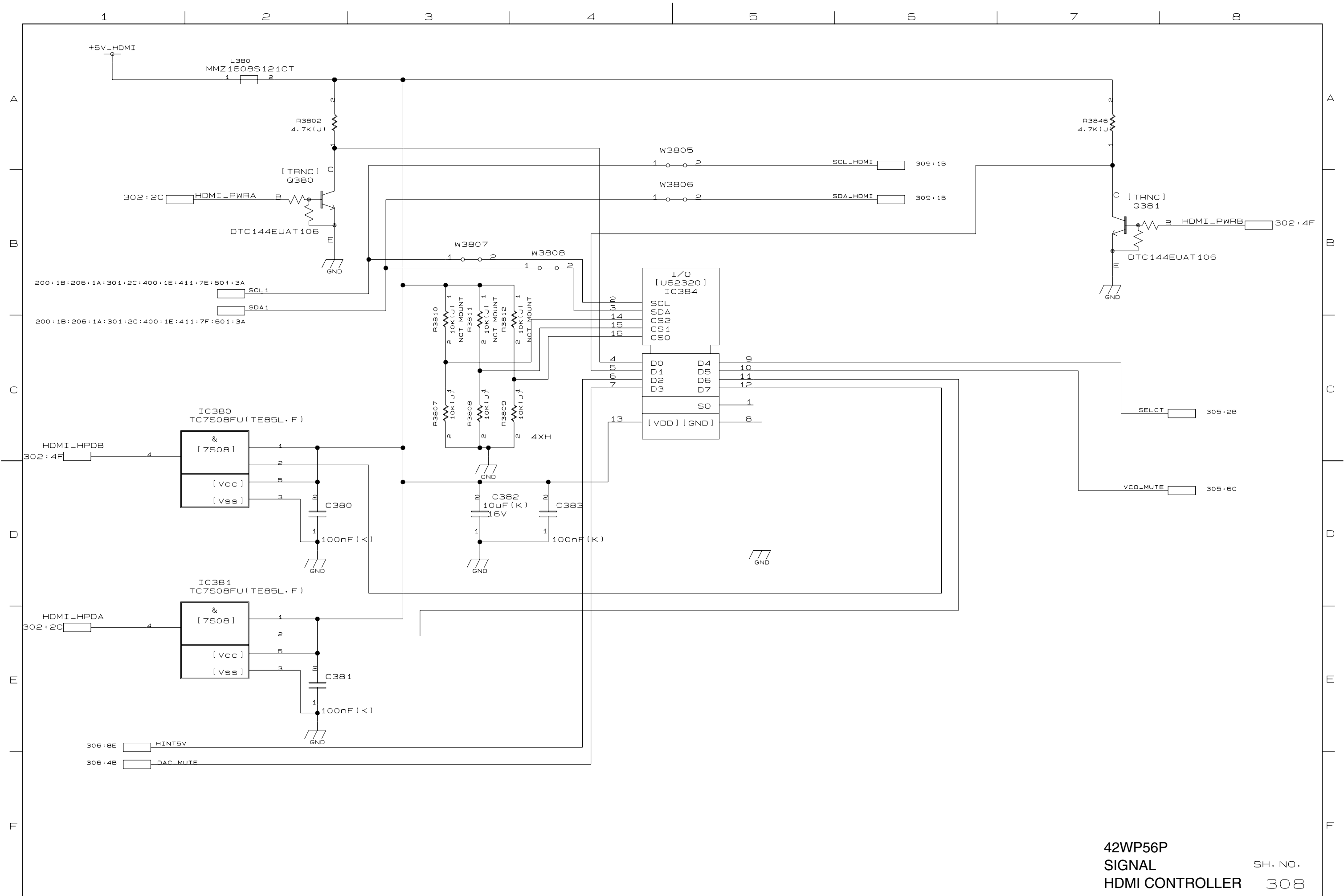
SH. NO.  
305





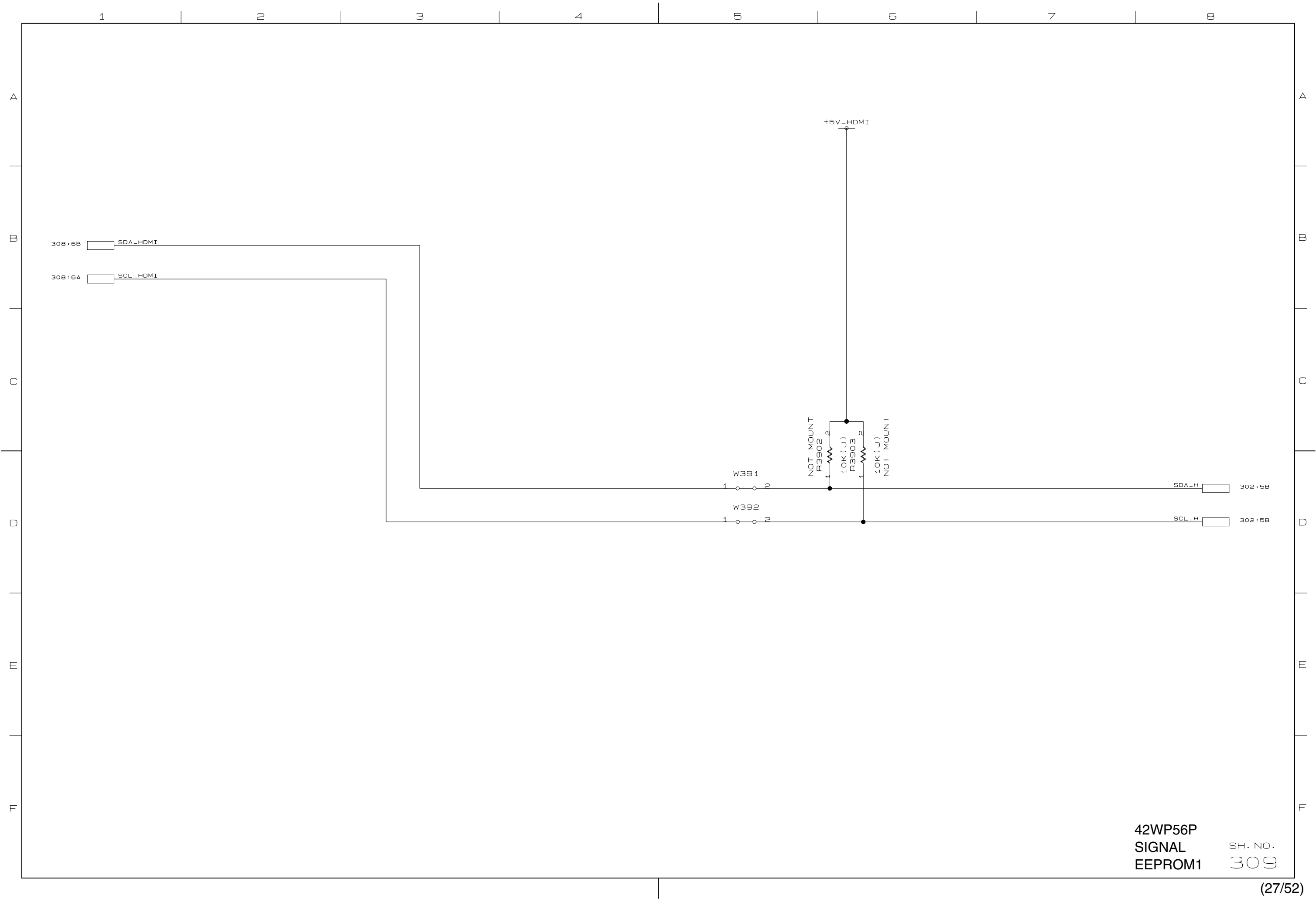
42WP56P  
SIGNAL  
HDMI AUDIO OUT

SH. NO.  
307

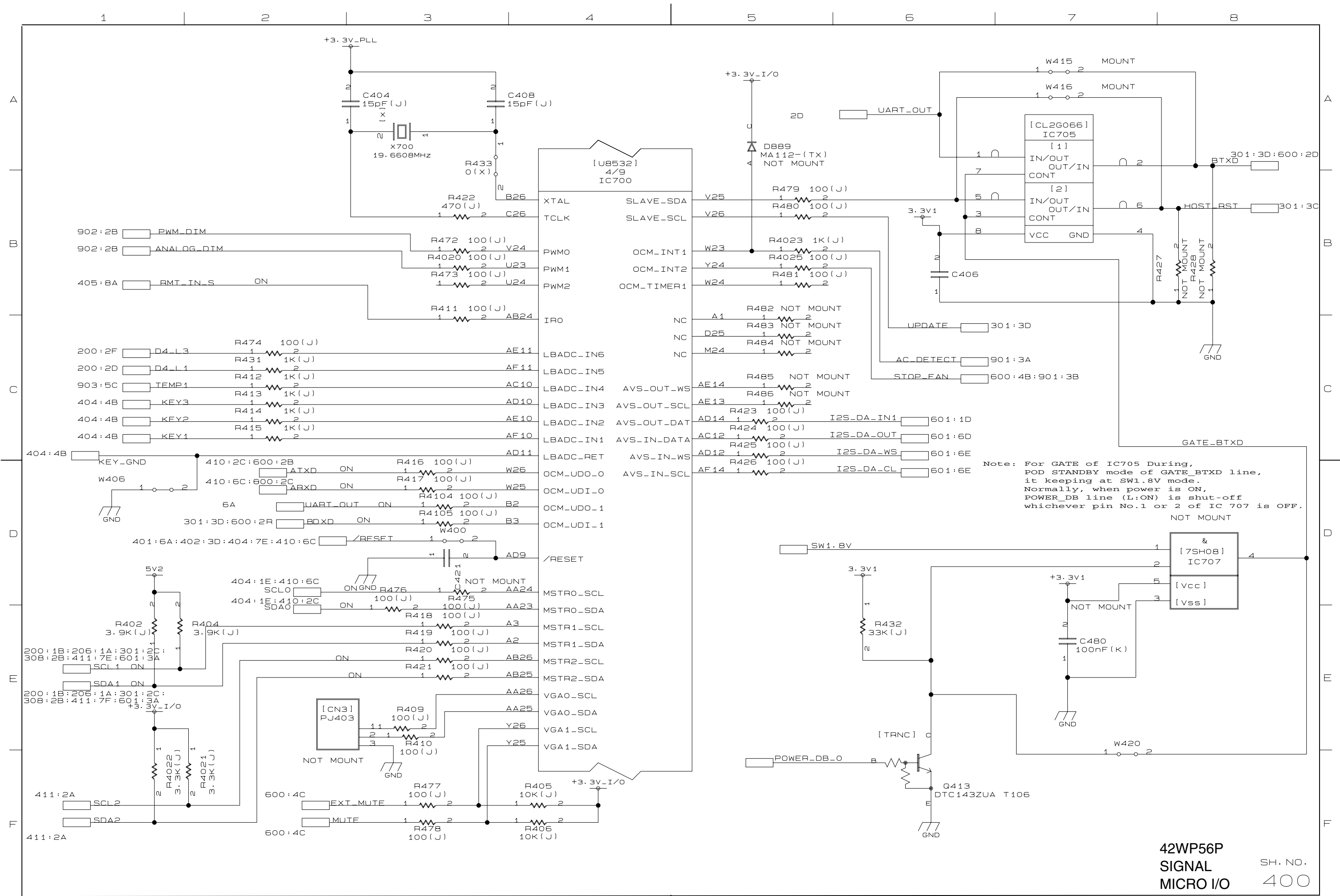


42WP56P  
SIGNAL  
HDMI CONTROLLER

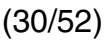
SH. NO.  
308



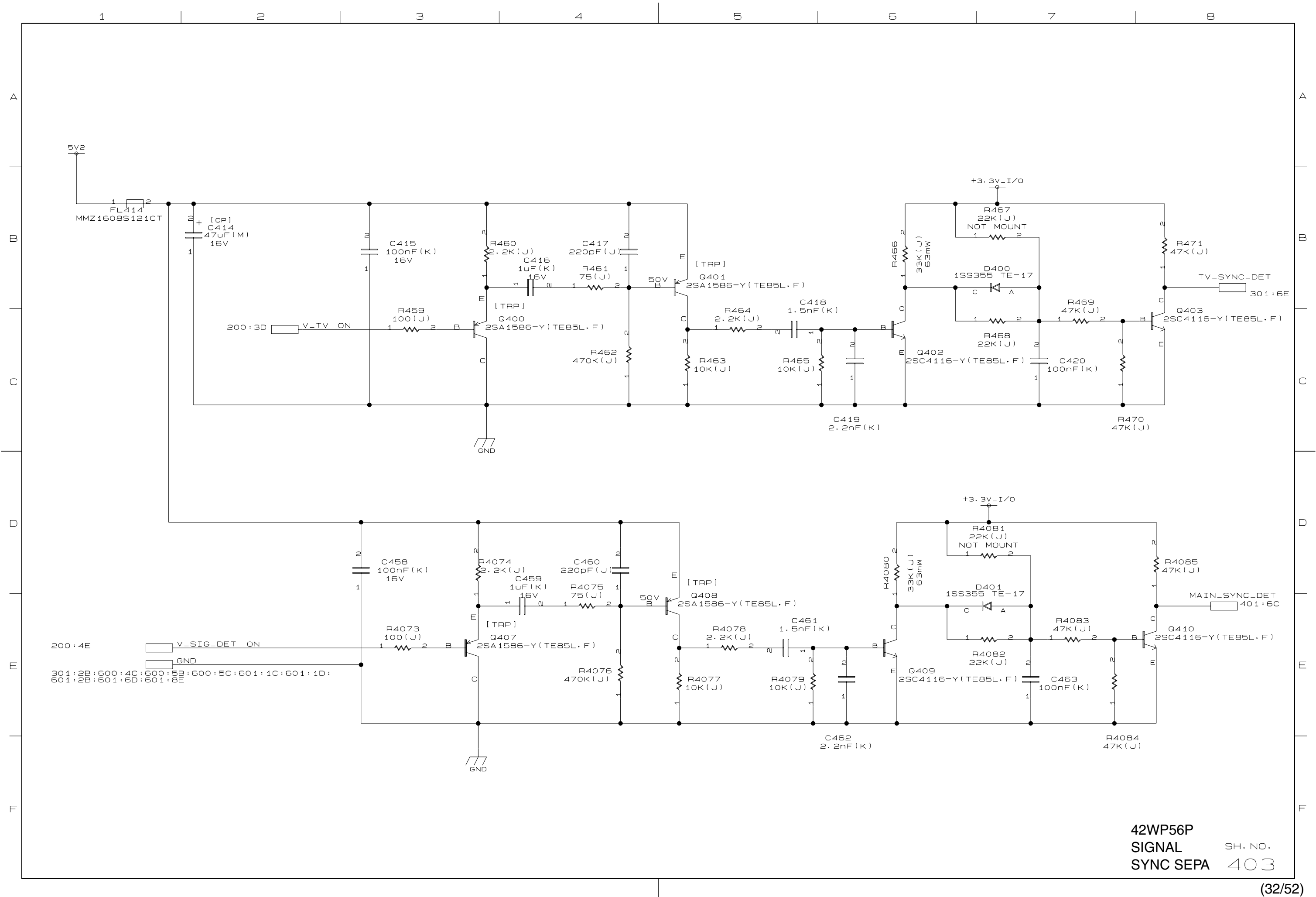


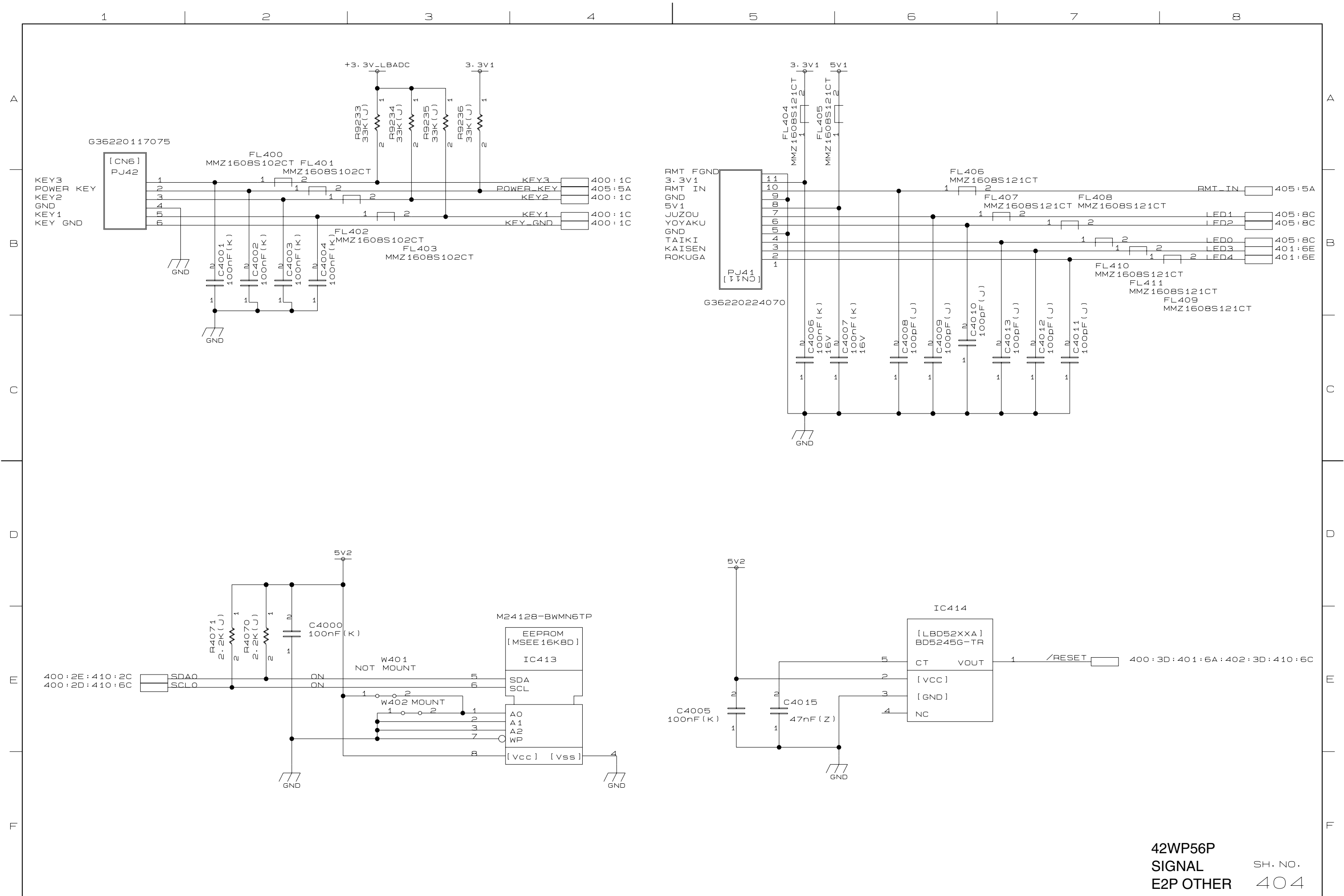


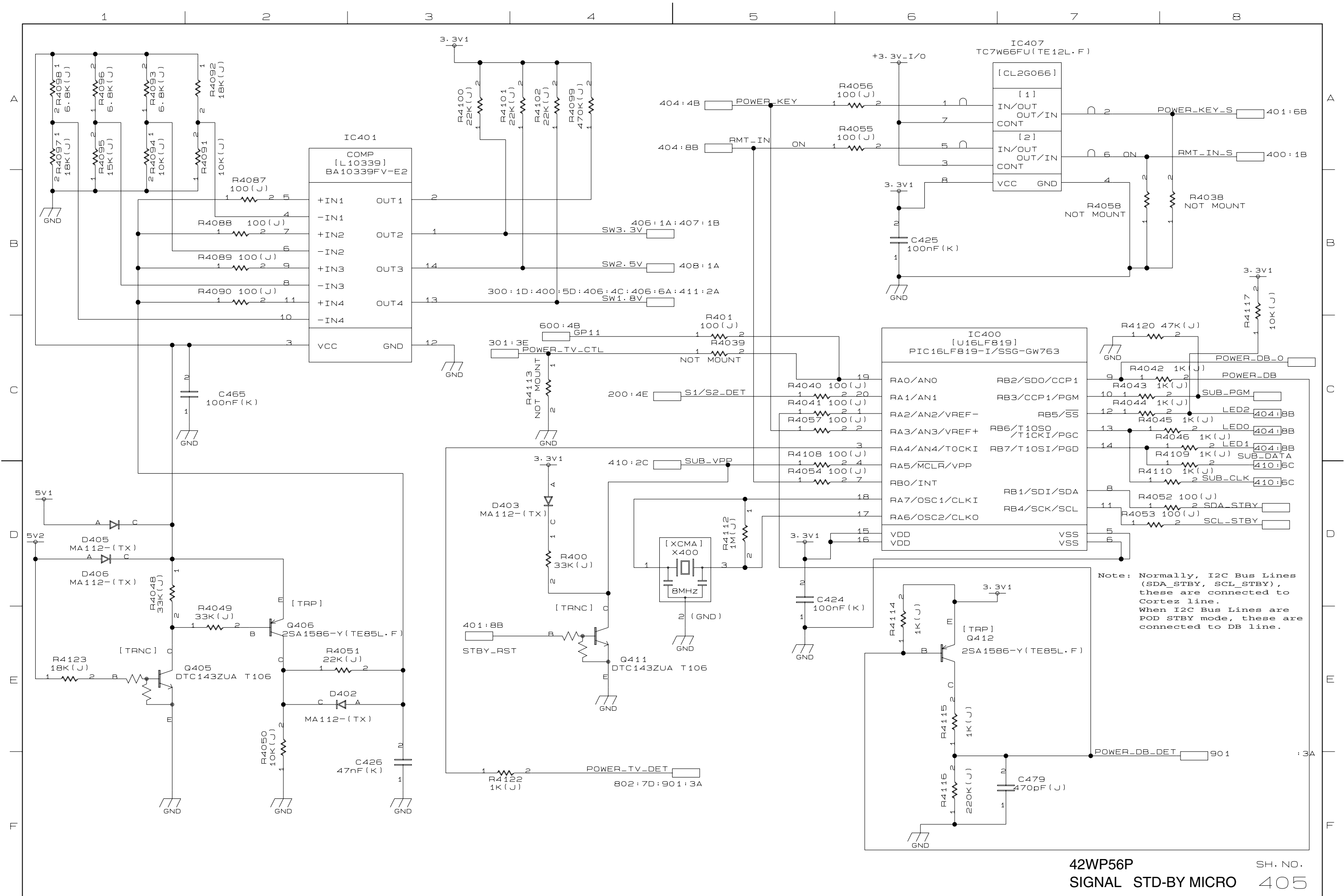






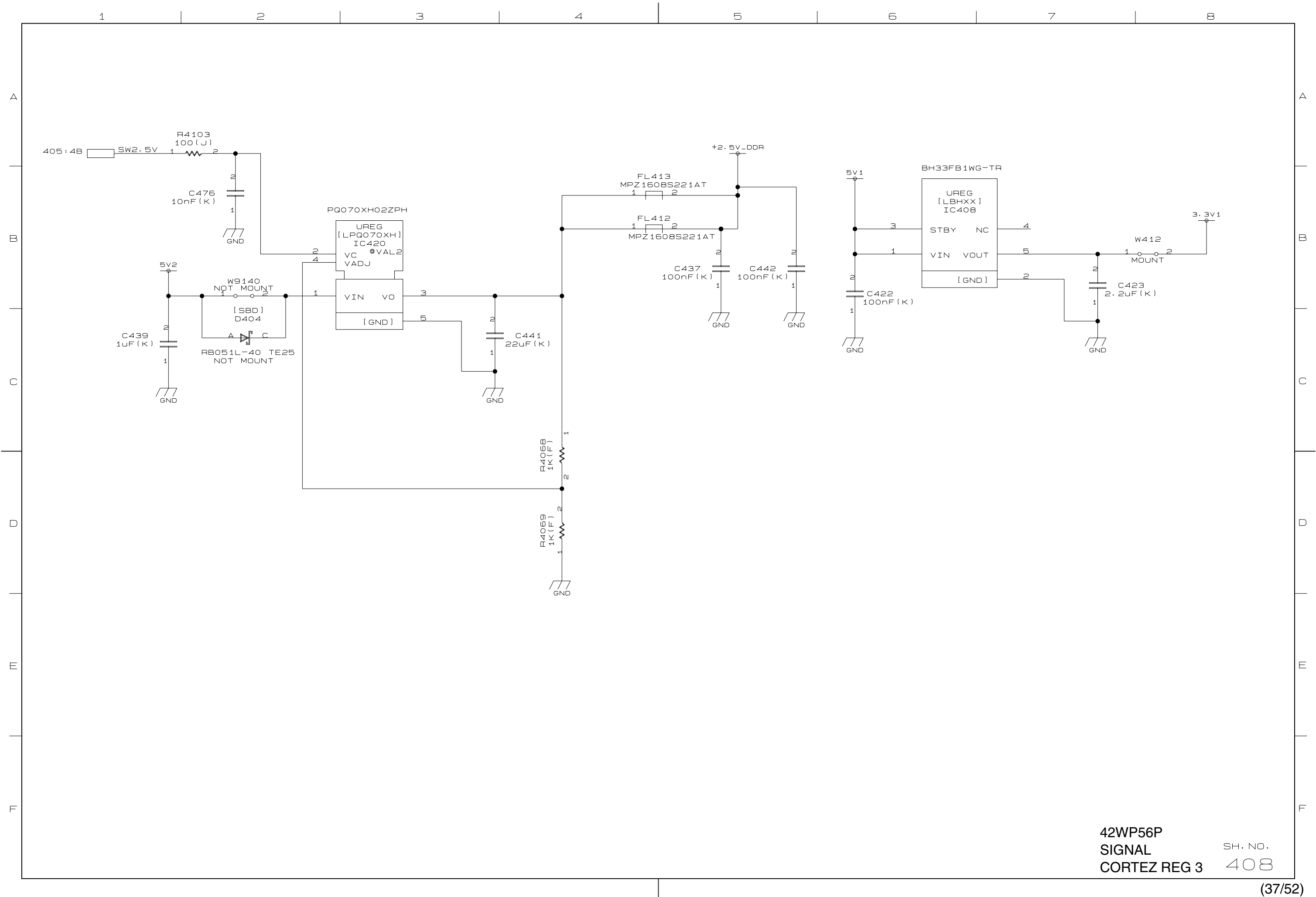








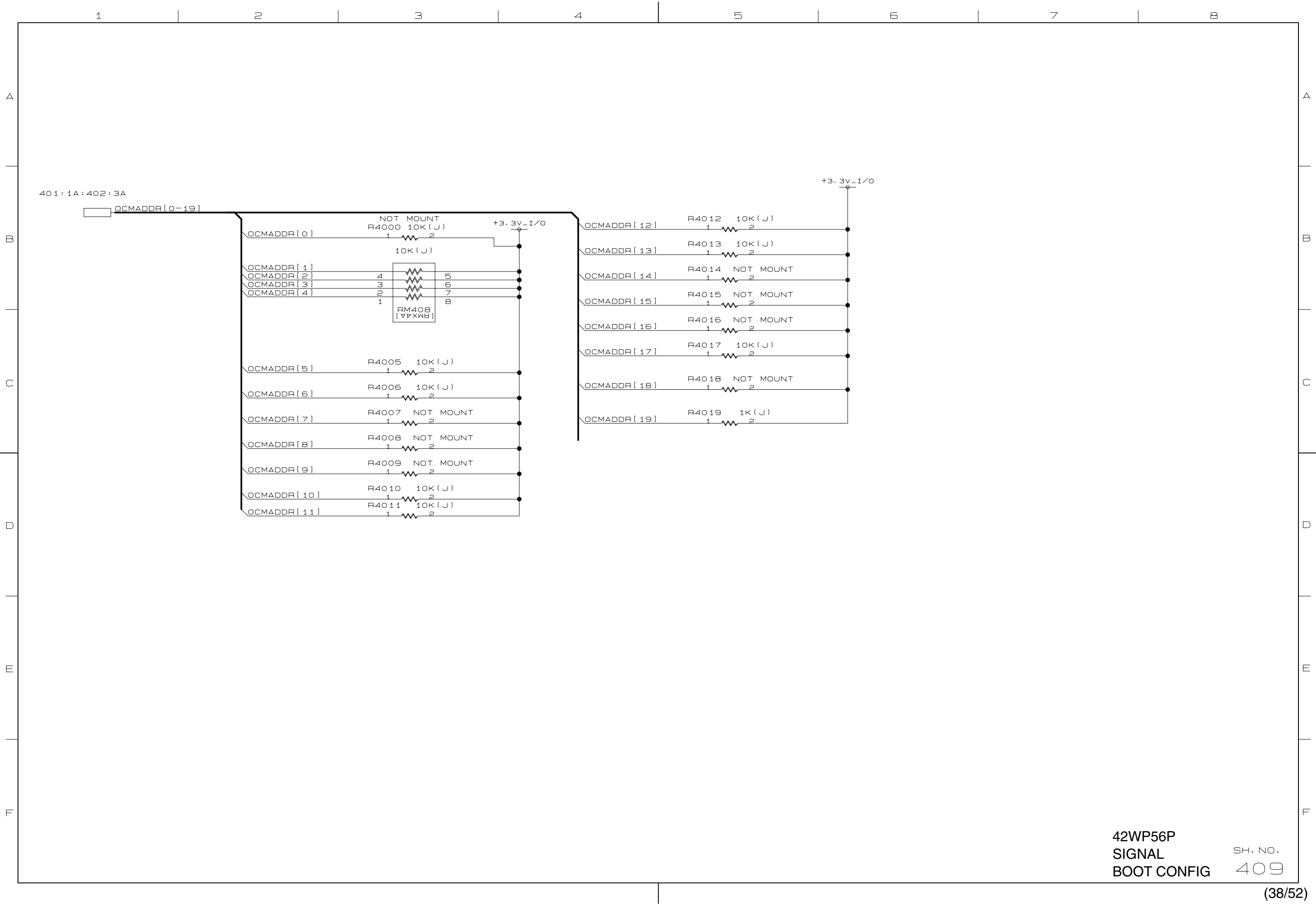


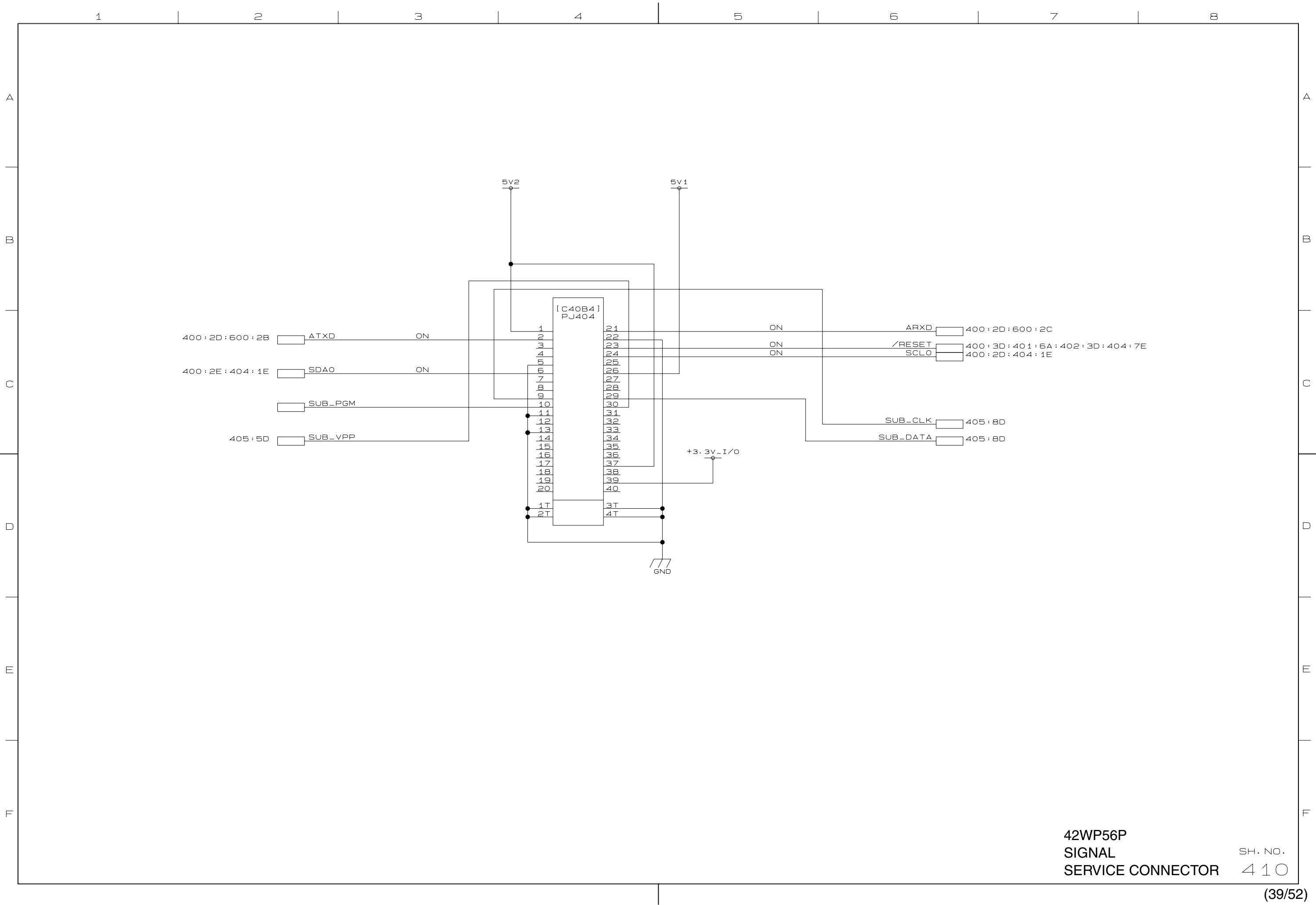


42WP56P  
SIGNAL  
CORTEZ REG 3

SH. NO.  
408

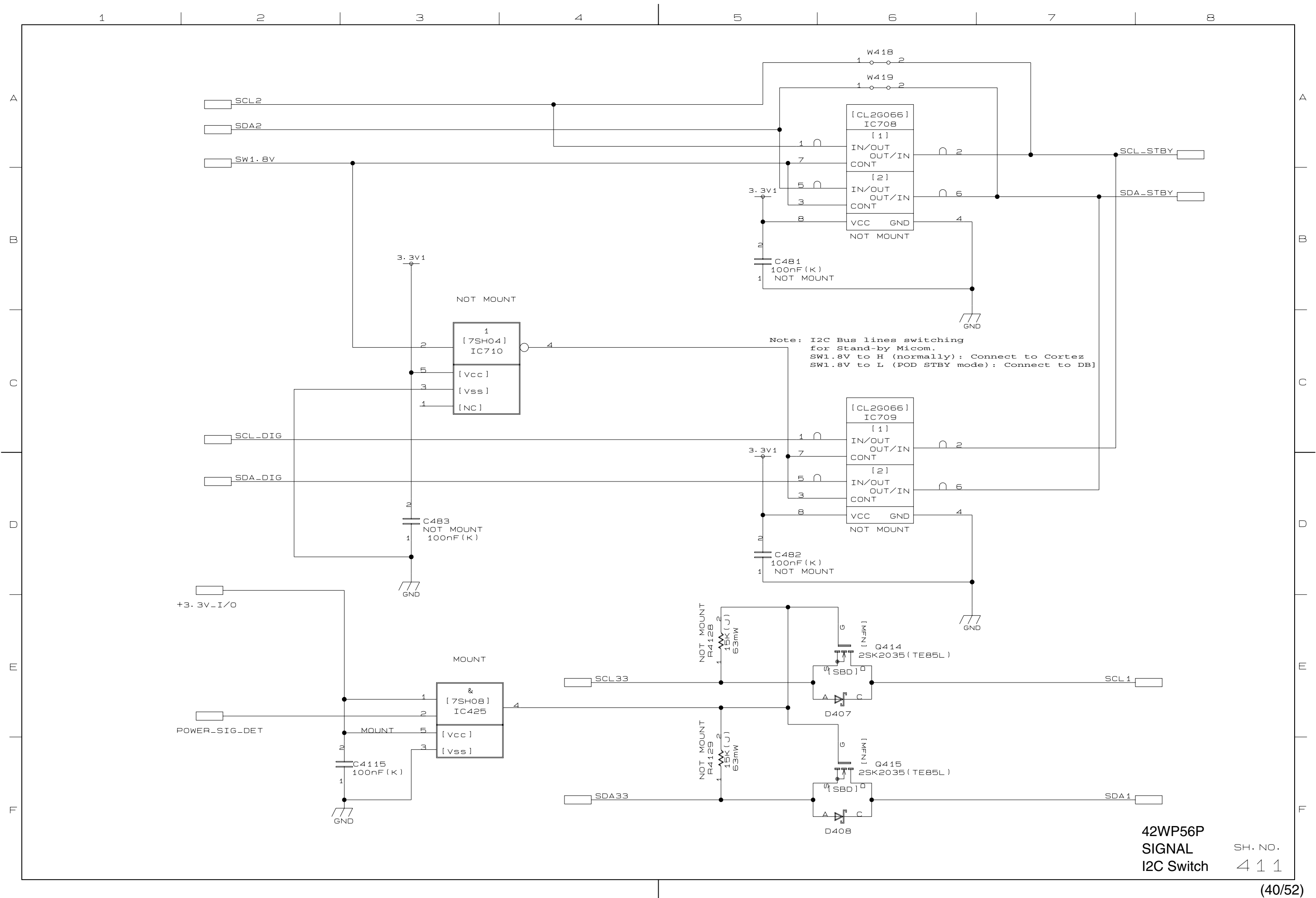


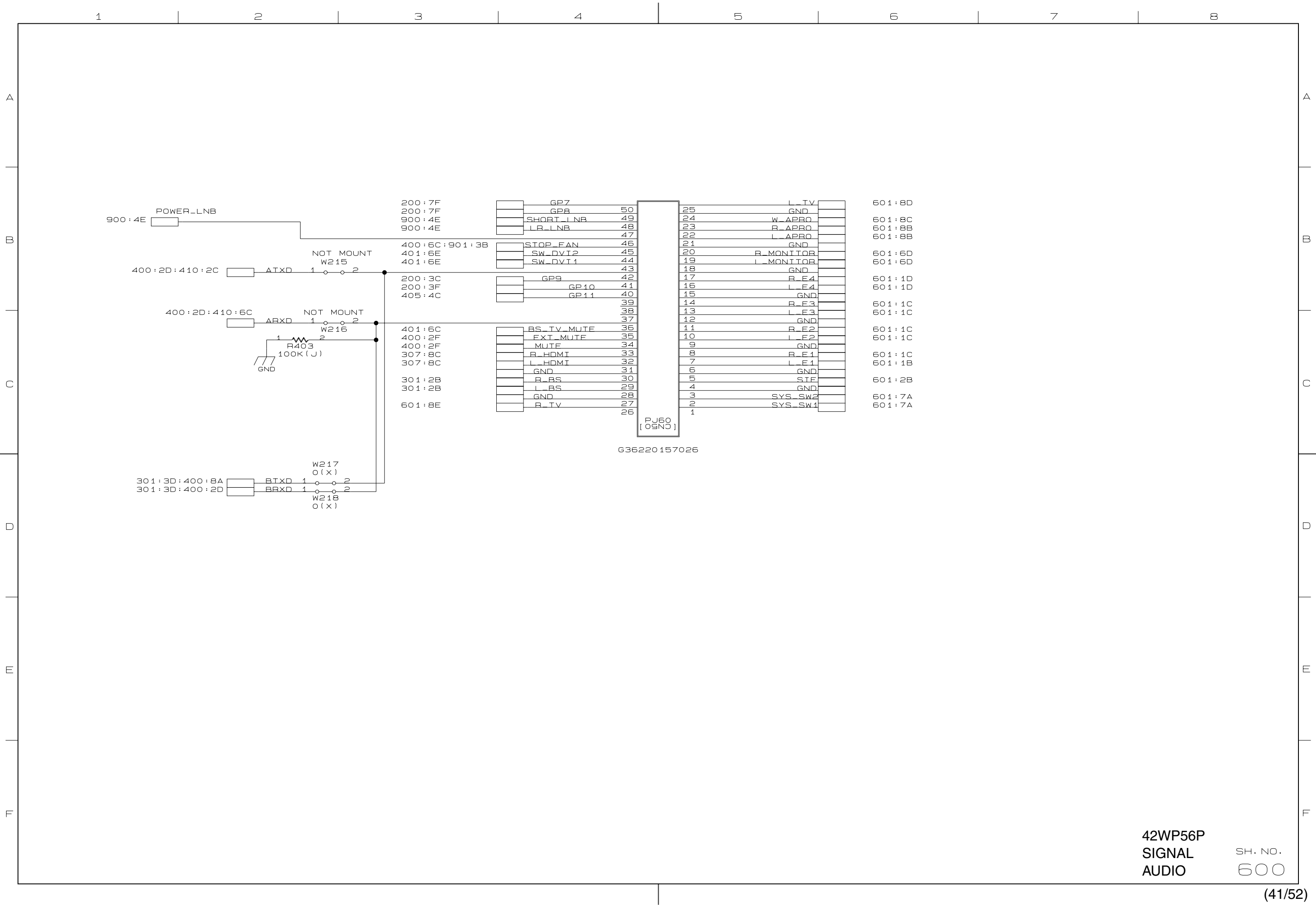


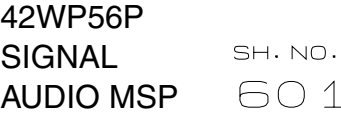


42WP56P  
SIGNAL  
SERVICE CONNECTOR

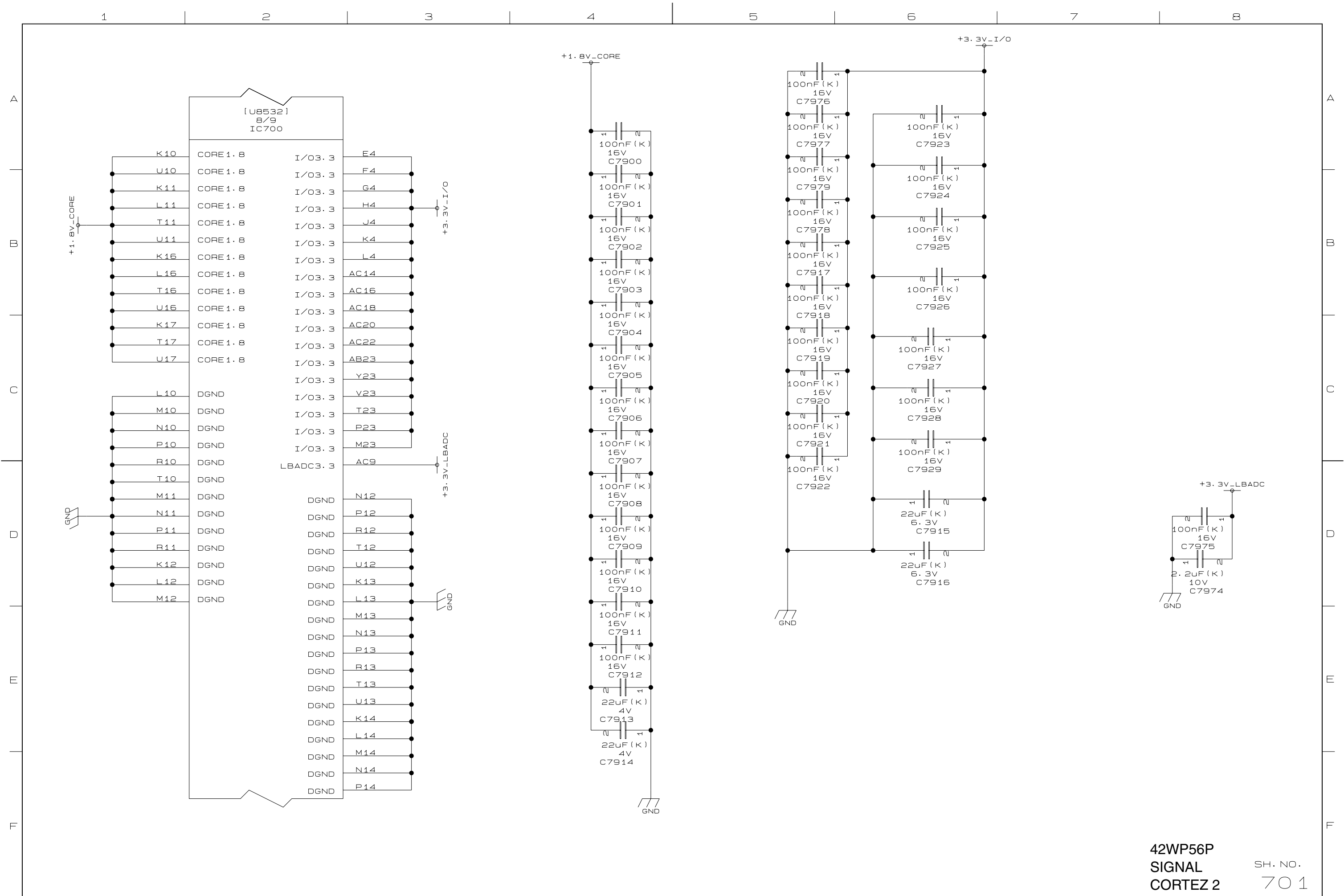
SH. NO.  
410





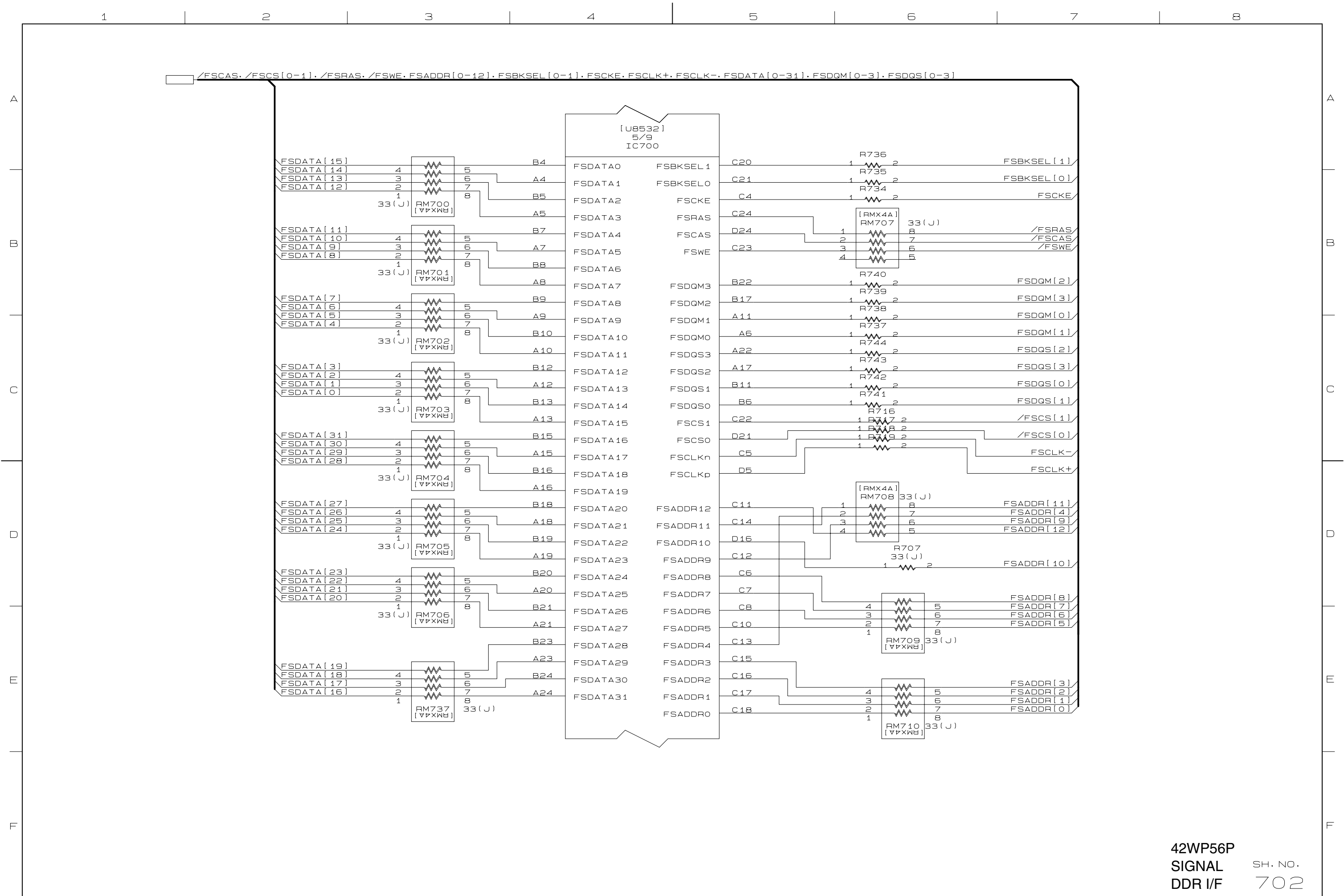




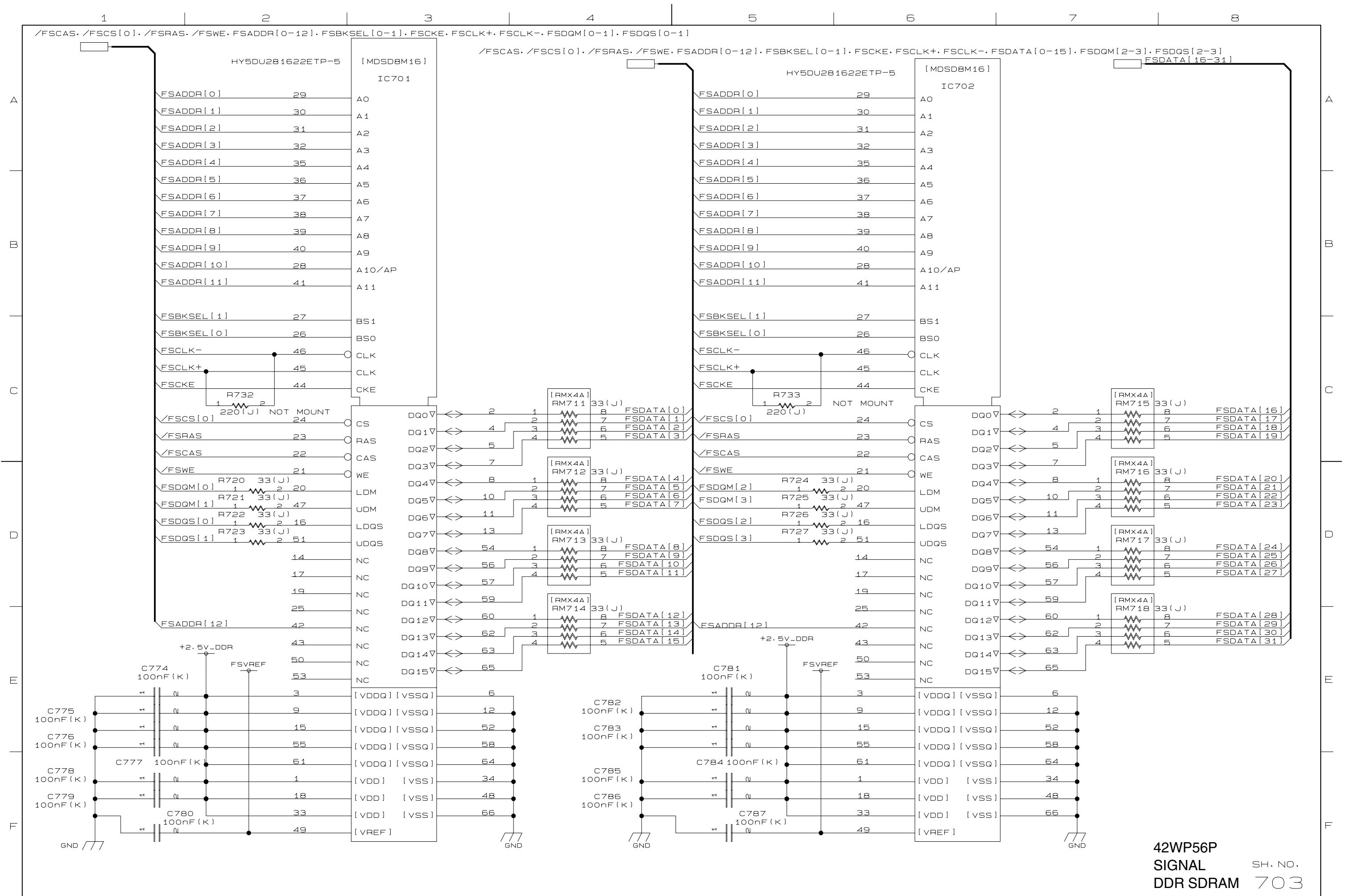


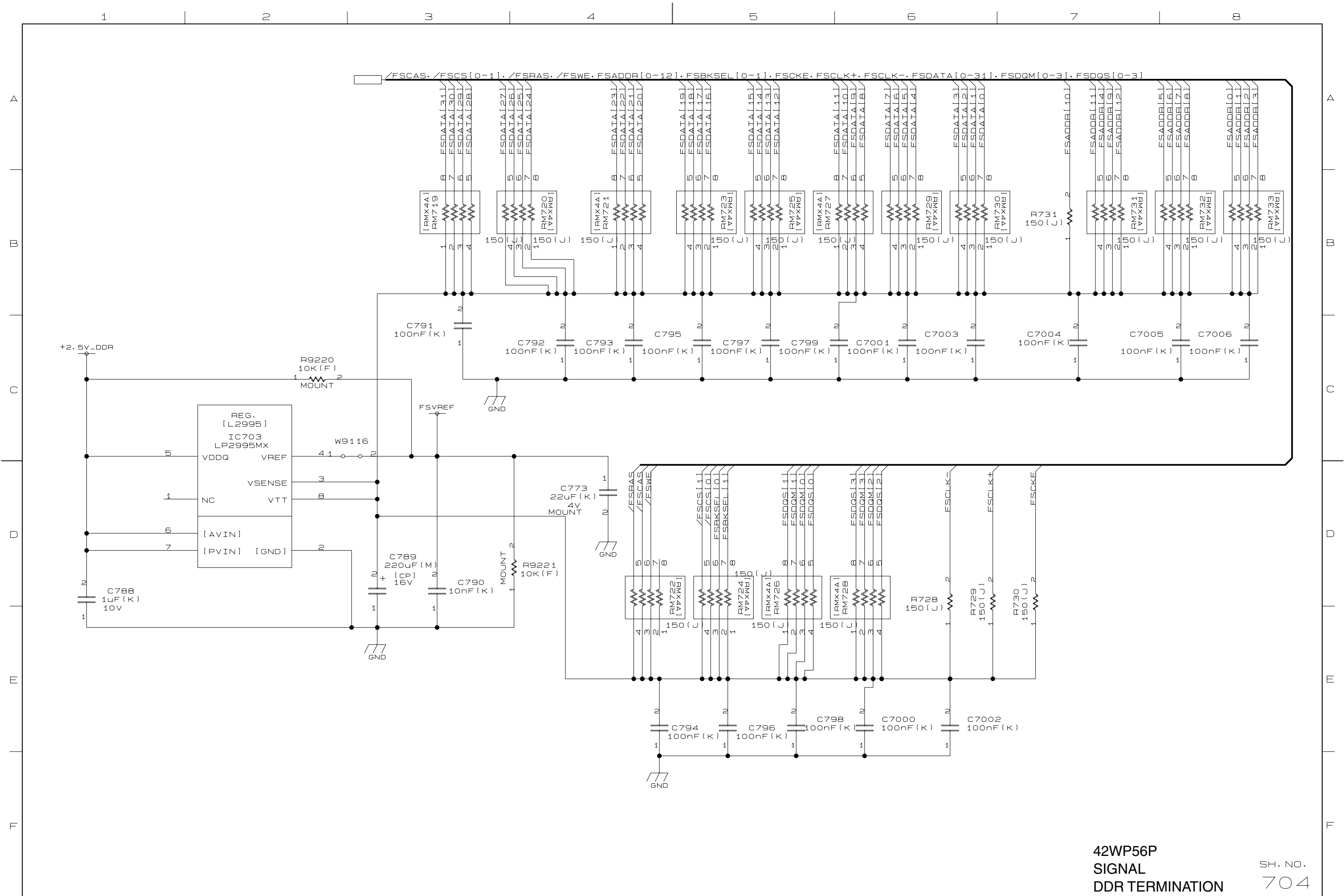
42WP56P  
SIGNAL  
CORTEZ 2

SH. NO.  
701



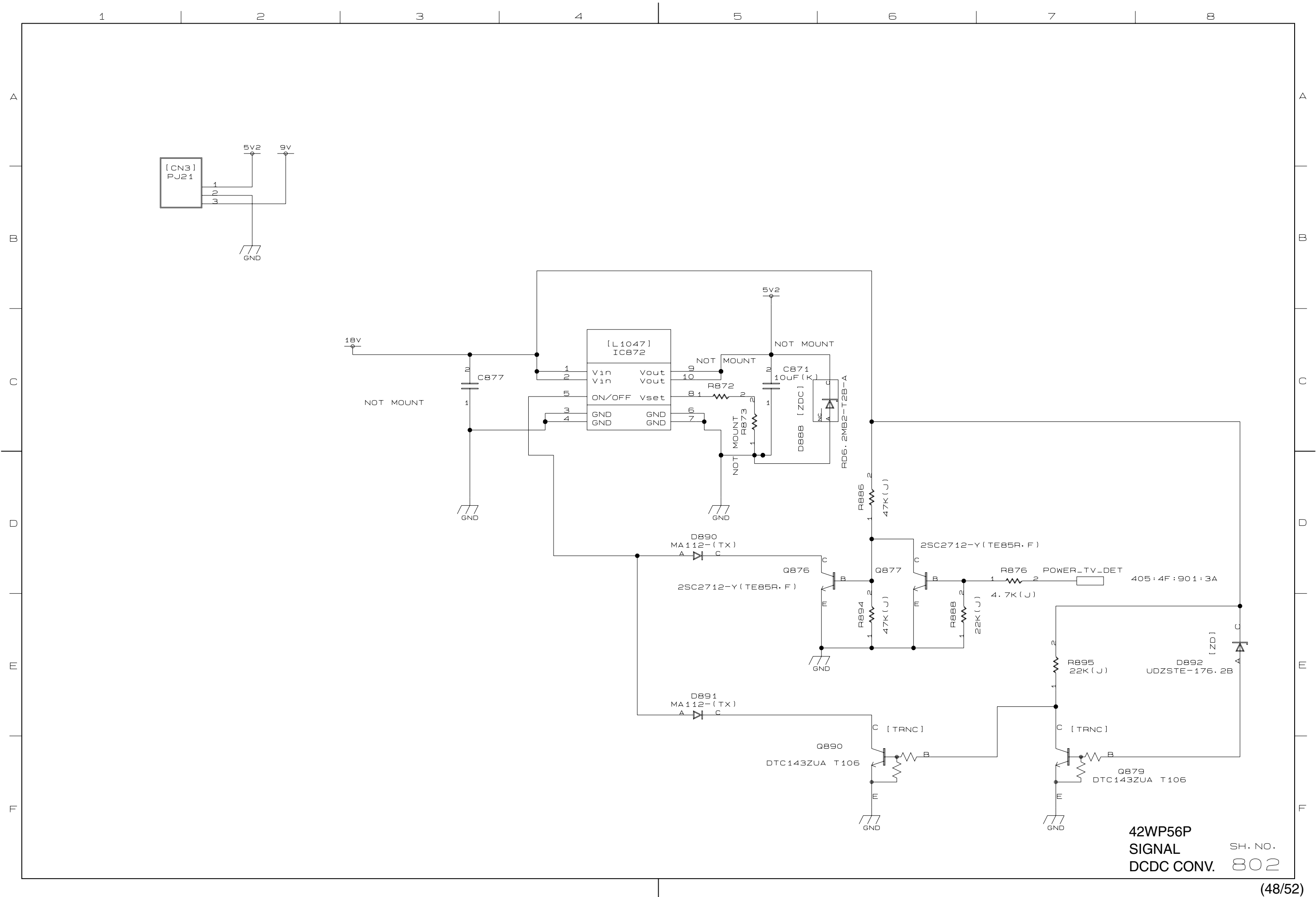


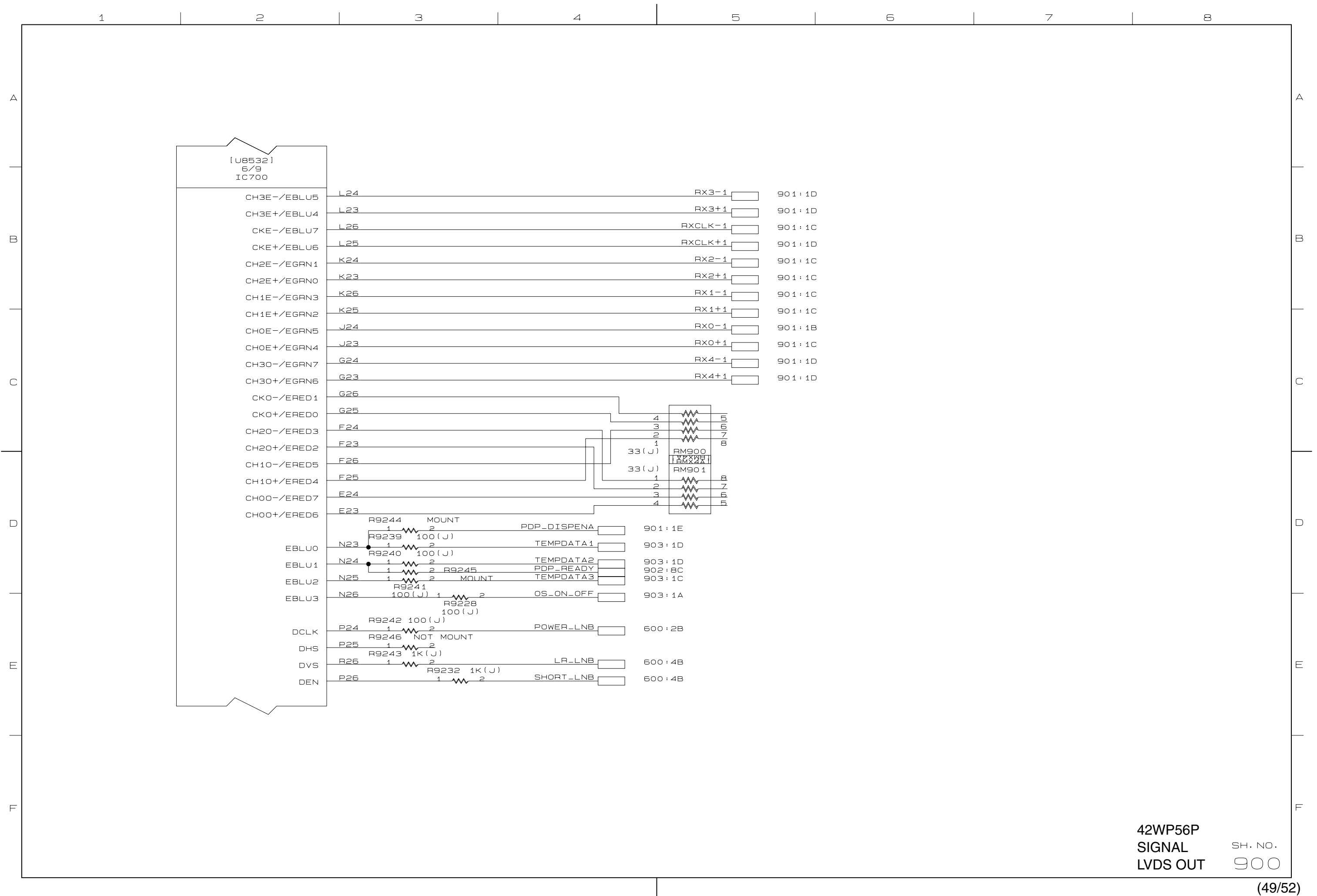


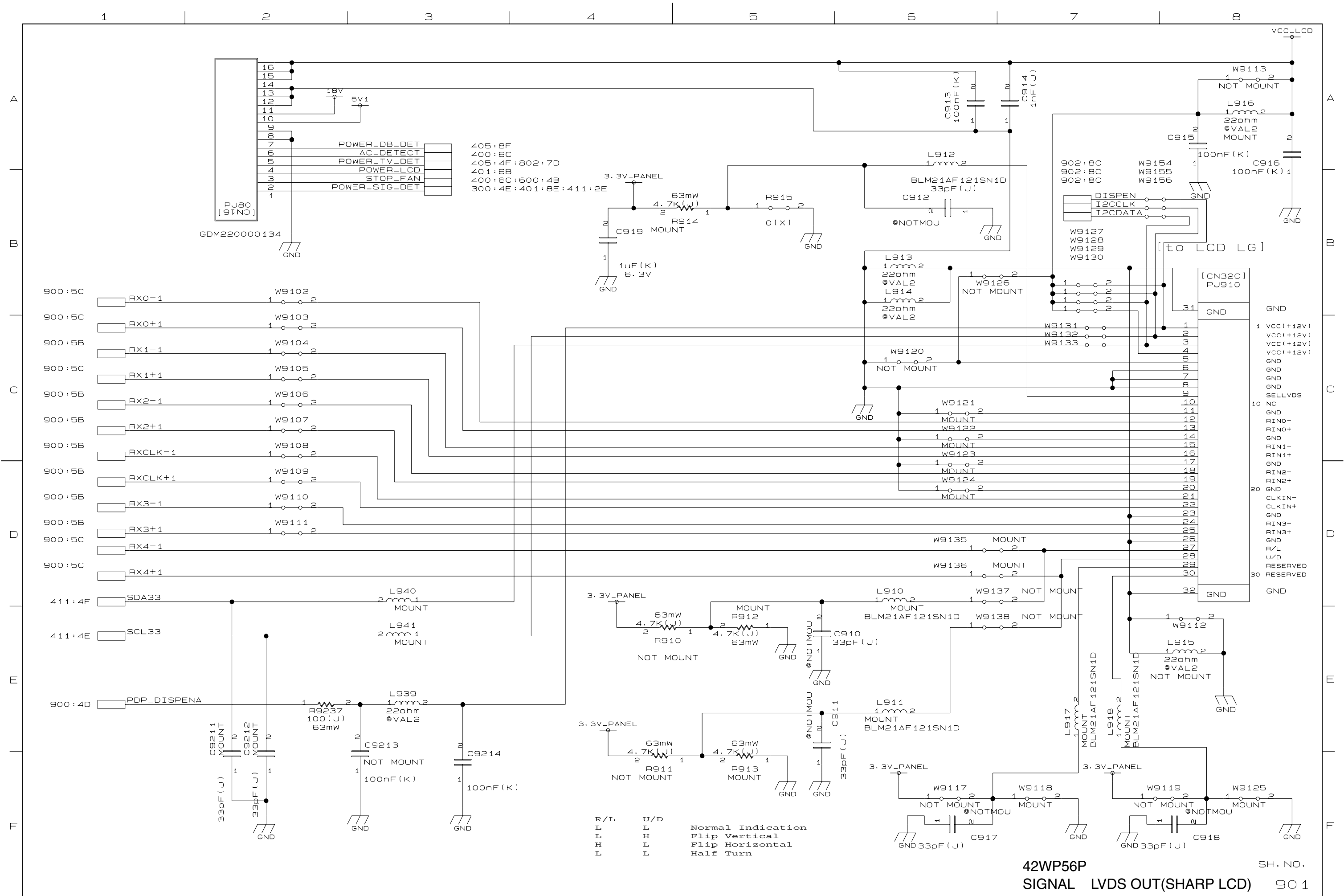


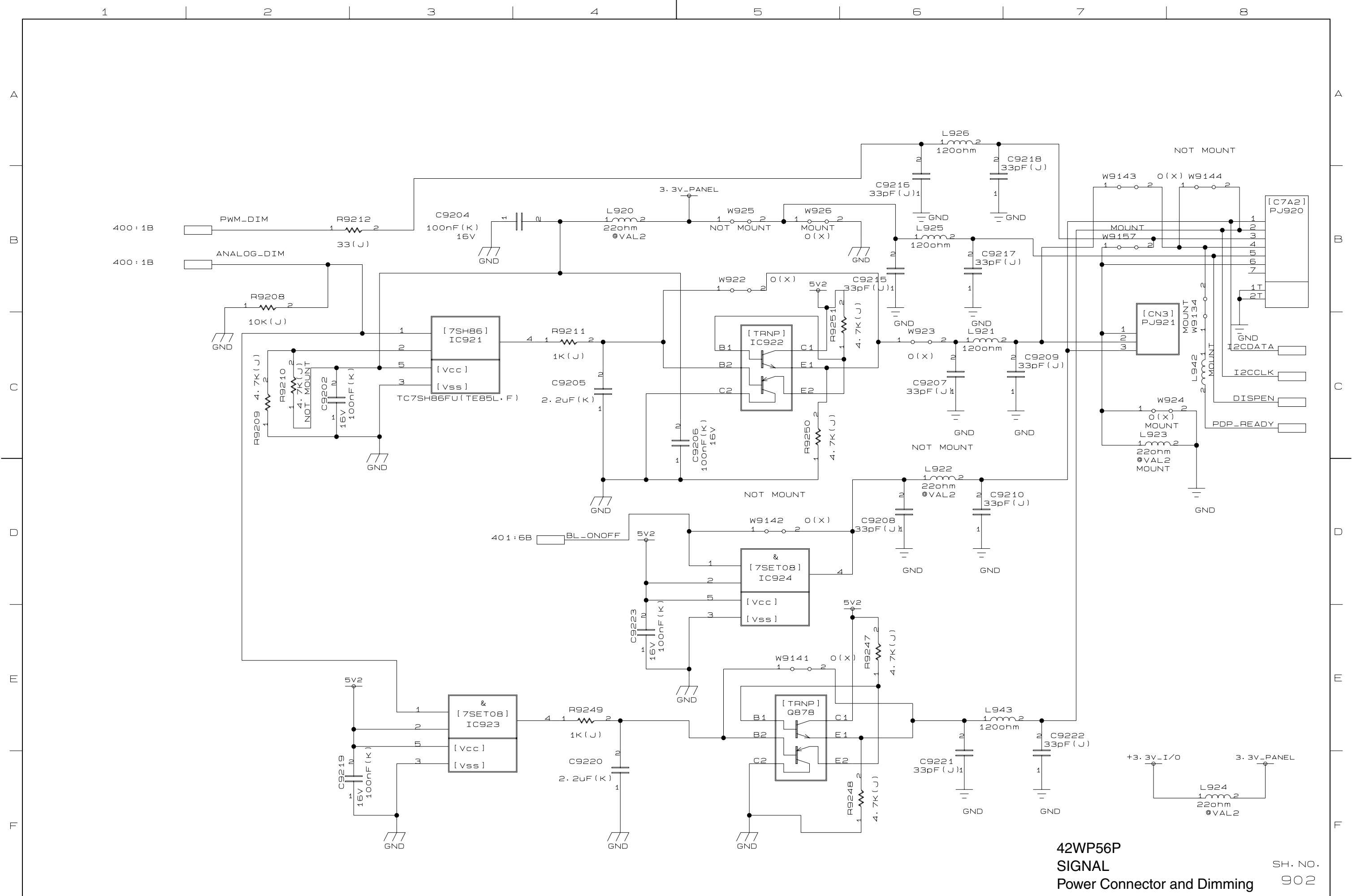
42WP56P  
SIGNAL  
DDR TERMINATION

SH. NO.  
704

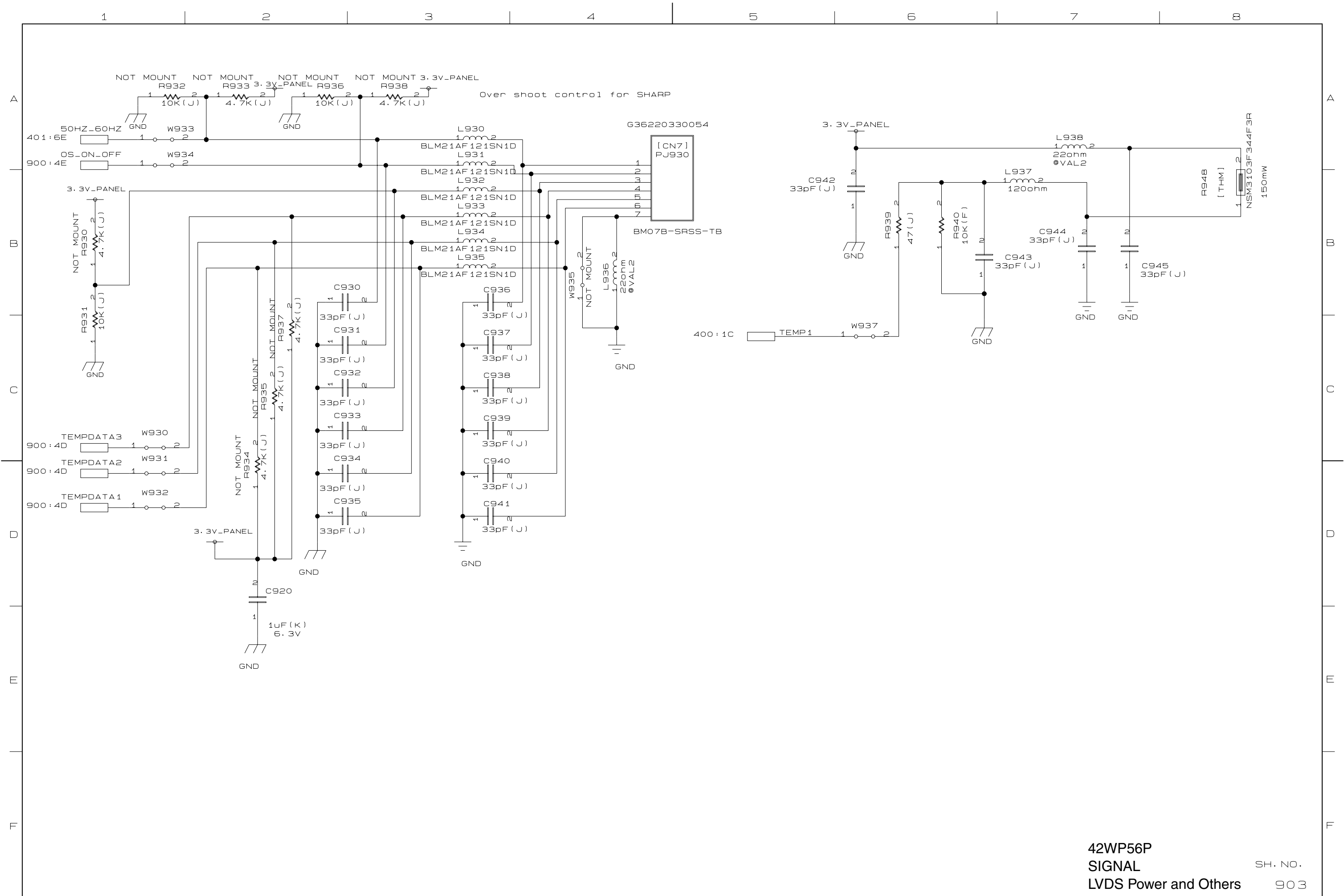








SH. NO.  
902



42WP56P  
SIGNAL  
LVDS Power and Others

SH. NO.  
903