

TOSHIBA

FILE NO. 020-200422

CIRCUIT DIAGRAMS

LCD Color TV

32HLX84

SCHEMATIC DIAGRAM

MODEL : 32HLX84

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols " Δ " 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 PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

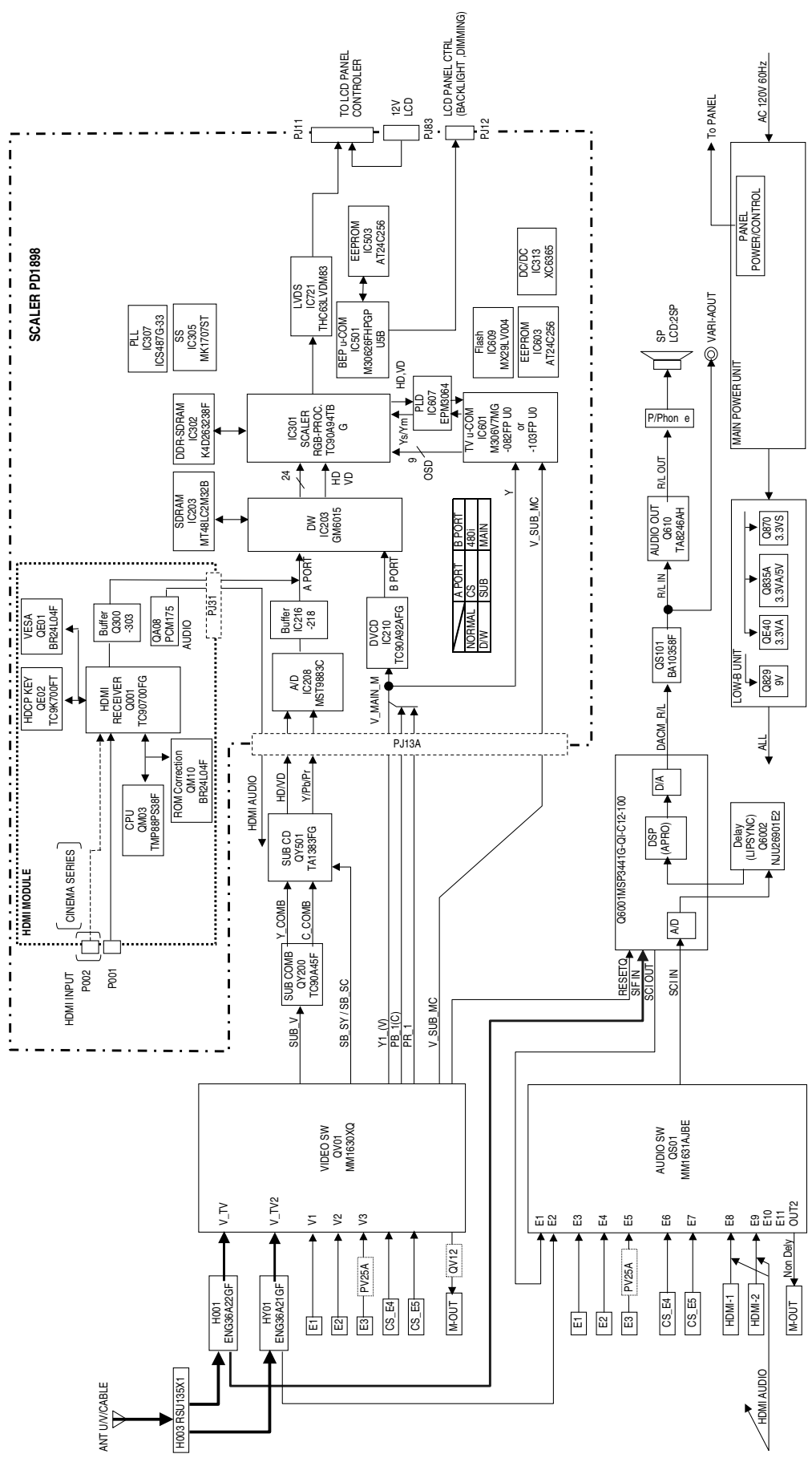
NOTE:

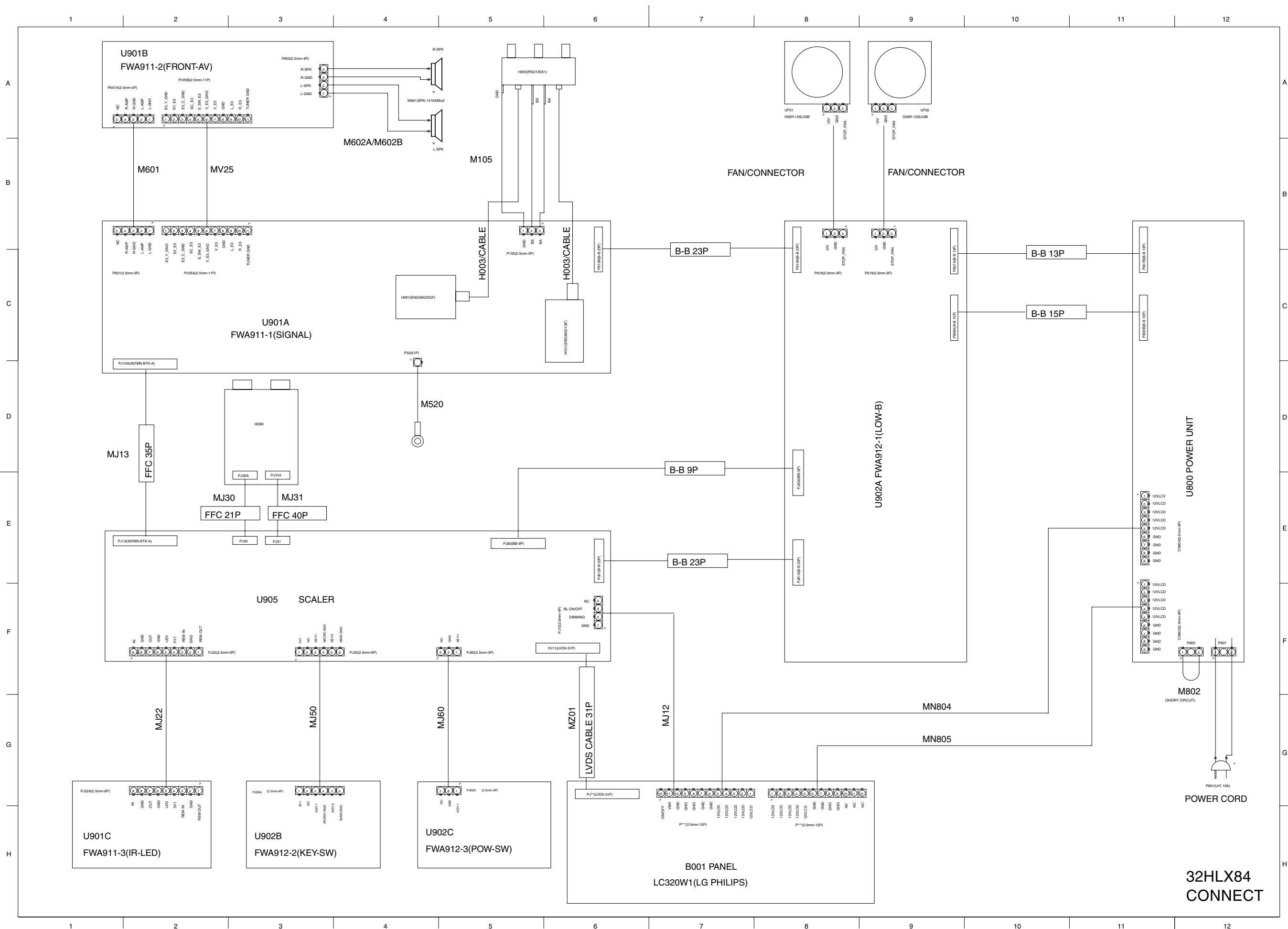
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon composition of 1/2 watt
1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
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 μF , 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 " Δ " 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:

CONNECT		1/60
SIGNAL	CONNECTOR [SHEET-1/9]	2/60
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	MSP+LIPSYNC [SHEET-3/9]	4/60
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	(2/2) [SHEET-2/2]	12/60
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POWER SW		14/60
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	3chADC MST9883C-LF-110 [SHEET-205]	22/60
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	LCD DIMMING [SHEET-810]	59/60
	CONNECTORS FOR SHARP PANEL [SHEET-811]	60/60

BLOCK DIAGRAM



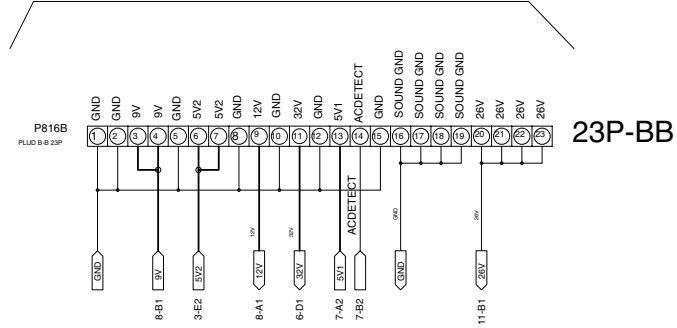


1 2 3 4 5 6 7 8

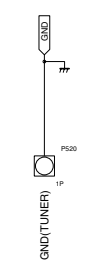
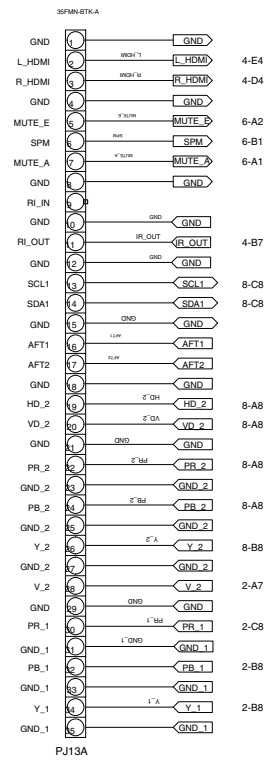
A B C D E F

LOWB

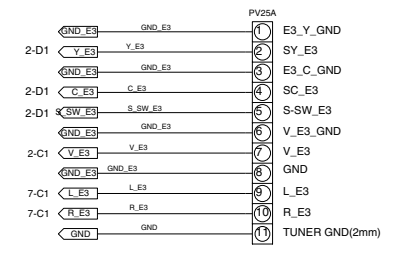
CONNECTOR



35P-FFC

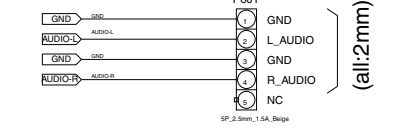


11P



FRONT-AV

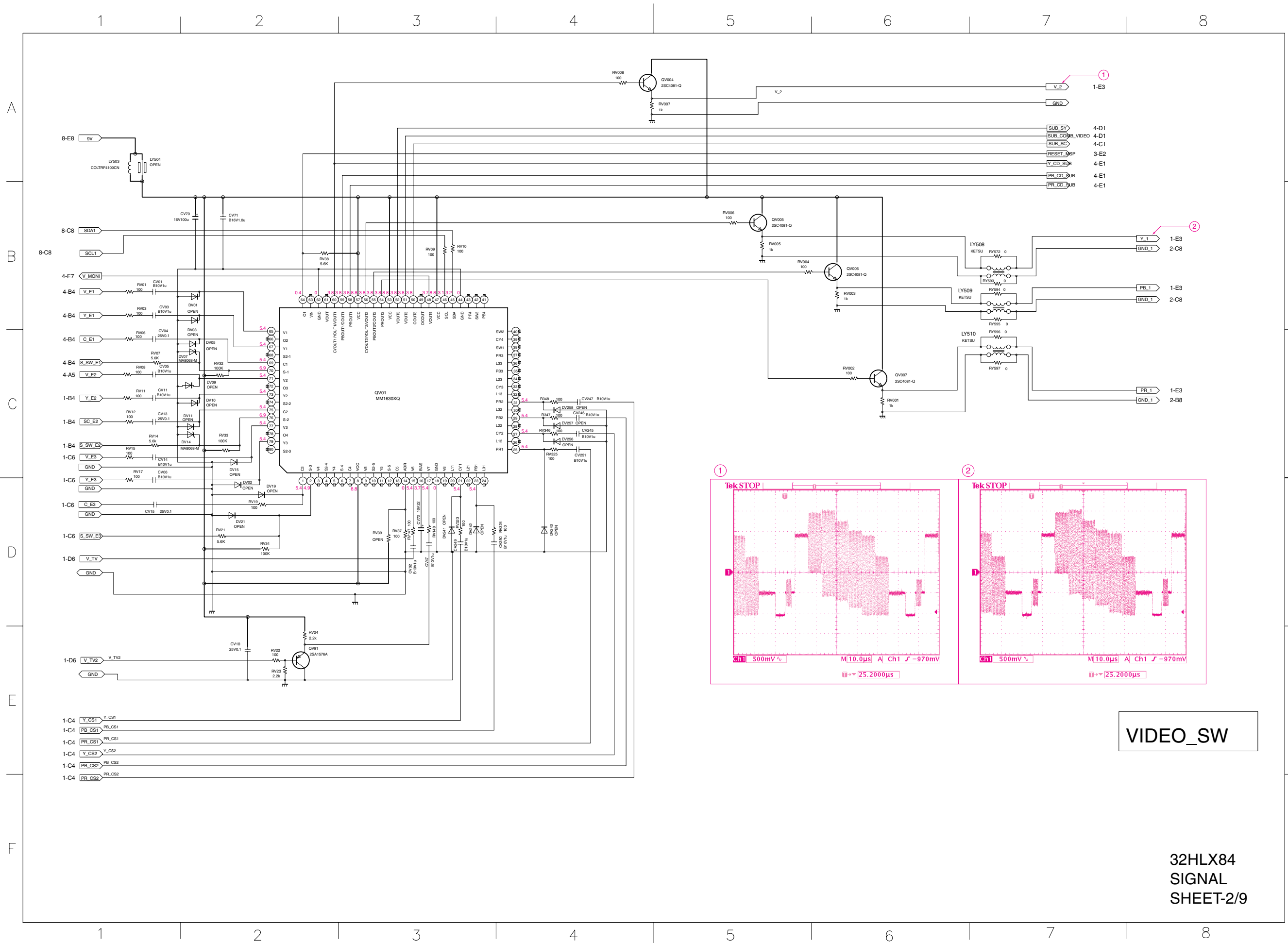
5P



SCALER

32HLX84
SIGNAL
SHEET-1/9

1 2 3 4 5 6 7 8



VIDEO_SW

32HLX84
SIGNAL
SHEET-2/9

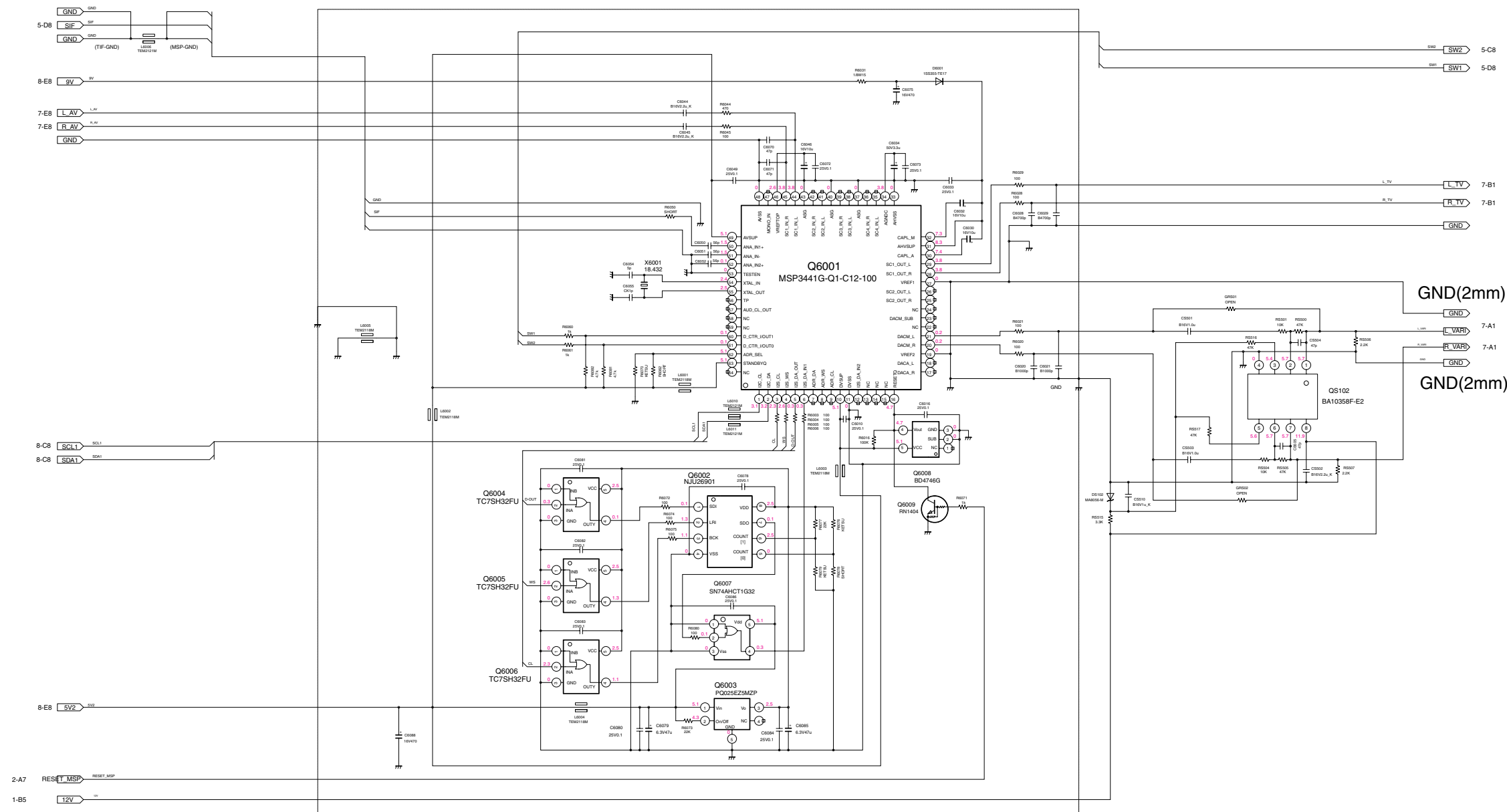
1 2 3 4 5 6 7 8

A
B
C
D
E
F

MSP+LipSync

MSP

LipSync



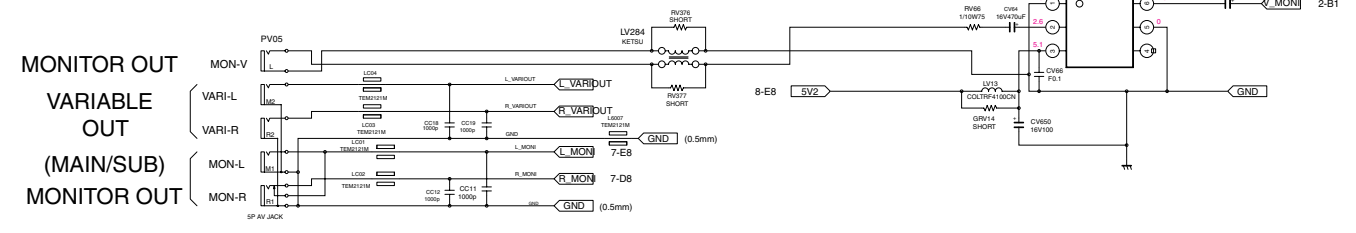
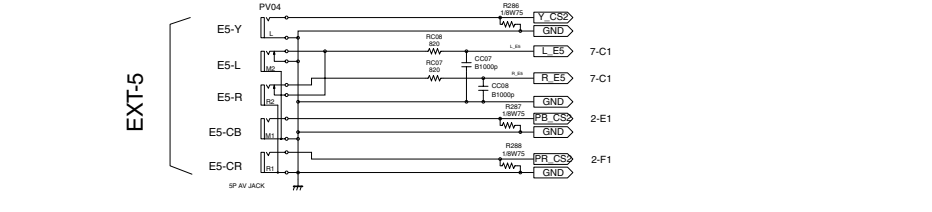
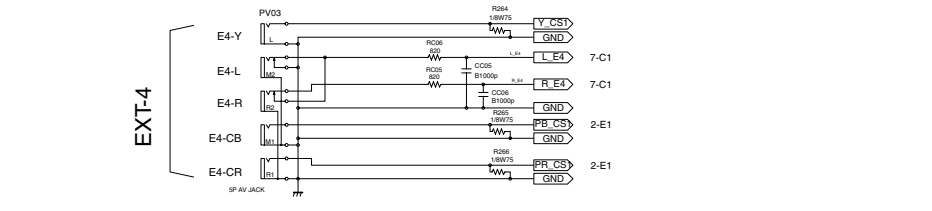
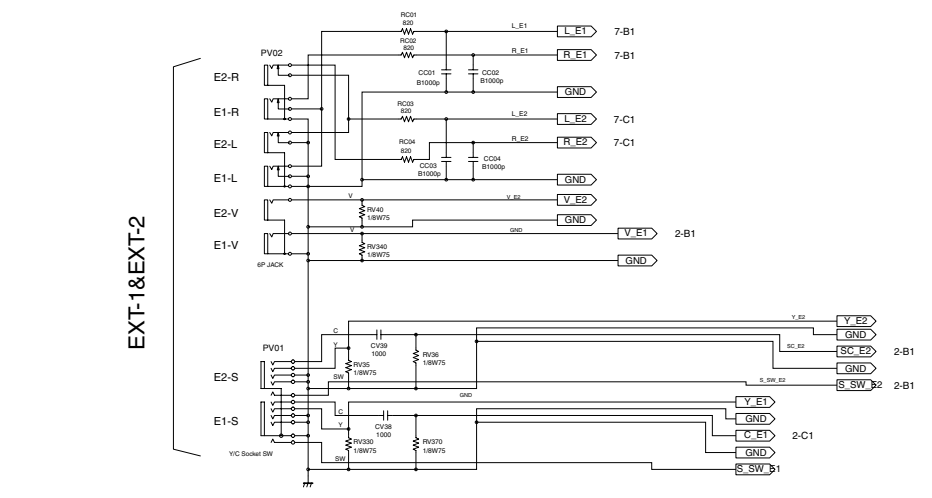
32HLX84
SIGNAL
SHEET-3/9

1 2 3 4 5 6 7 8

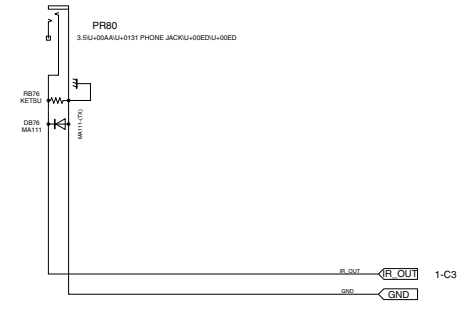
1 2 3 4 5 6 7 8

A
B
C
D
E
F

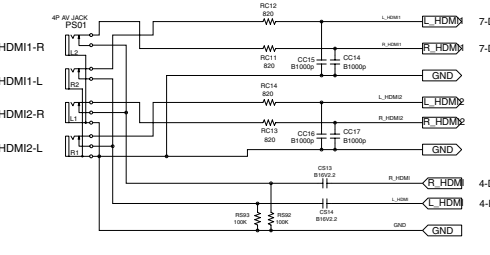
BACK-AV



IR-OUT

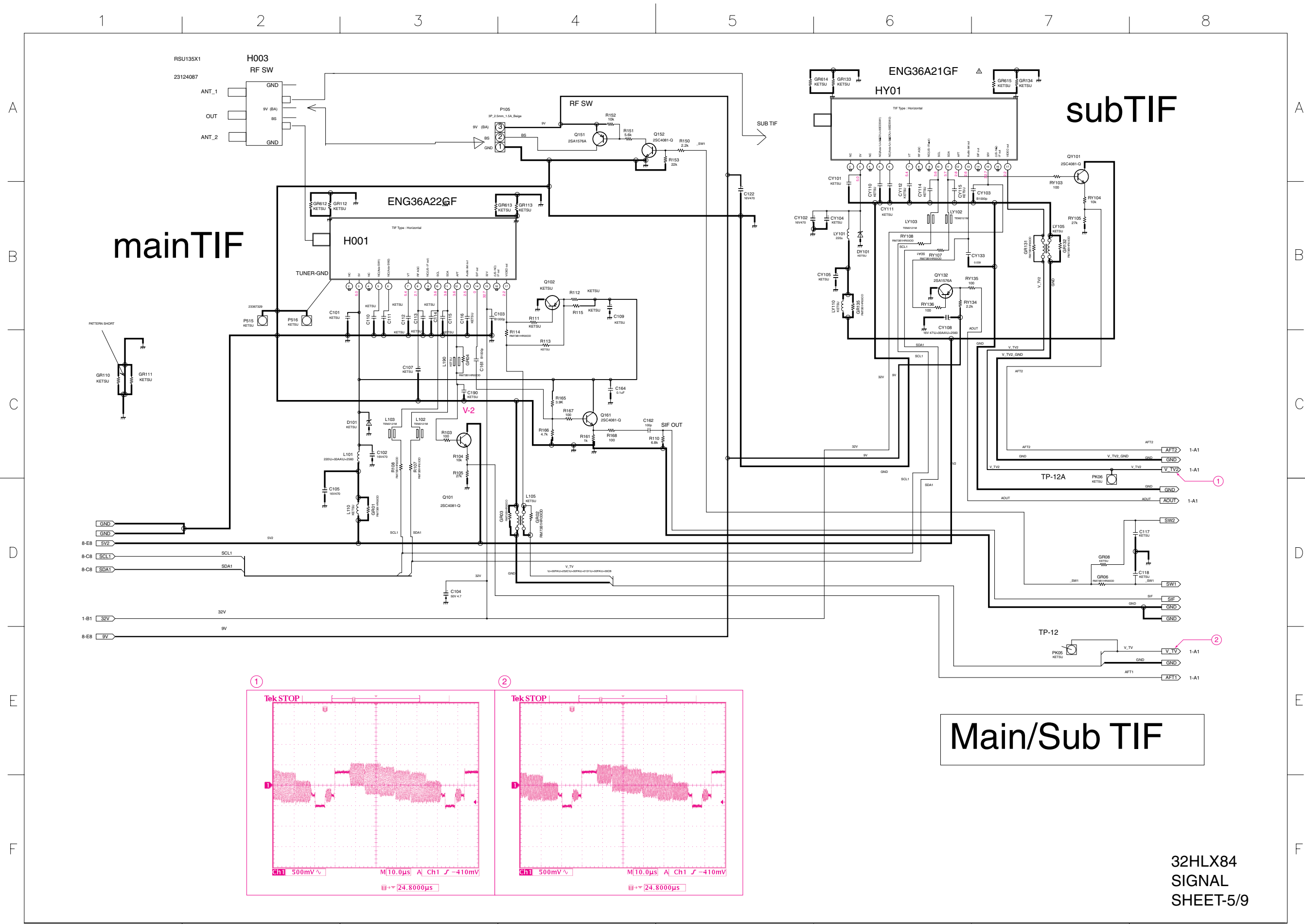


HDMI



32HLX84
SIGNAL
SHEET-4/9

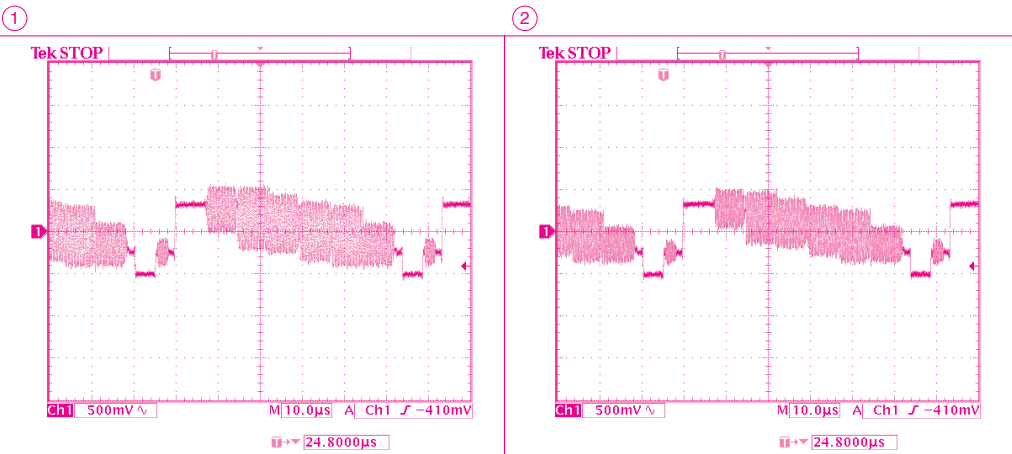
1 2 3 4 5 6 7 8



mainTIF

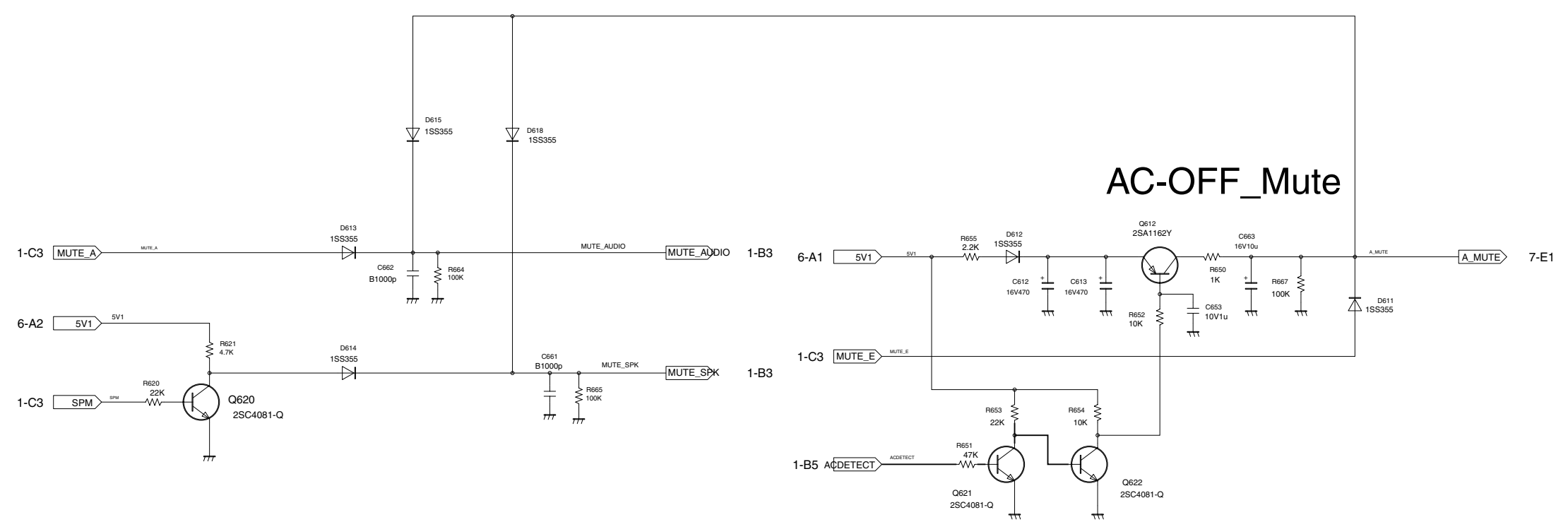
subTIF

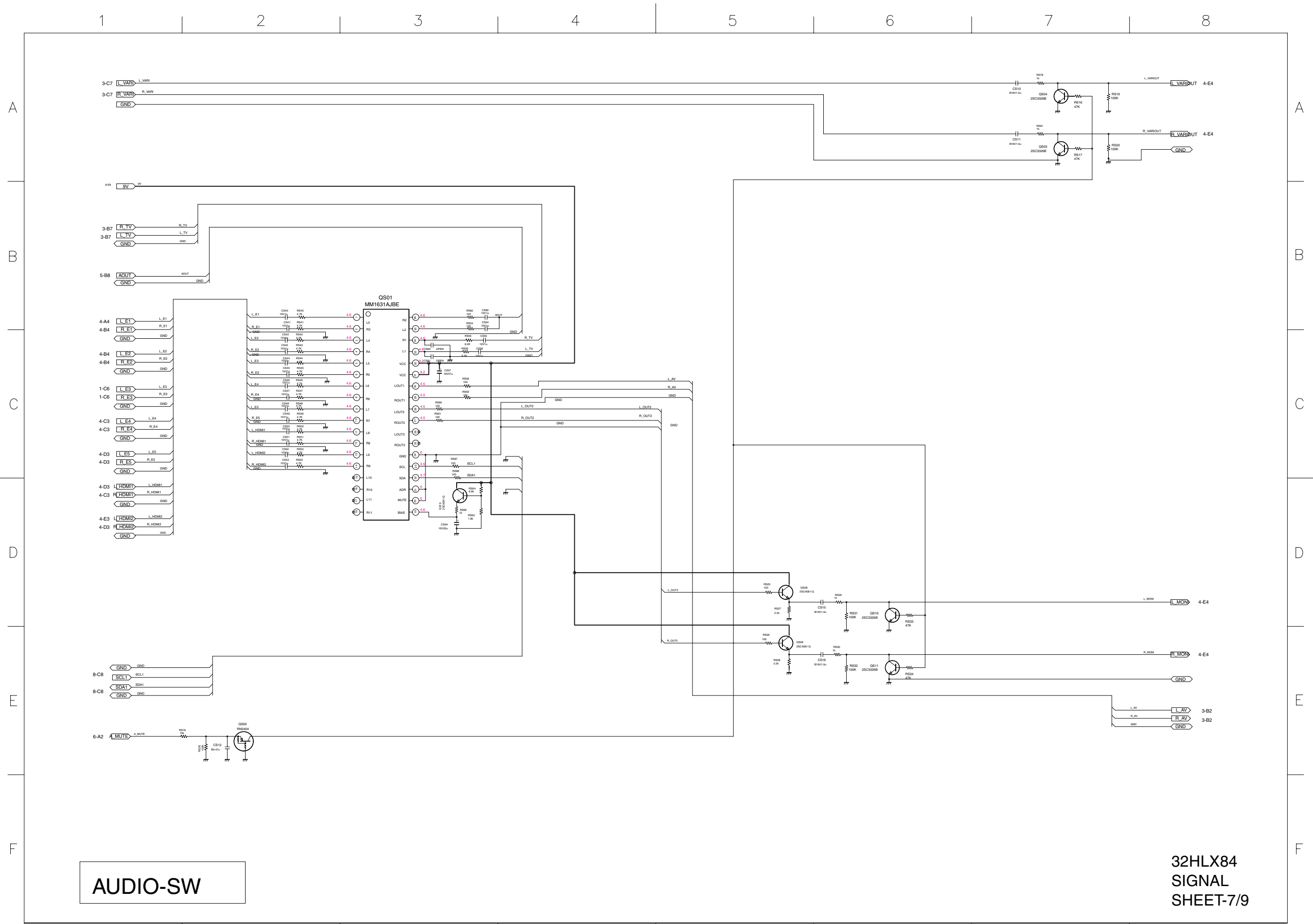
Main/Sub TIF



32HLX84
SIGNAL
SHEET-5/9

Audio-MUTE

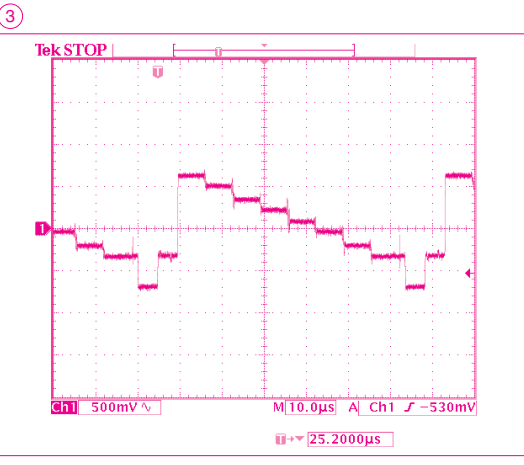
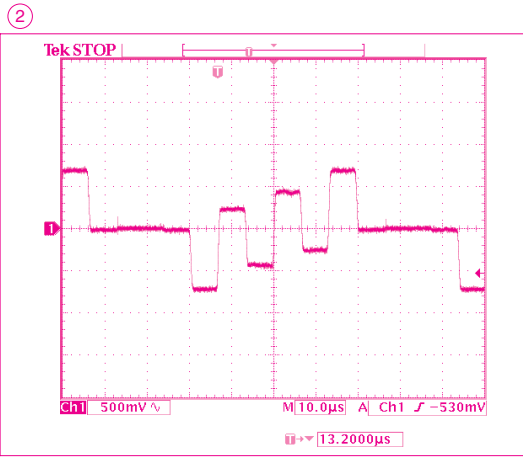
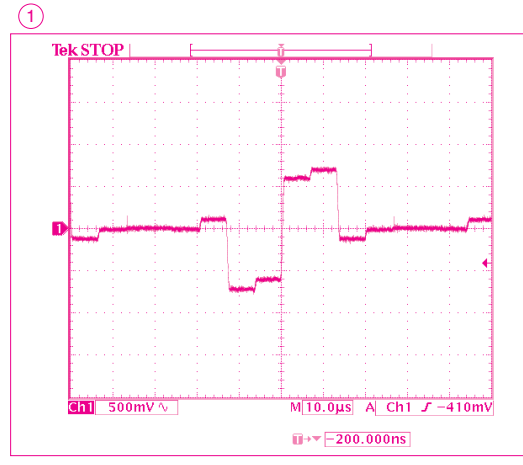
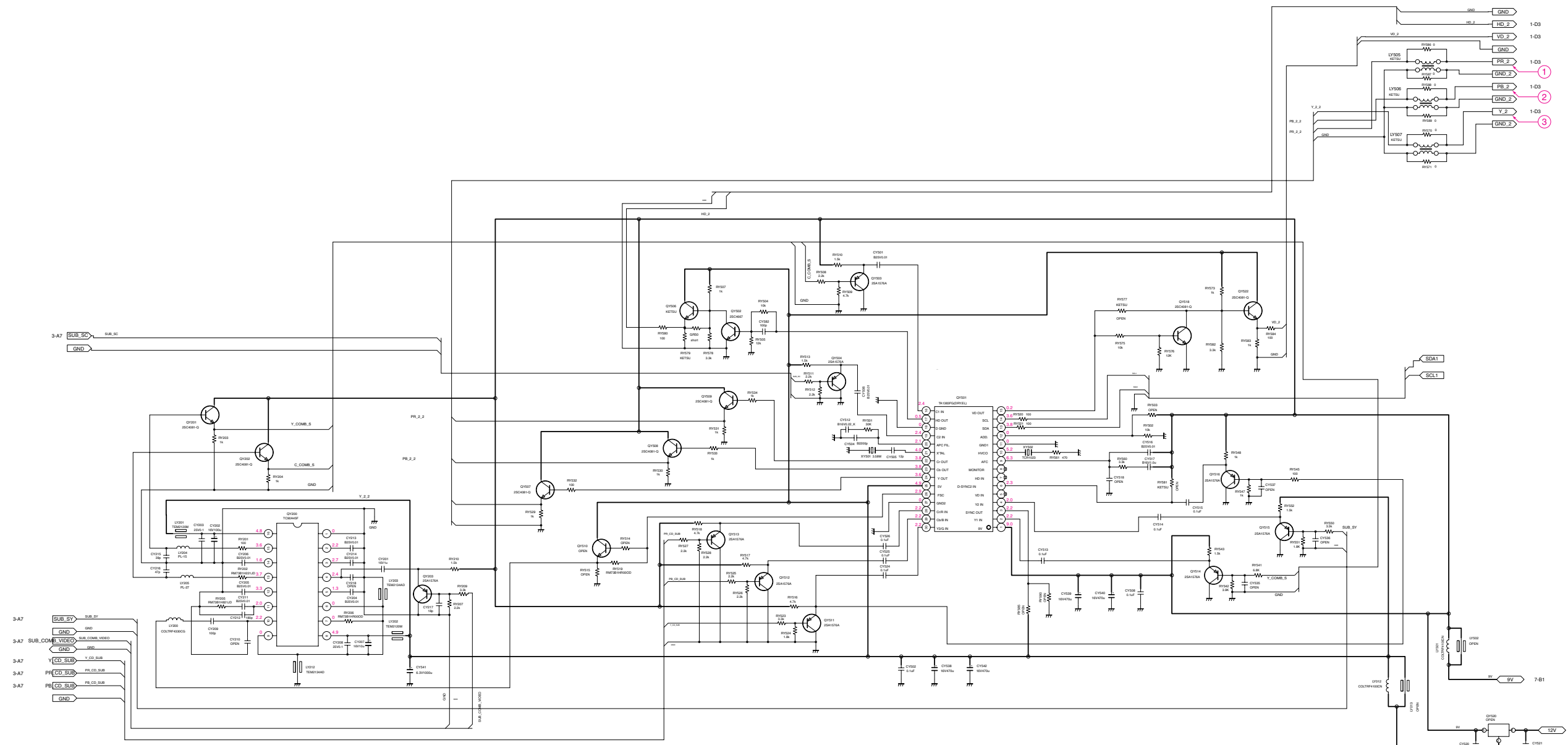




AUDIO-SW

32HLX84
SIGNAL
SHEET-7/9

SUB VCD



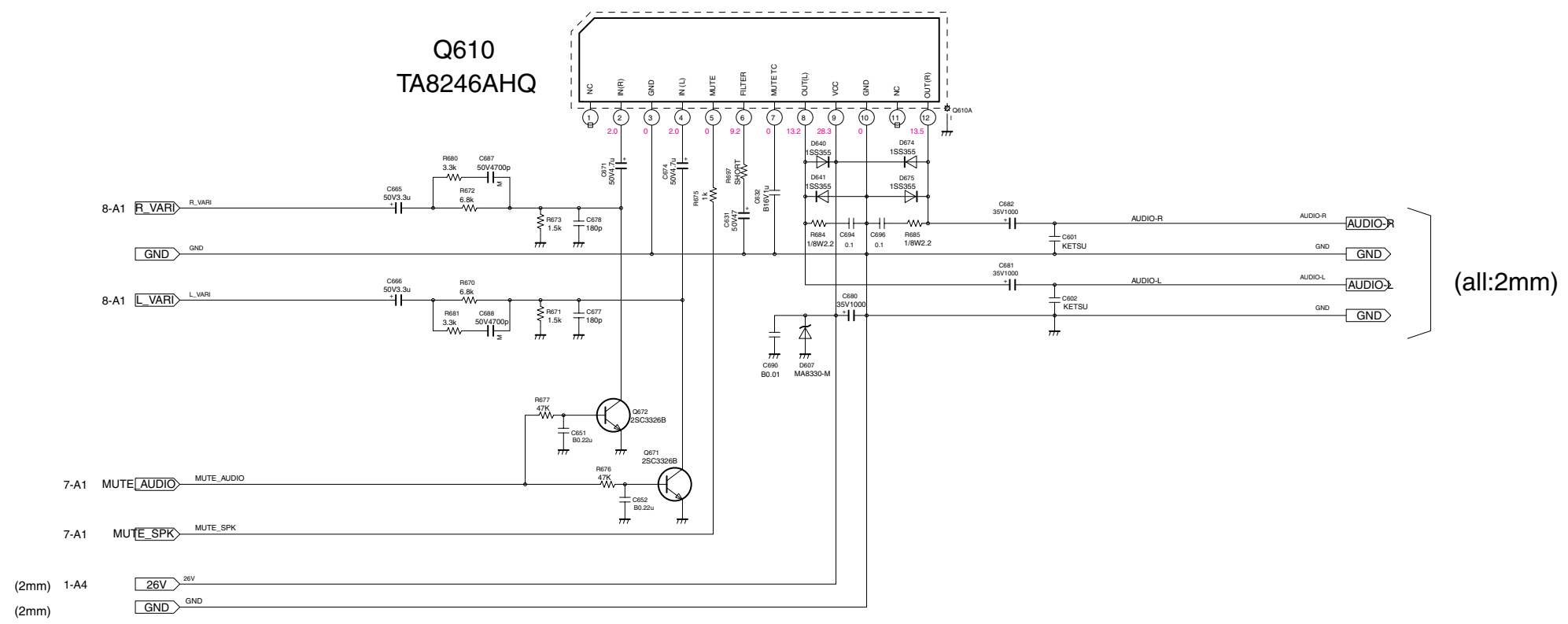
32HLX84
SIGNAL
SHEET-8/9

1

2

A

A



A-OUT

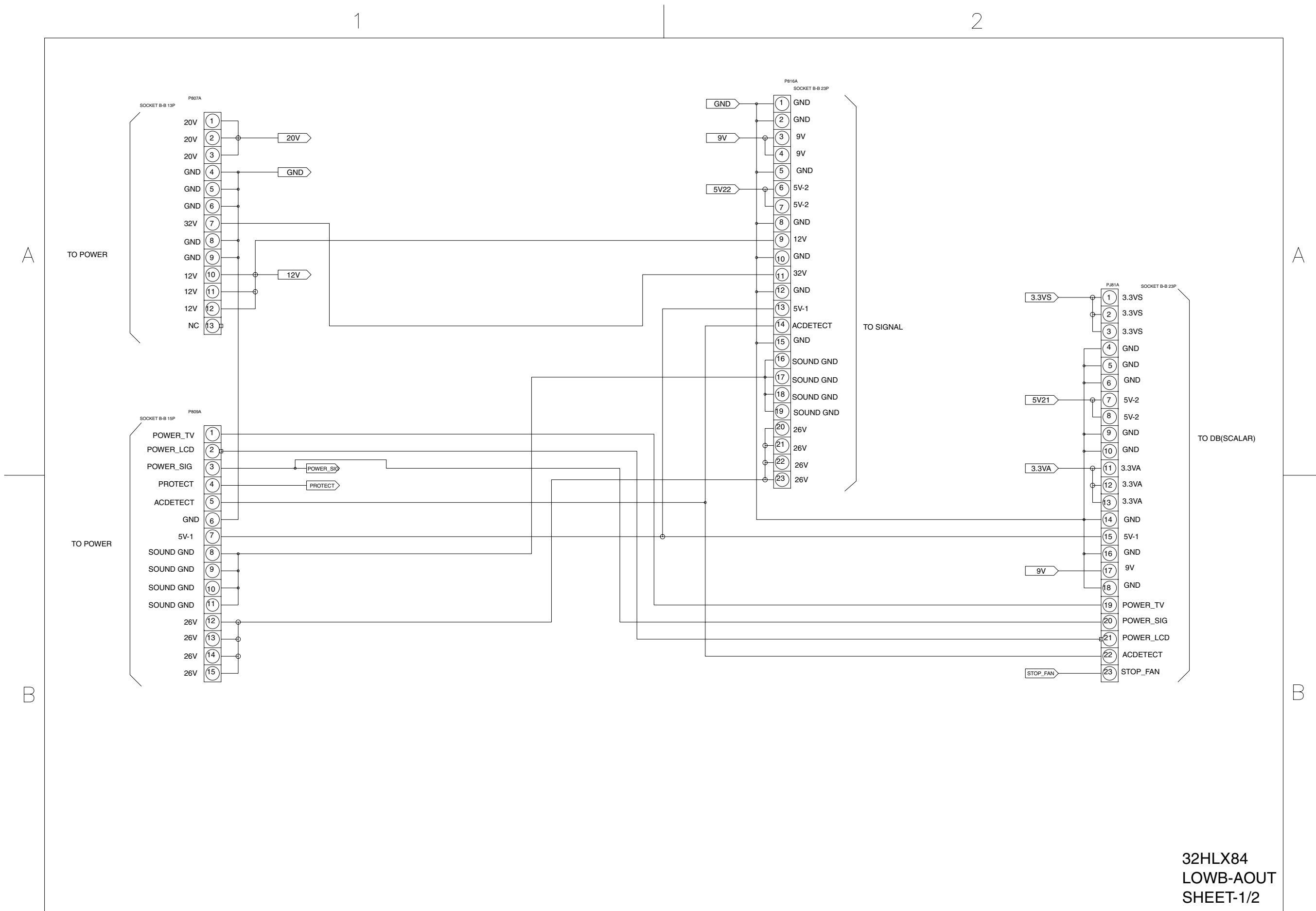
B

B

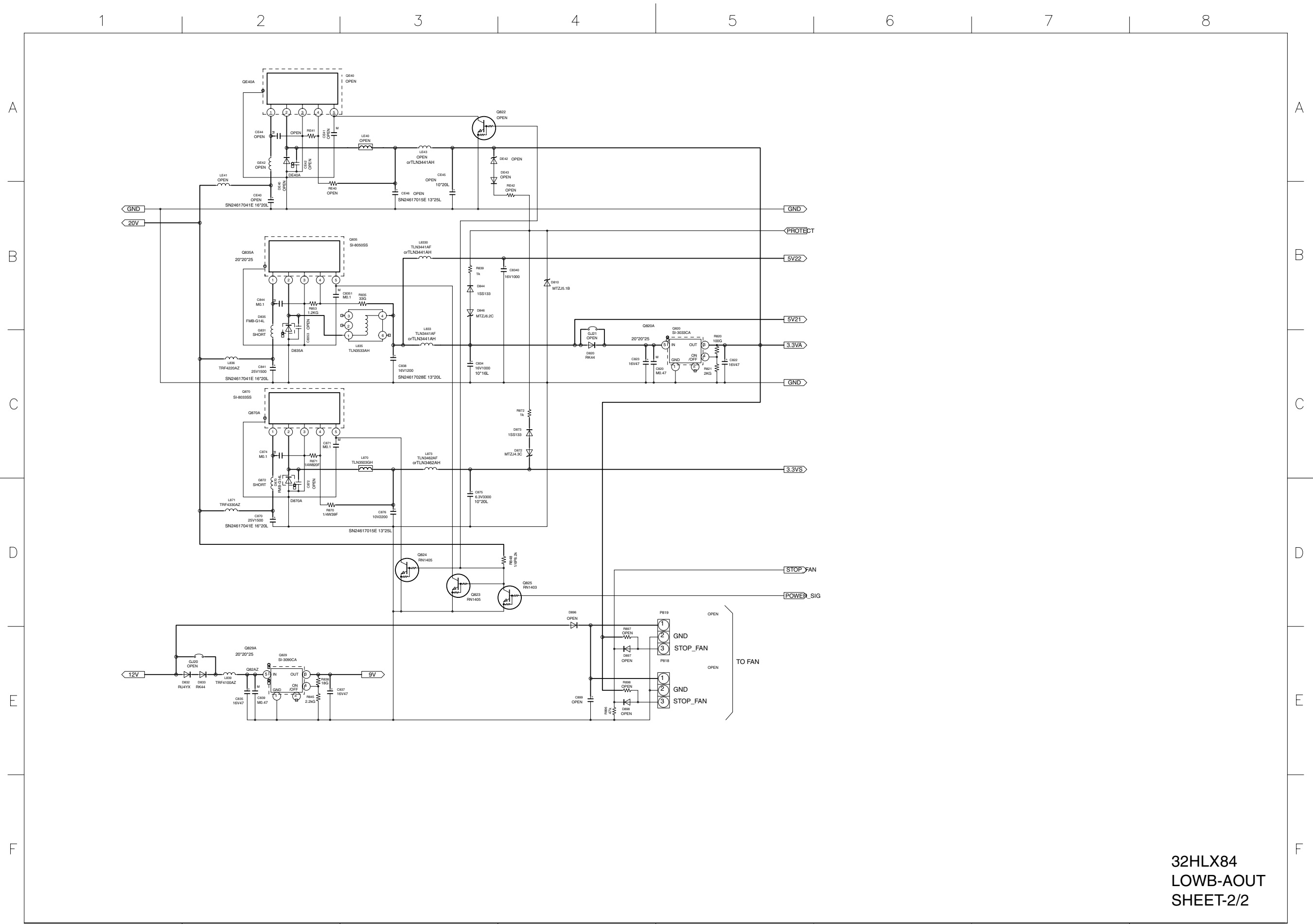
1

2

32HLX84
SIGNAL
SHEET-9/9



32HLX84
LOWB-AOUT
SHEET-1/2



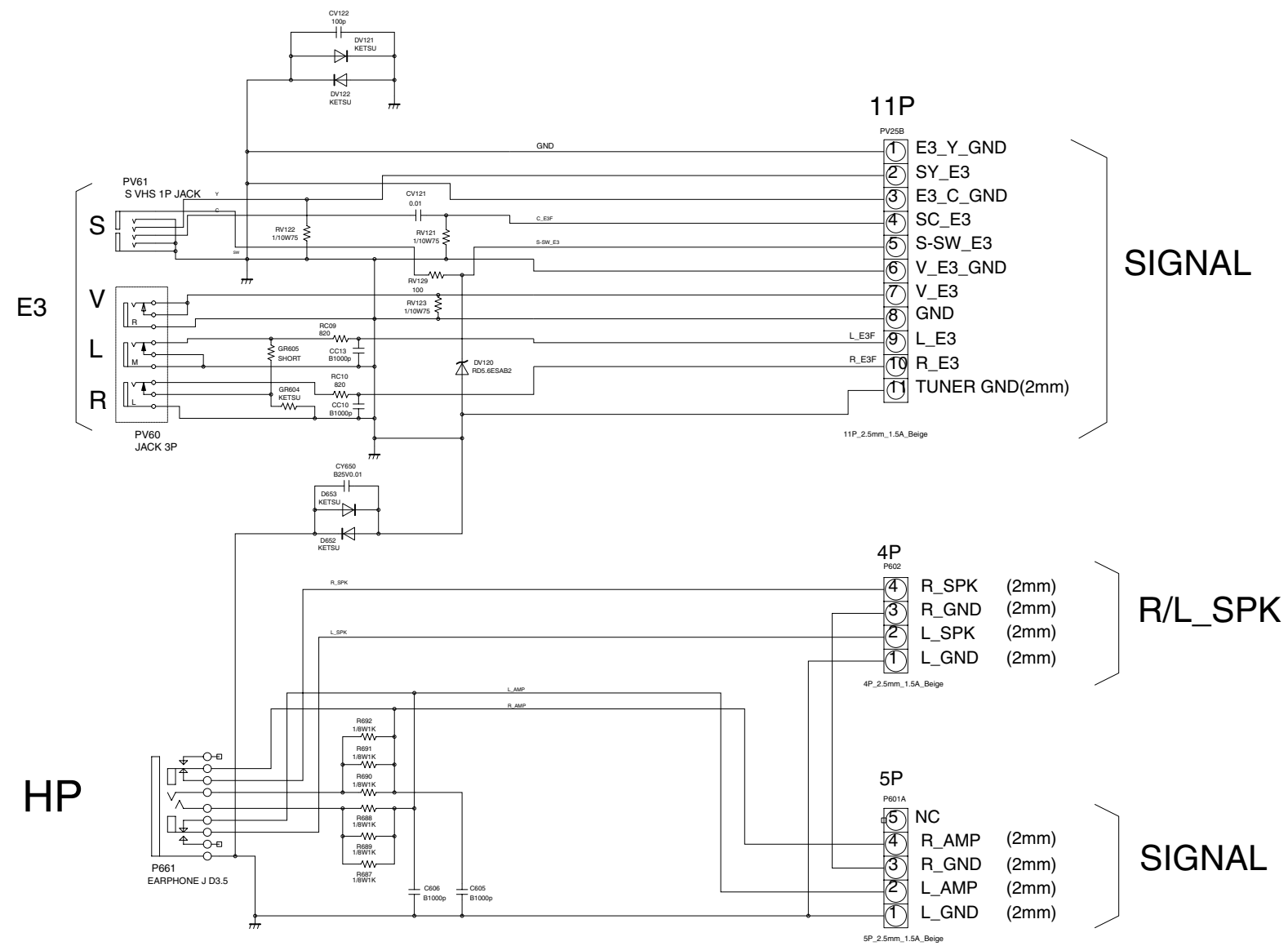
32HLX84
LOWB-AOUT
SHEET-2/2

1

2

A

A



B

B

32HLX84
FRONT AV

1

2

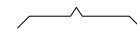
1

2

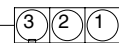
A

A

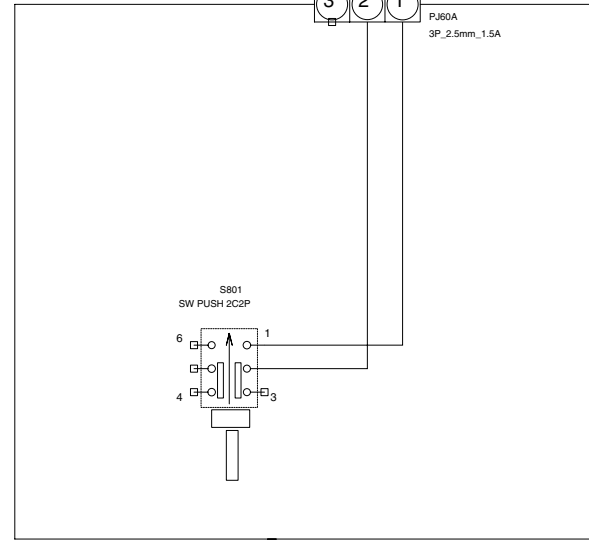
To SCALER



NC
GND
KEY-1



FJ60A
3P_2.5mm_1.5A



B

B

32HLX84
POWER SW

1

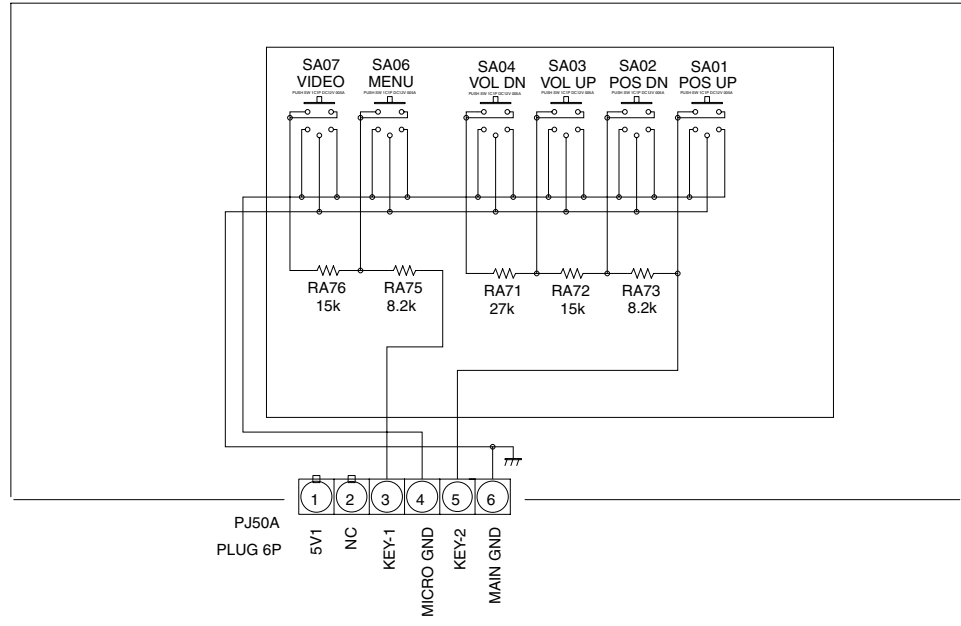
2

1

2

A

A



B

B

32HLX84
KEY

1

2

1

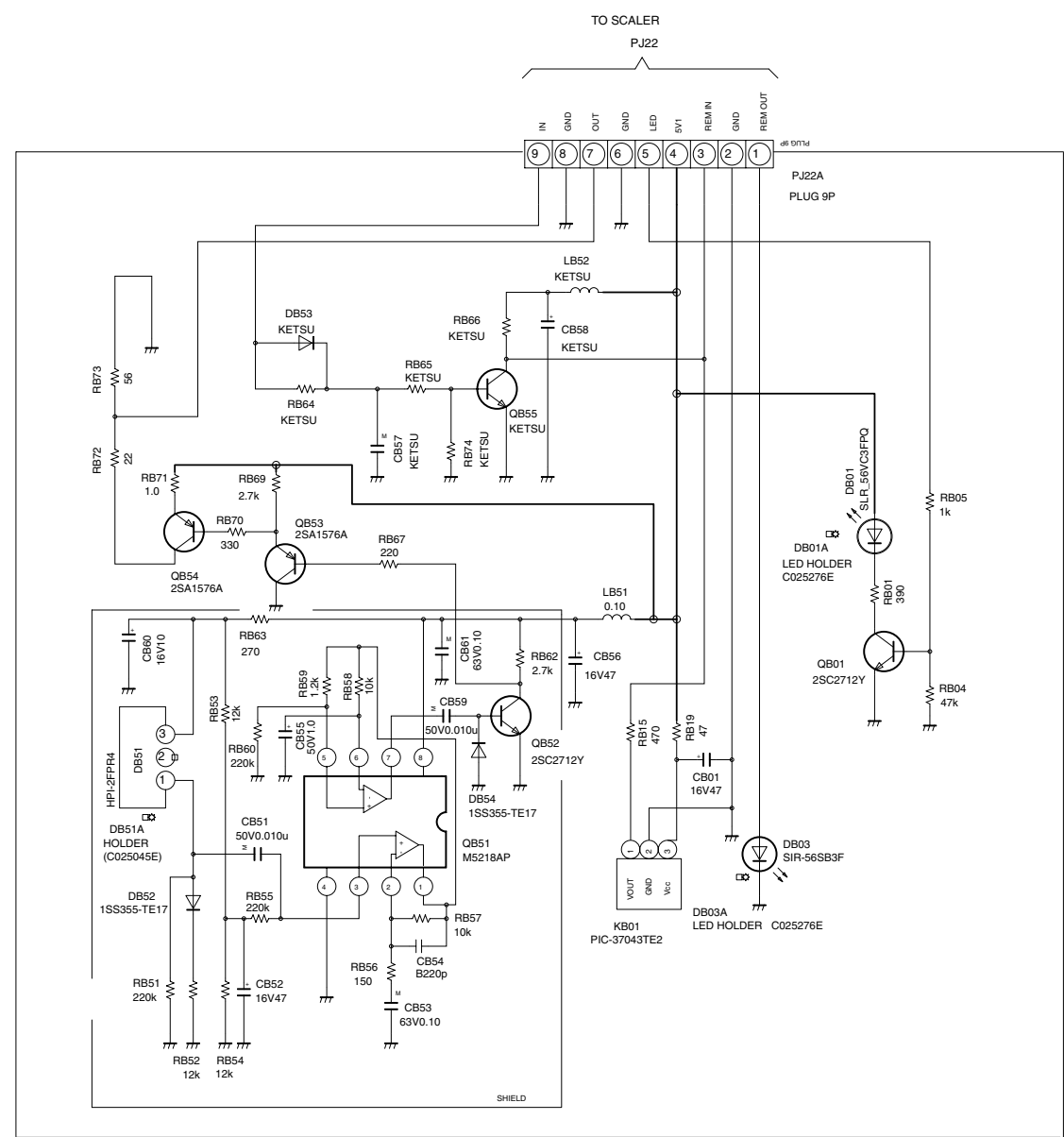
2

A

A

B

B

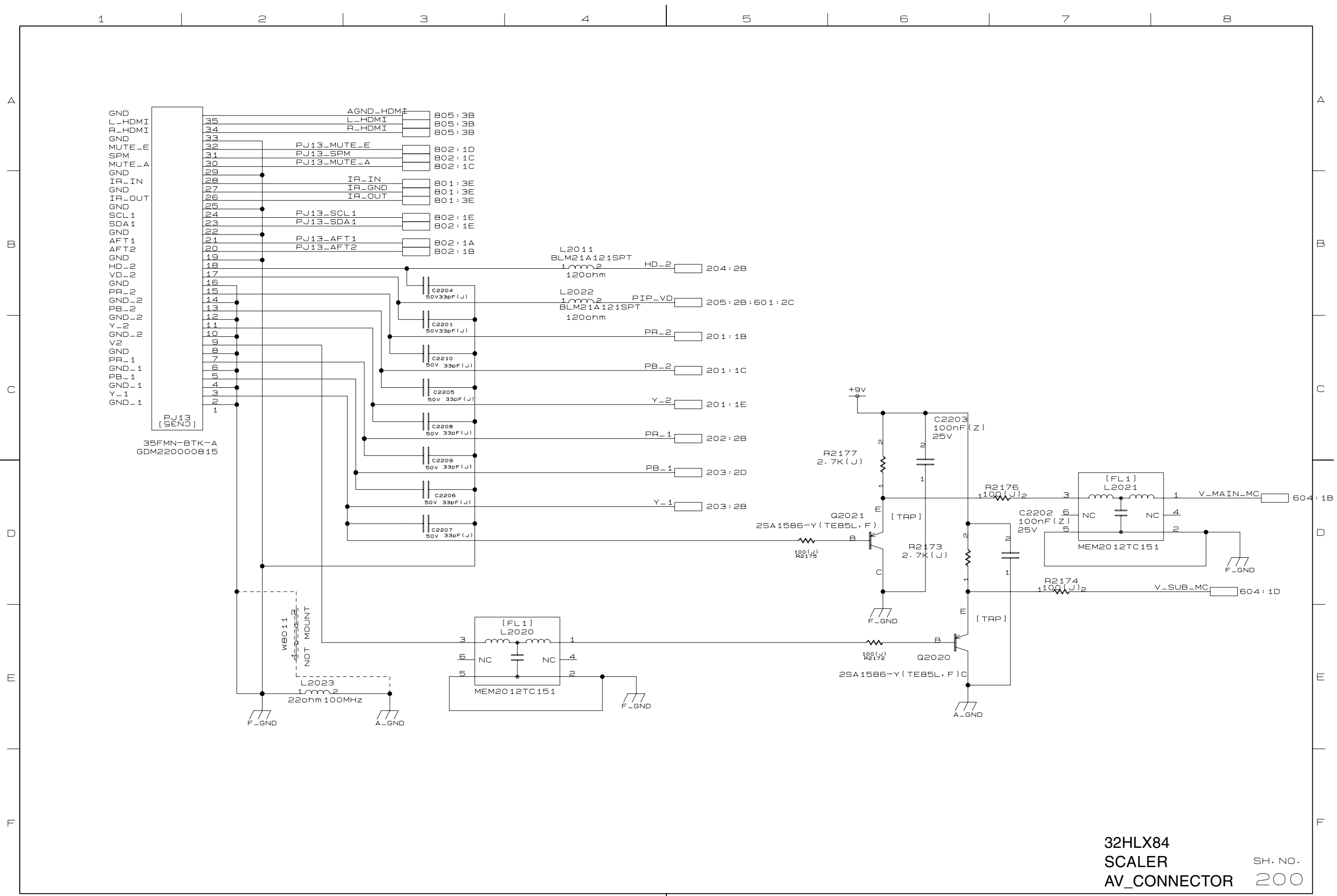


IR-PASS/RMT/LED

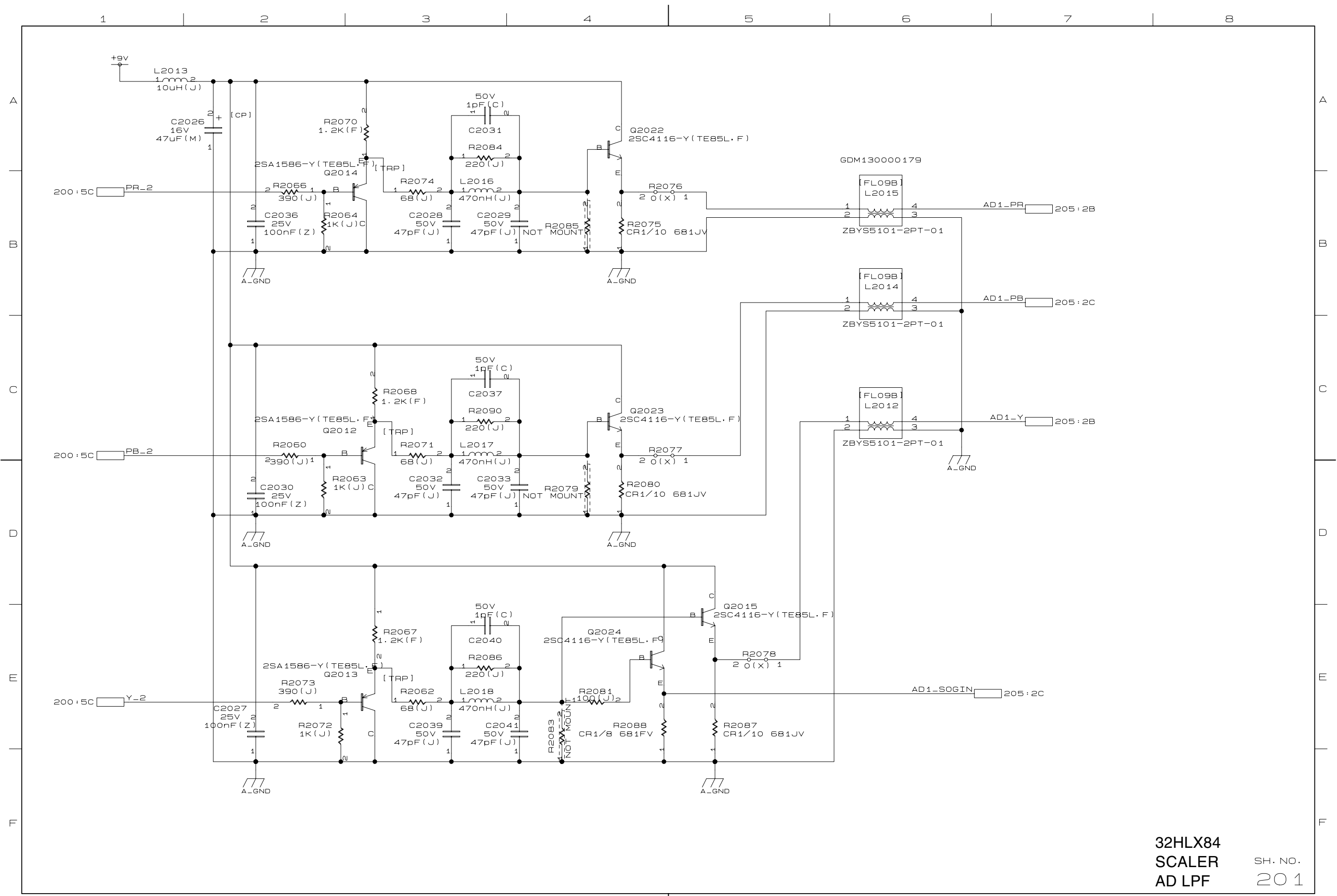
32HLX84
IR-PASS

1

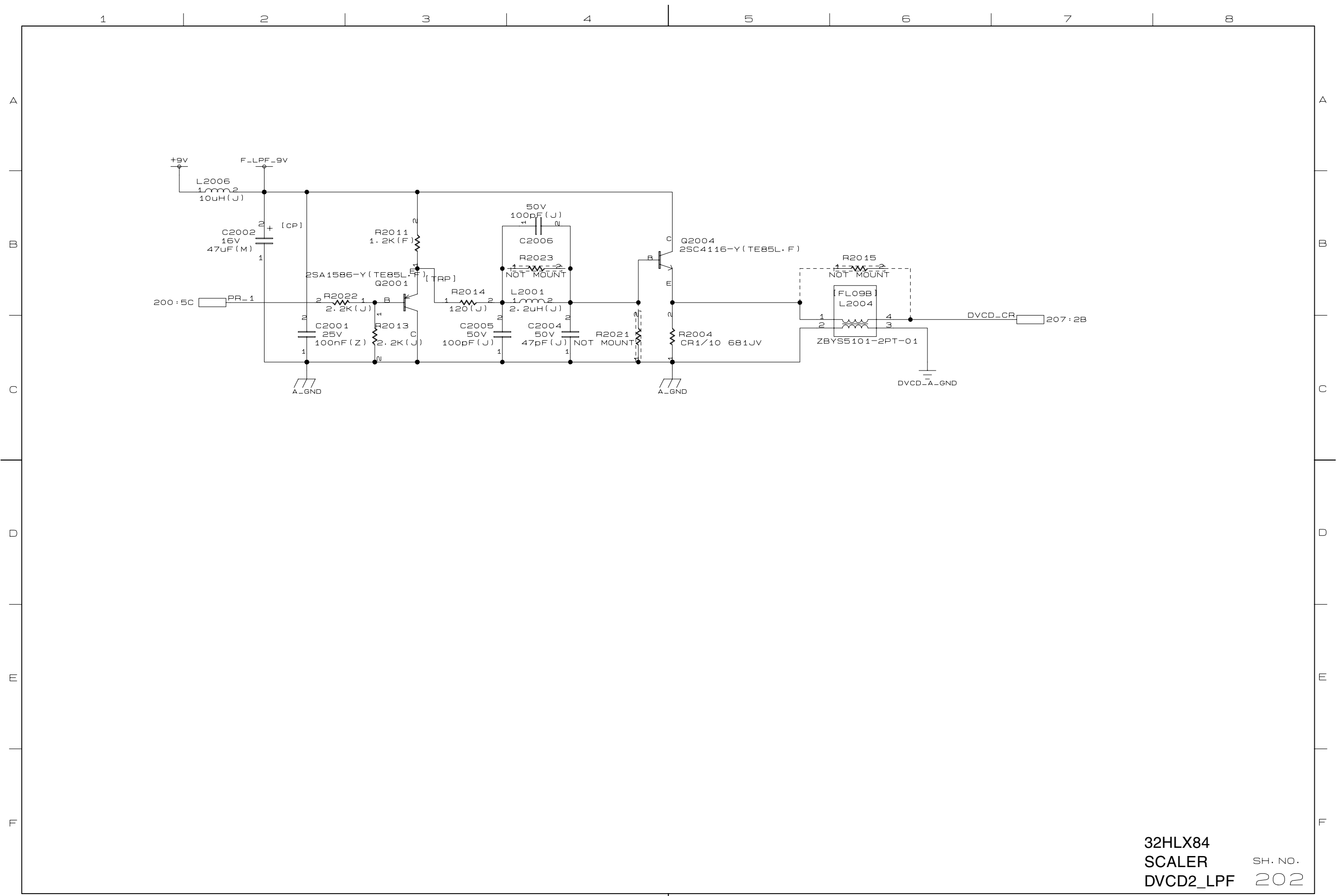
2



32HLX84
 SCALER
 AV_CONNECTOR
 SH. NO.
 200

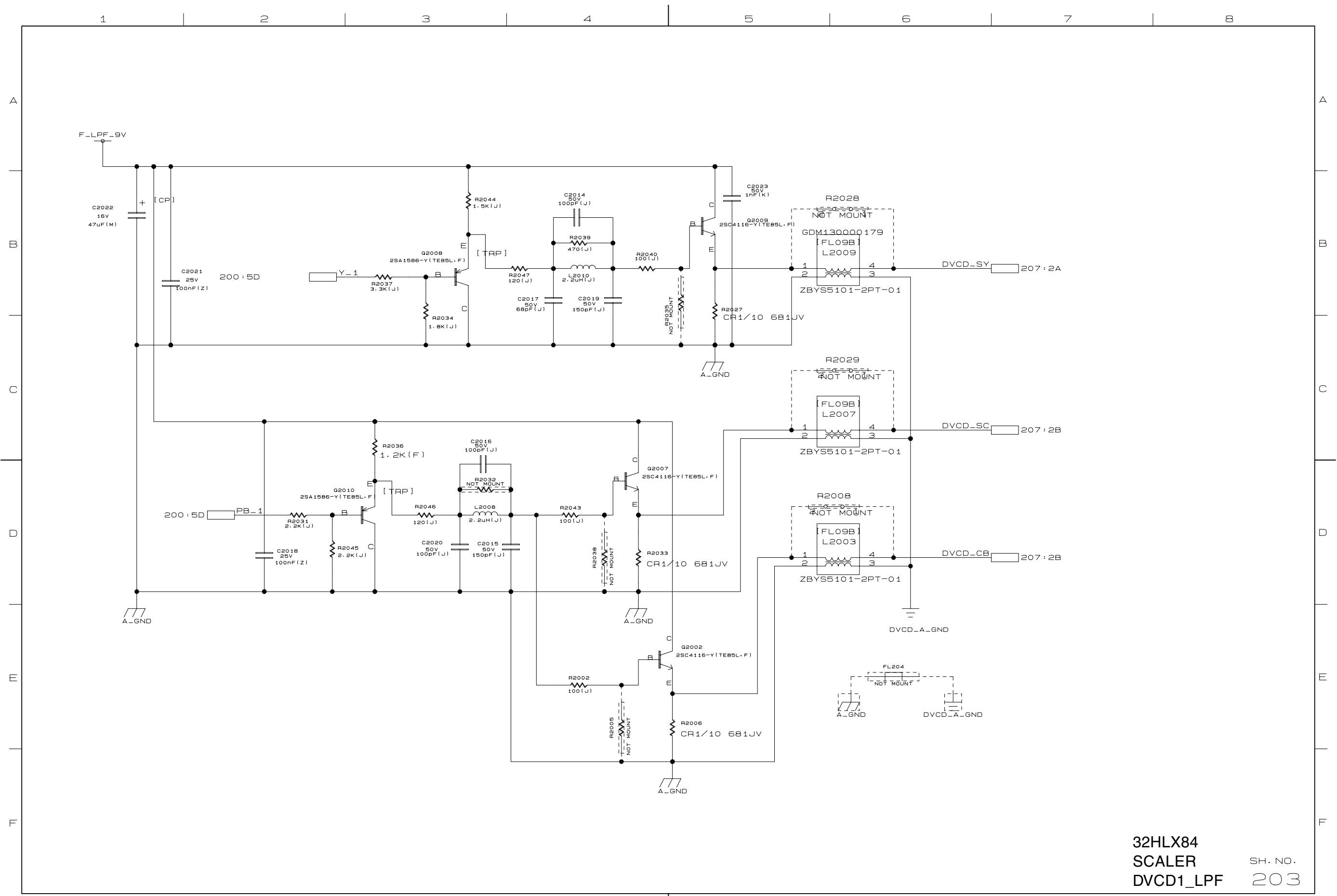


32HLX84
 SCALER
 AD LPF
 SH. NO.
 201

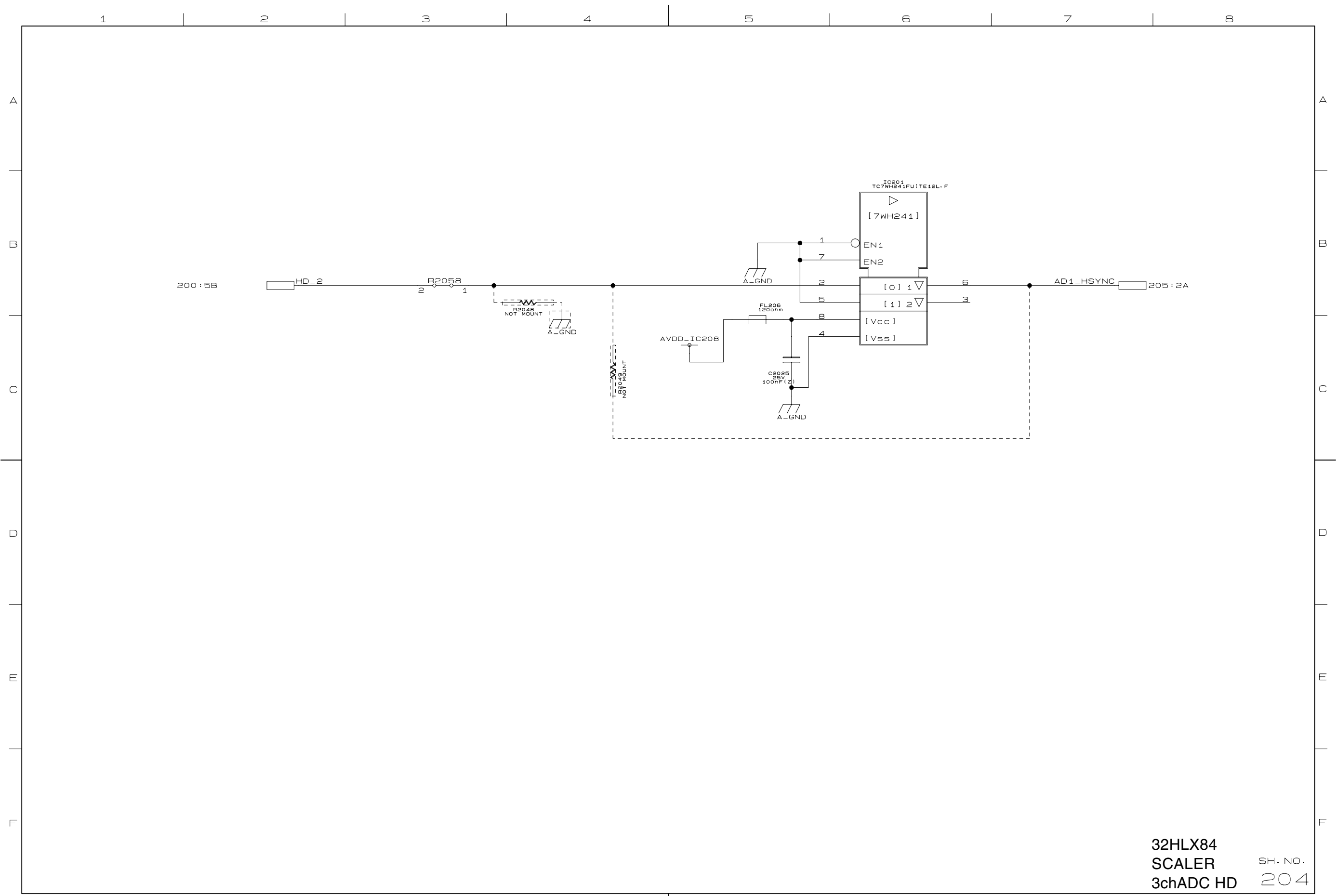


32HLX84
 SCALER
 DVCD2_LPF

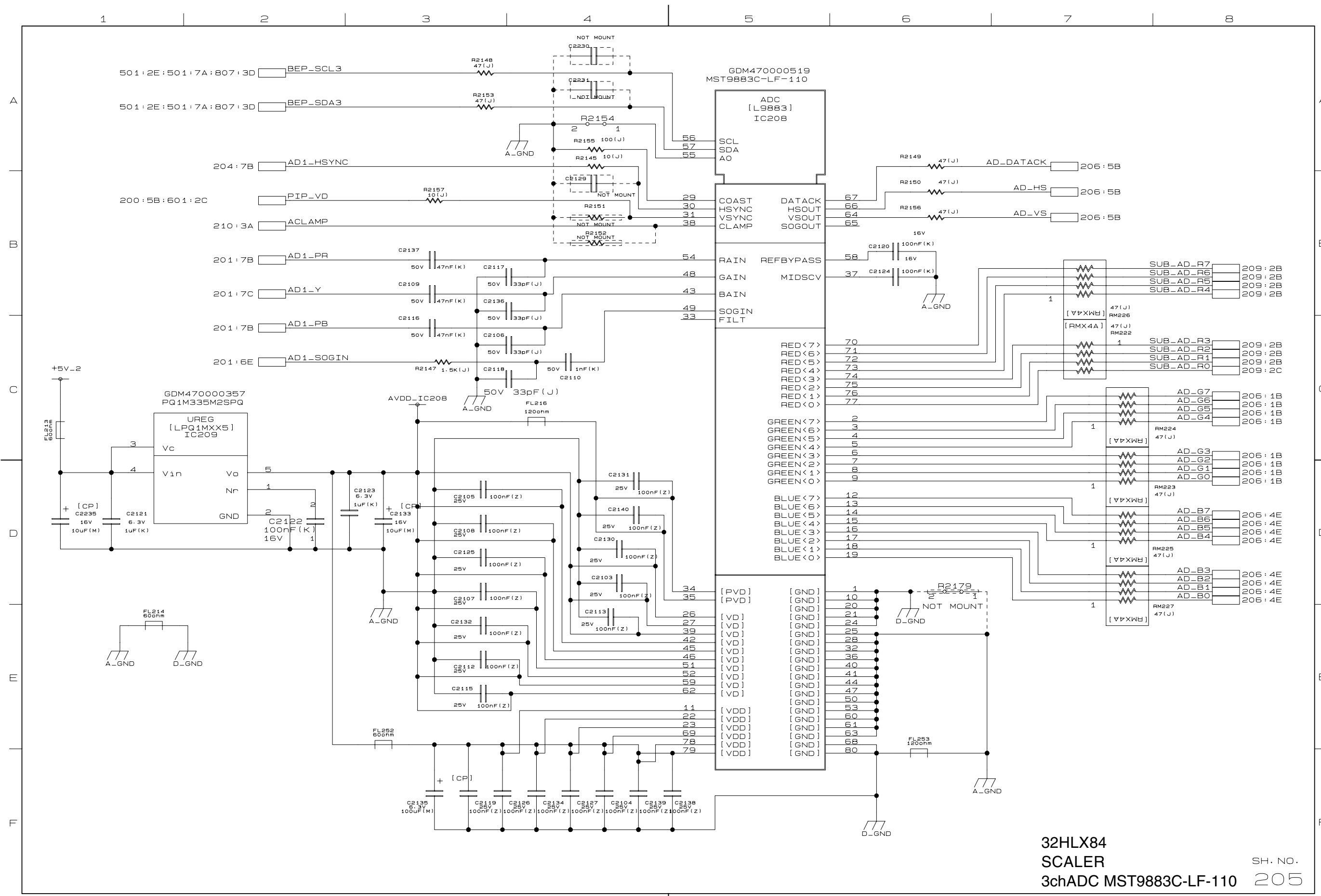
SH. NO.
 202



32HLX84
 SCALER
 DVCD1_LPF
 SH. NO.
 203

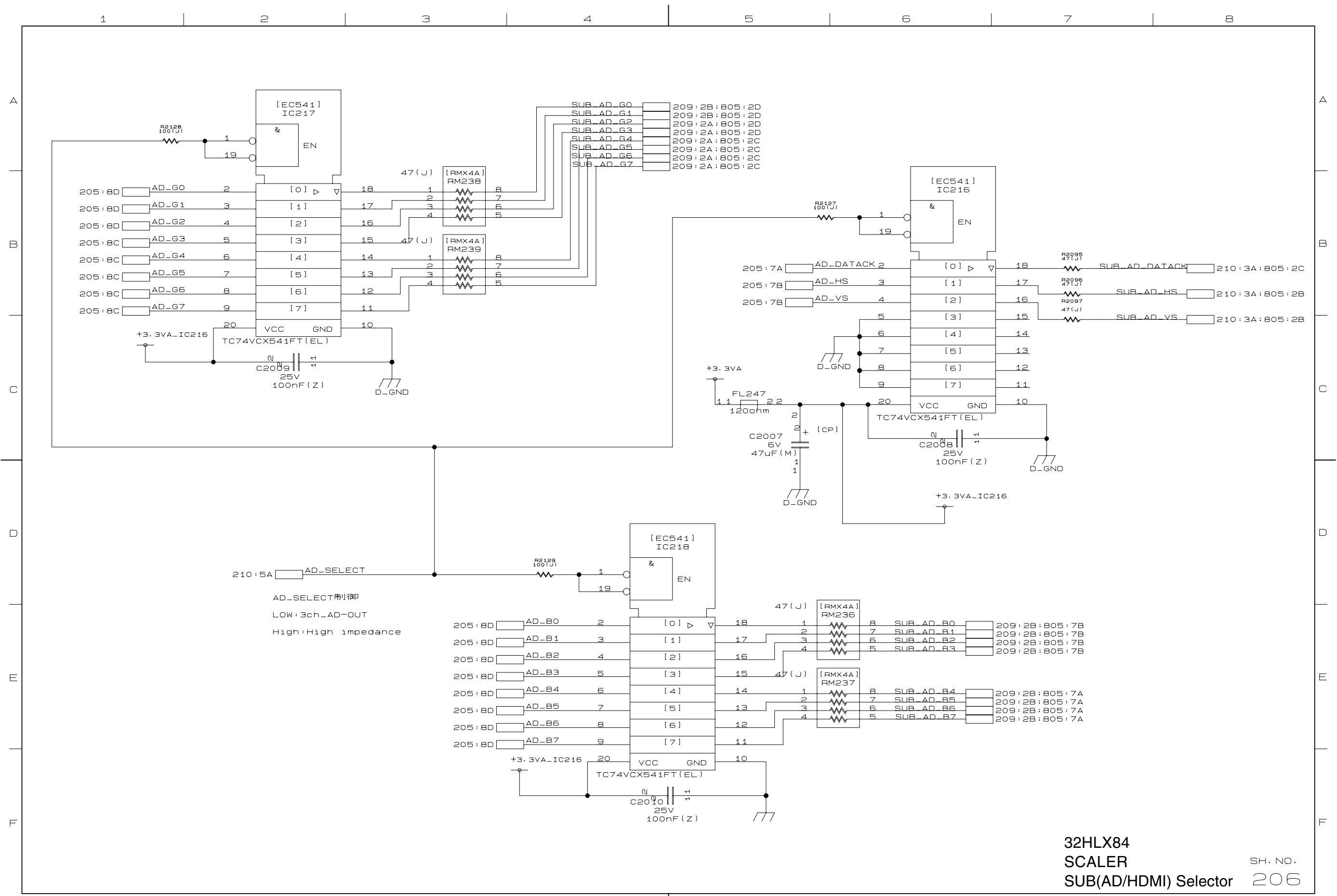


32HLX84
 SCALER SH. NO.
 3chADC HD 204



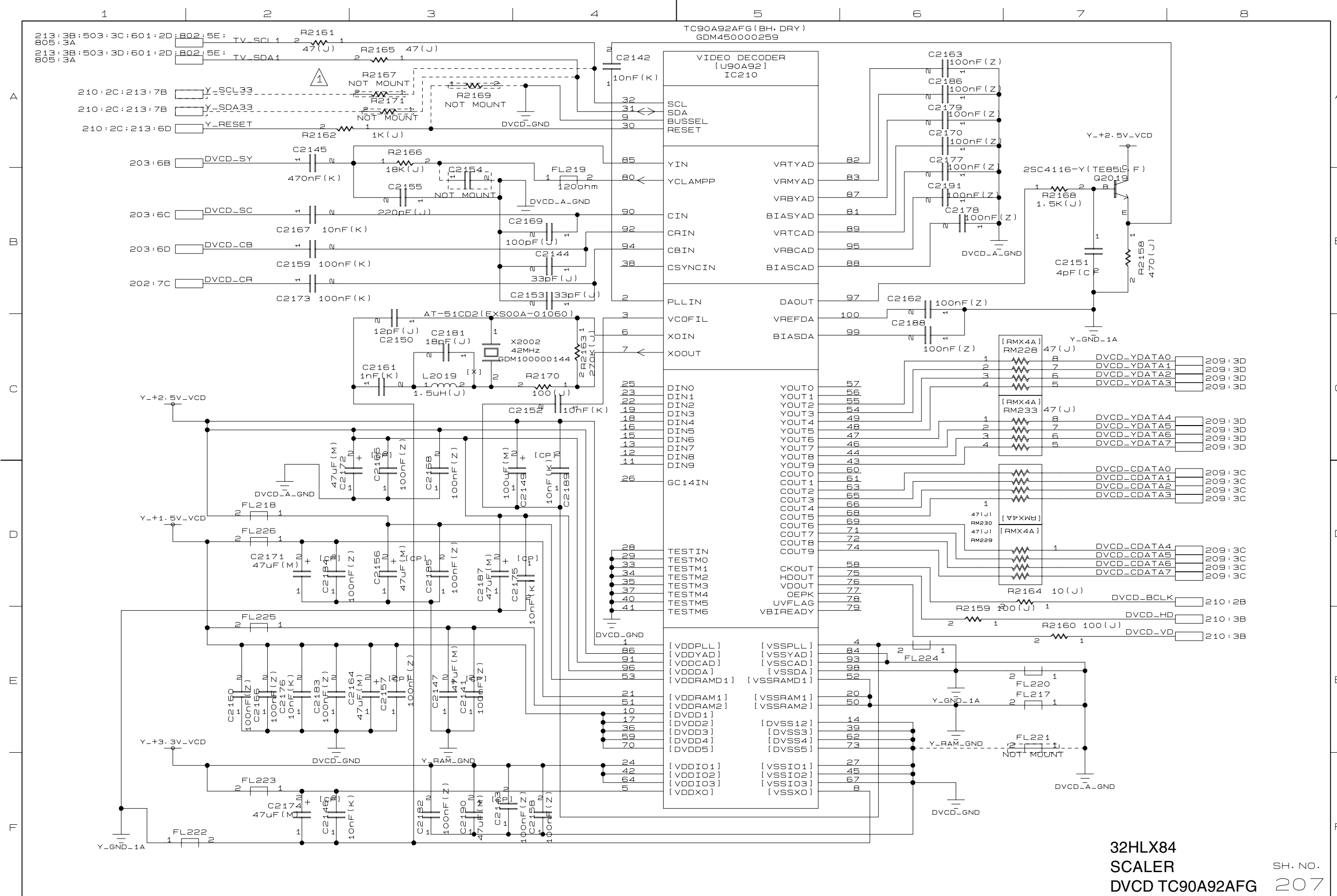
32HLX84
SCALER
3chADC MST9883C-LF-110

SH. NO. **205**

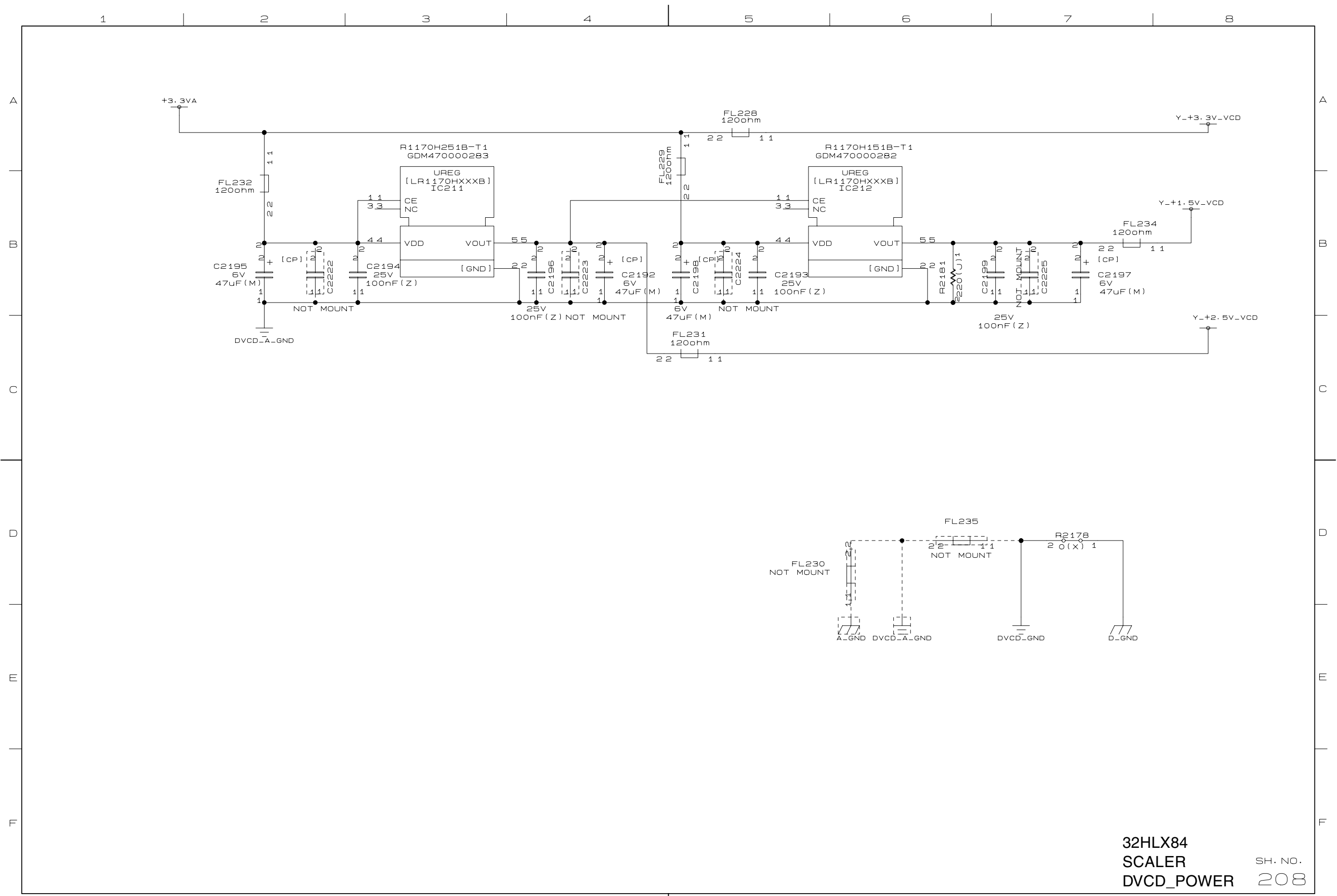


32HLX84
SCALER
SUB(AD/HDMI) Selector

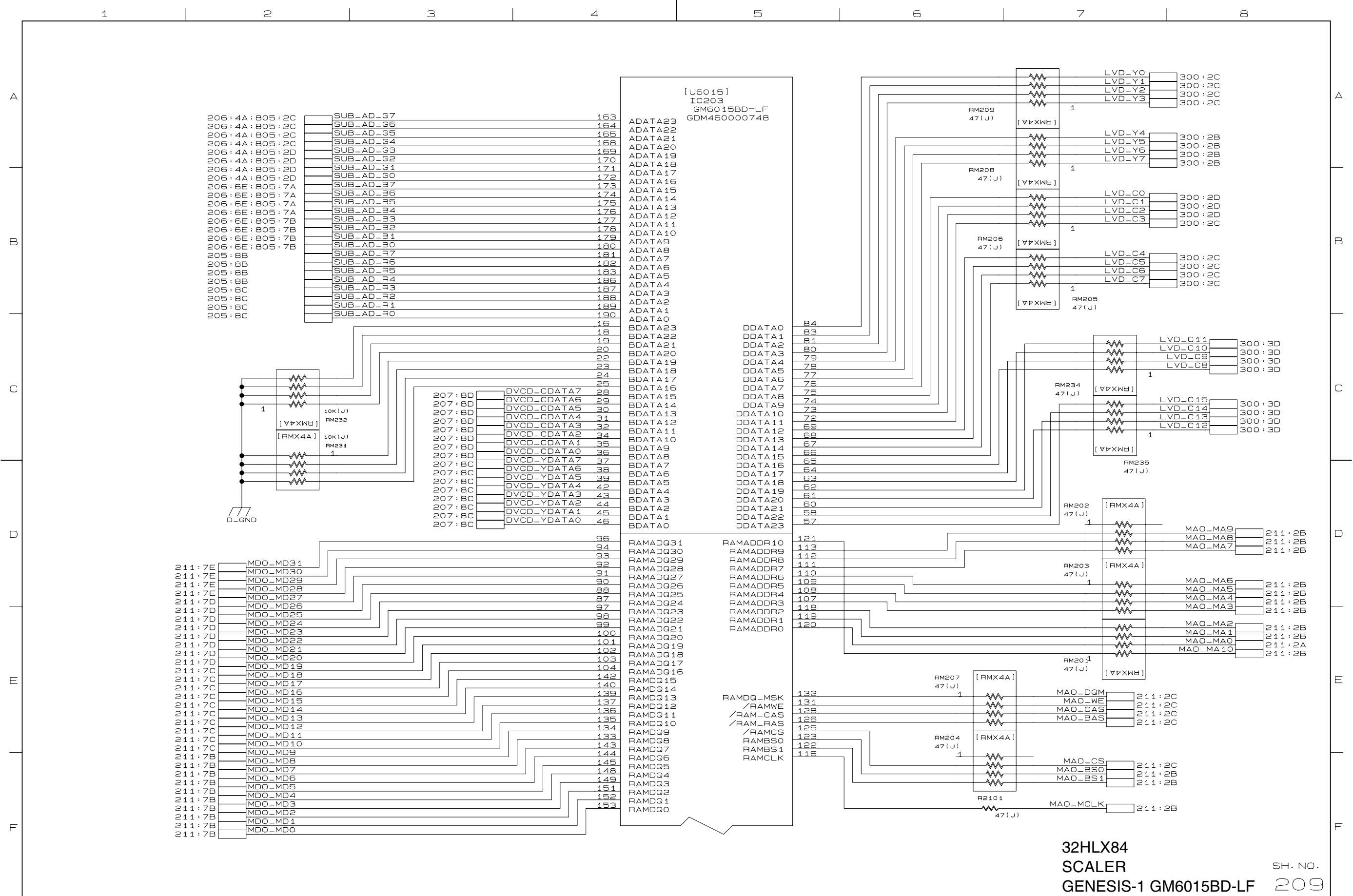
SH. NO.
206



32HLX84
 SCALER
 DVCD TC90A92AFG
 SH. NO. 207

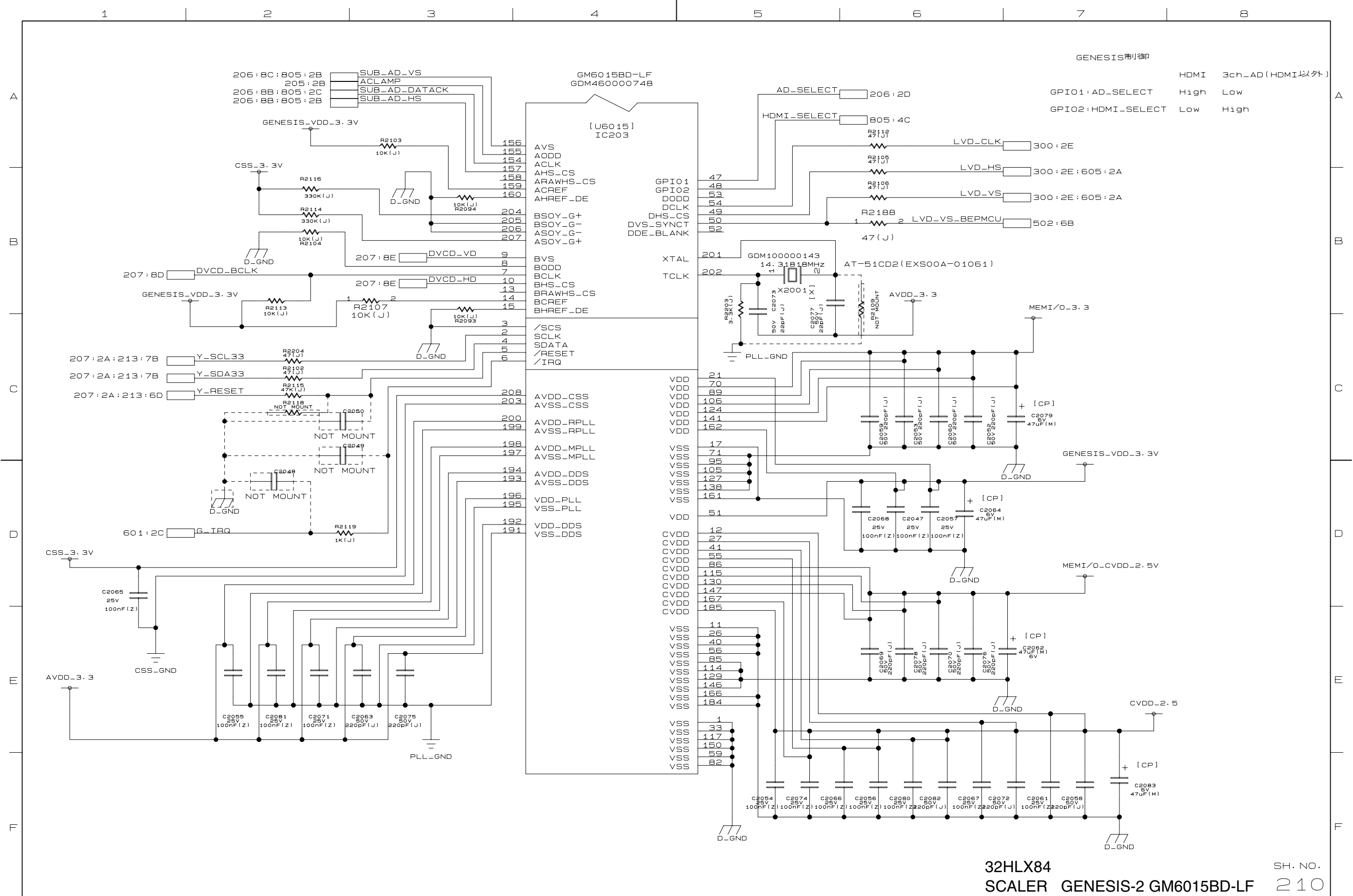


32HLX84
 SCALER
 DVCD_POWER
 SH. NO. 208



32HLX84
SCALER
GENESIS-1 GM6015BD-LF

SH. NO. **209**

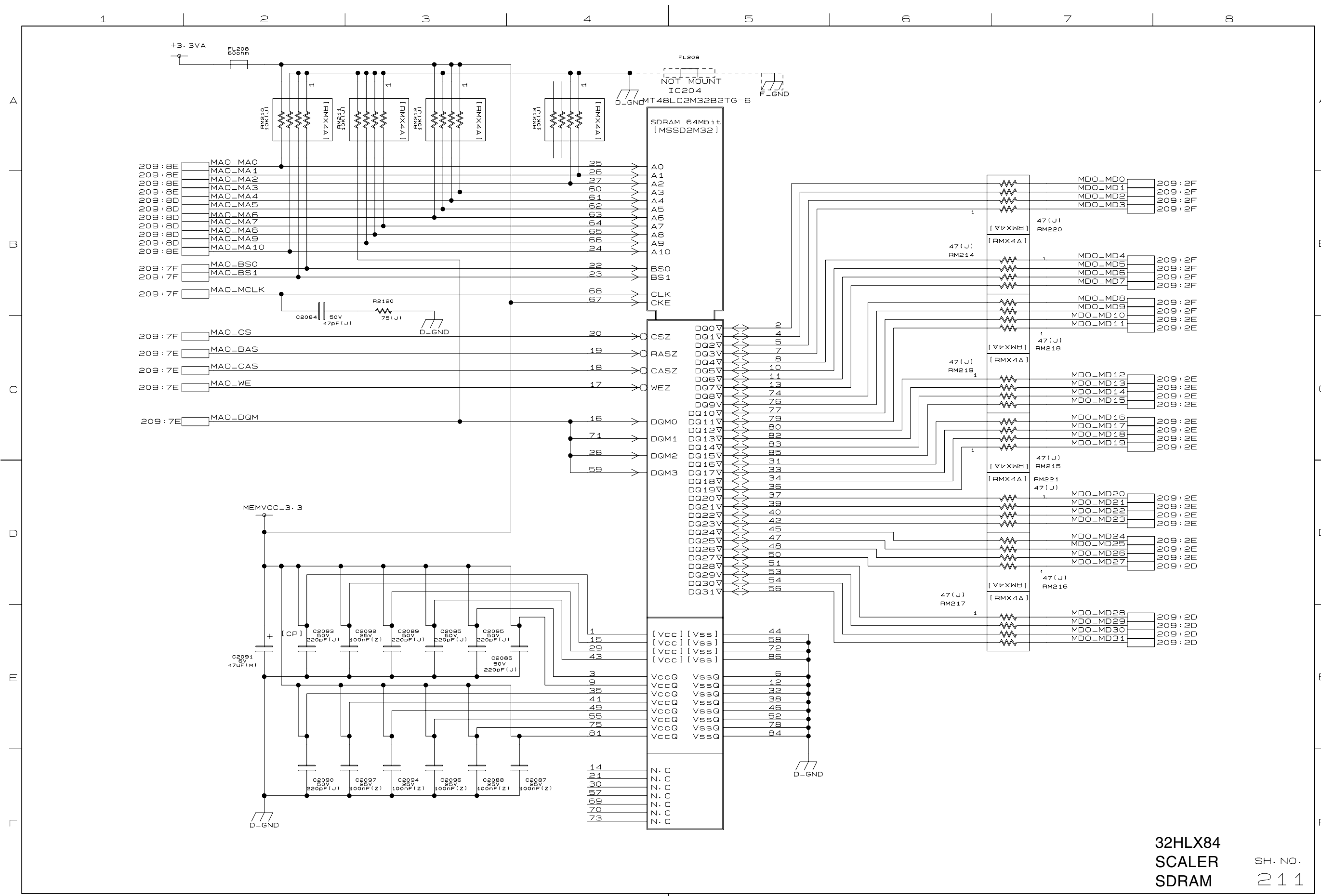


GENESIS制御

HDMI	3ch_AD (HDMI以外)
GPIO1: AD_SELECT	High Low
GPIO2: HDMI_SELECT	Low High

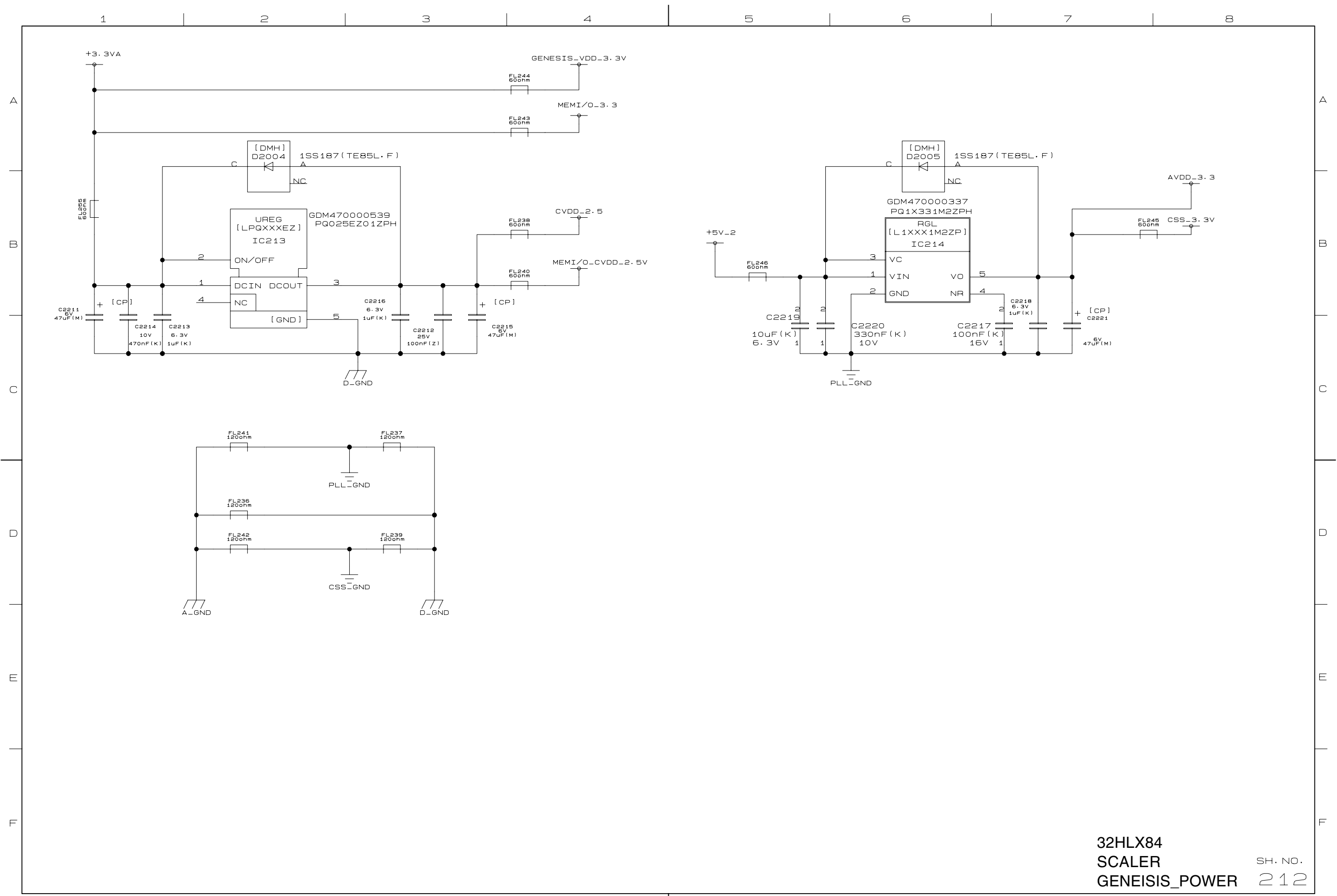
32HLX84
SCALER GENESIS-2 GM6015BD-LF

SH. NO. 210



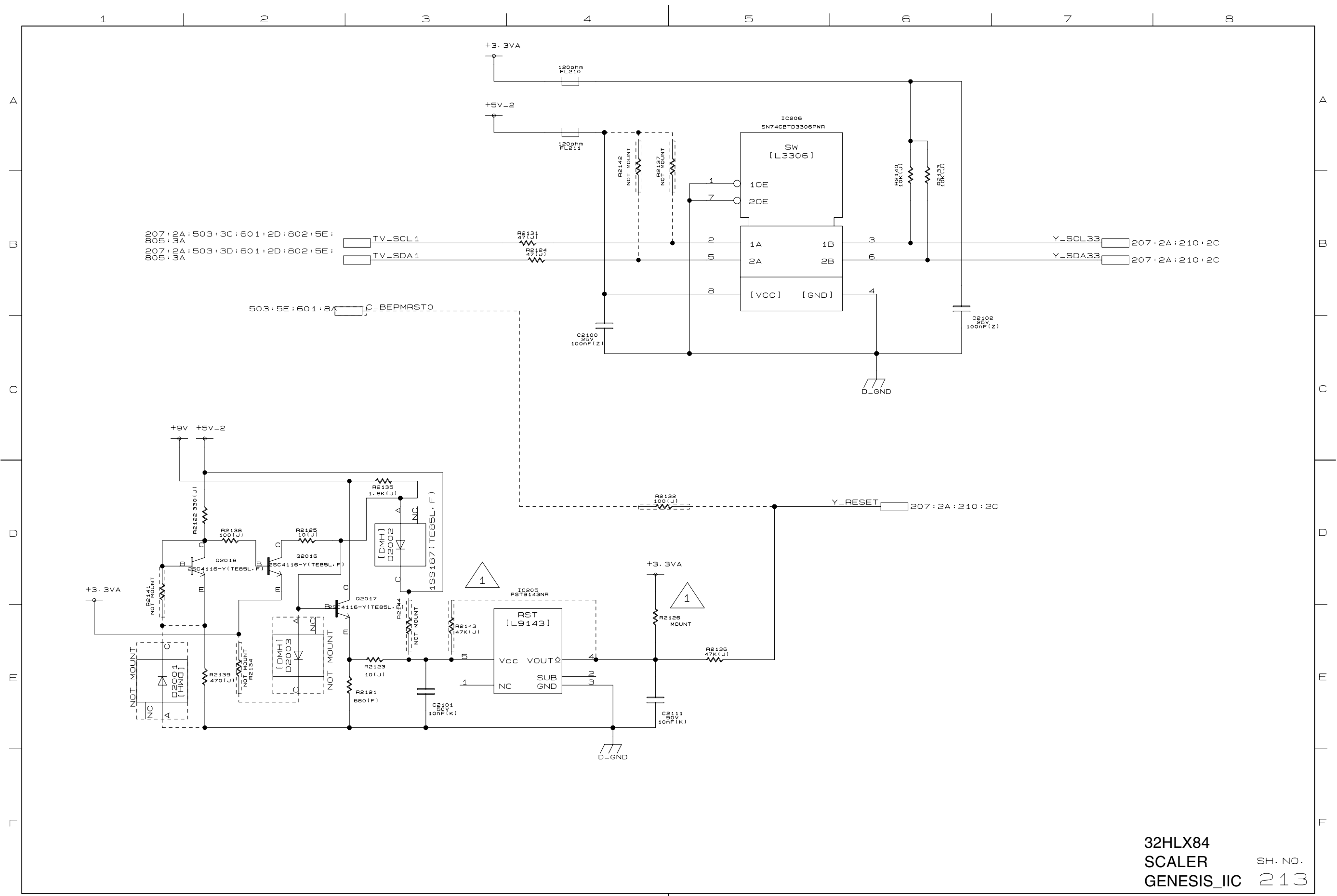
32HLX84
SCALER
SDRAM

SH. NO.
 211

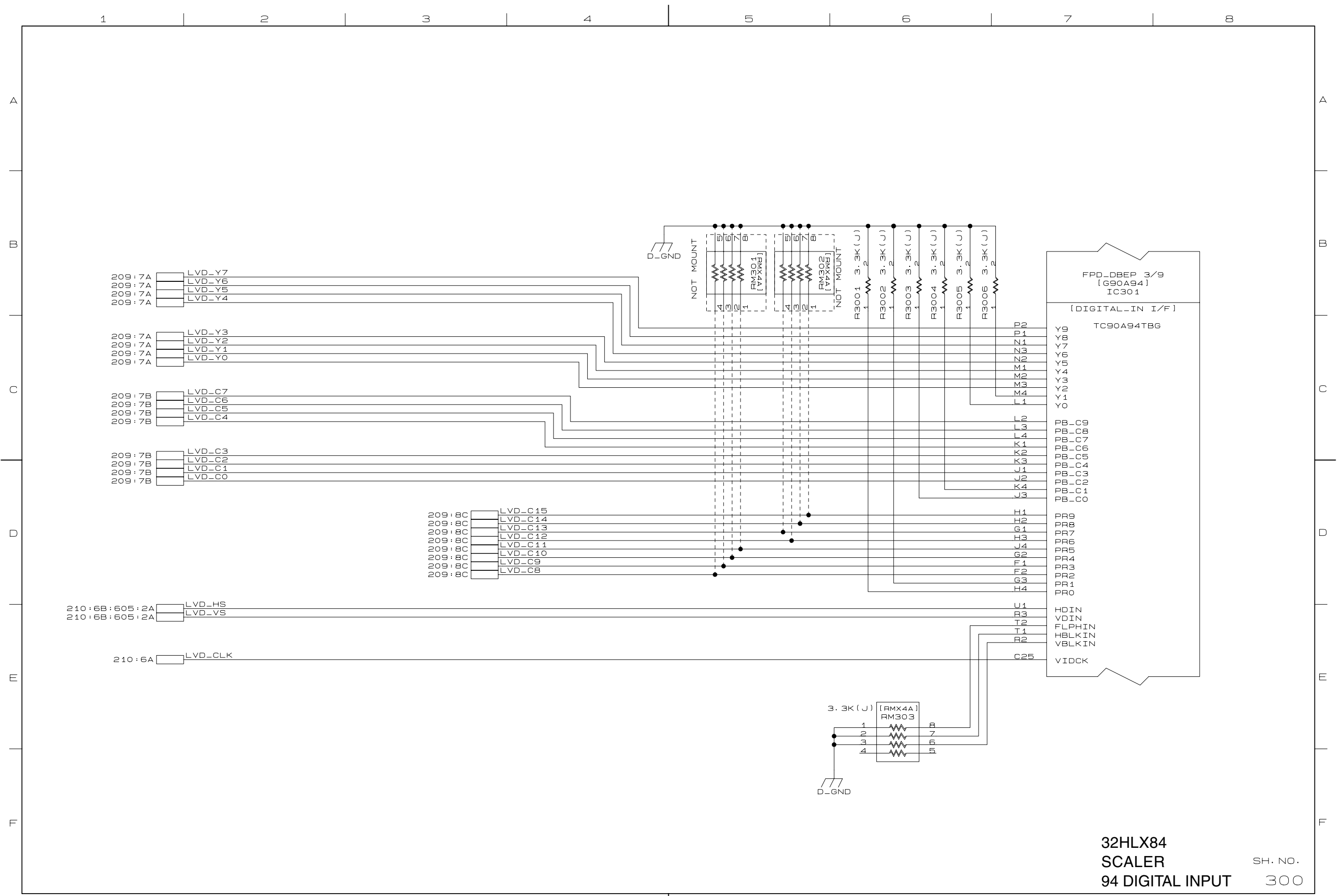


32HLX84
 SCALER
 GENEISIS_POWER

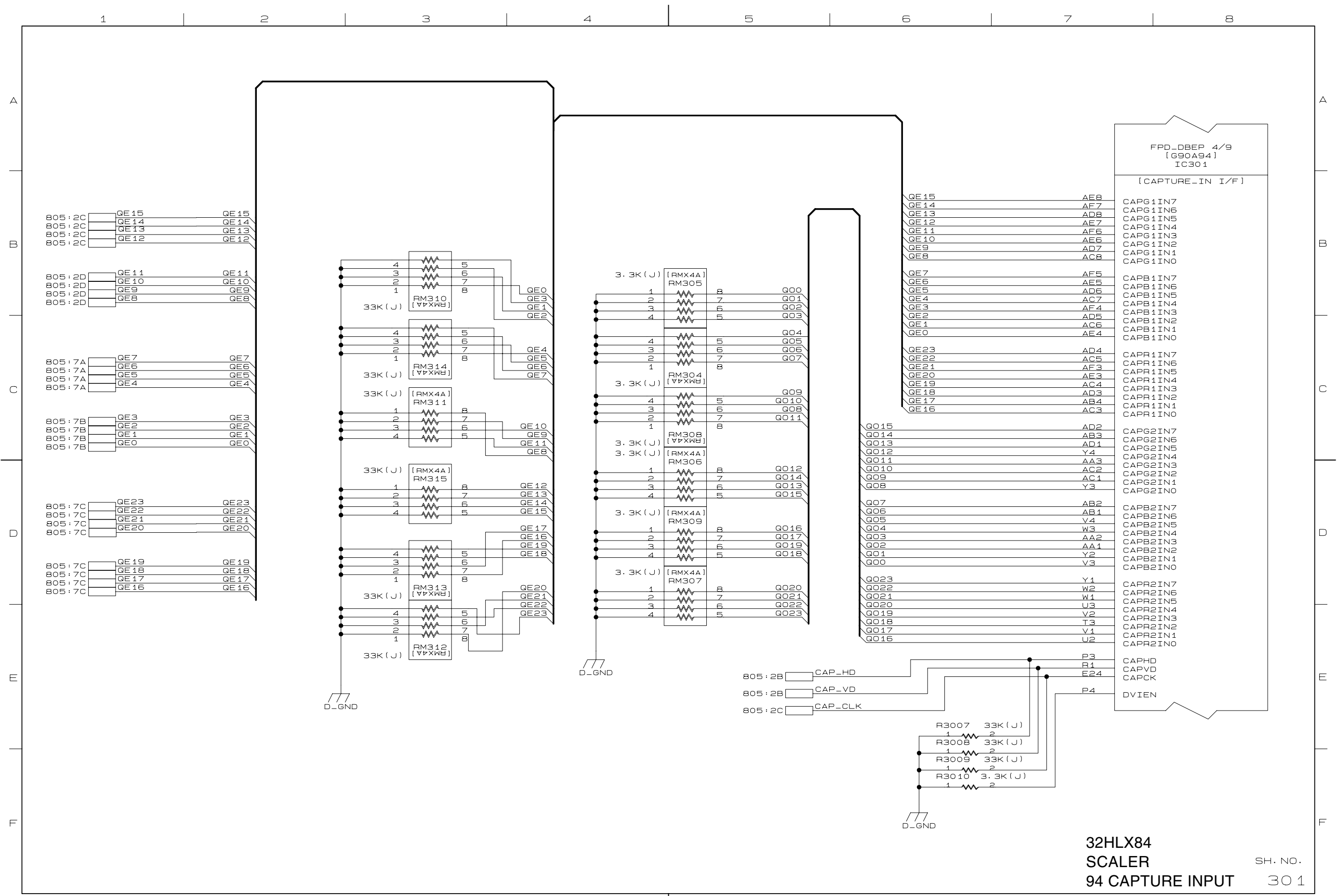
SH. NO.
 212



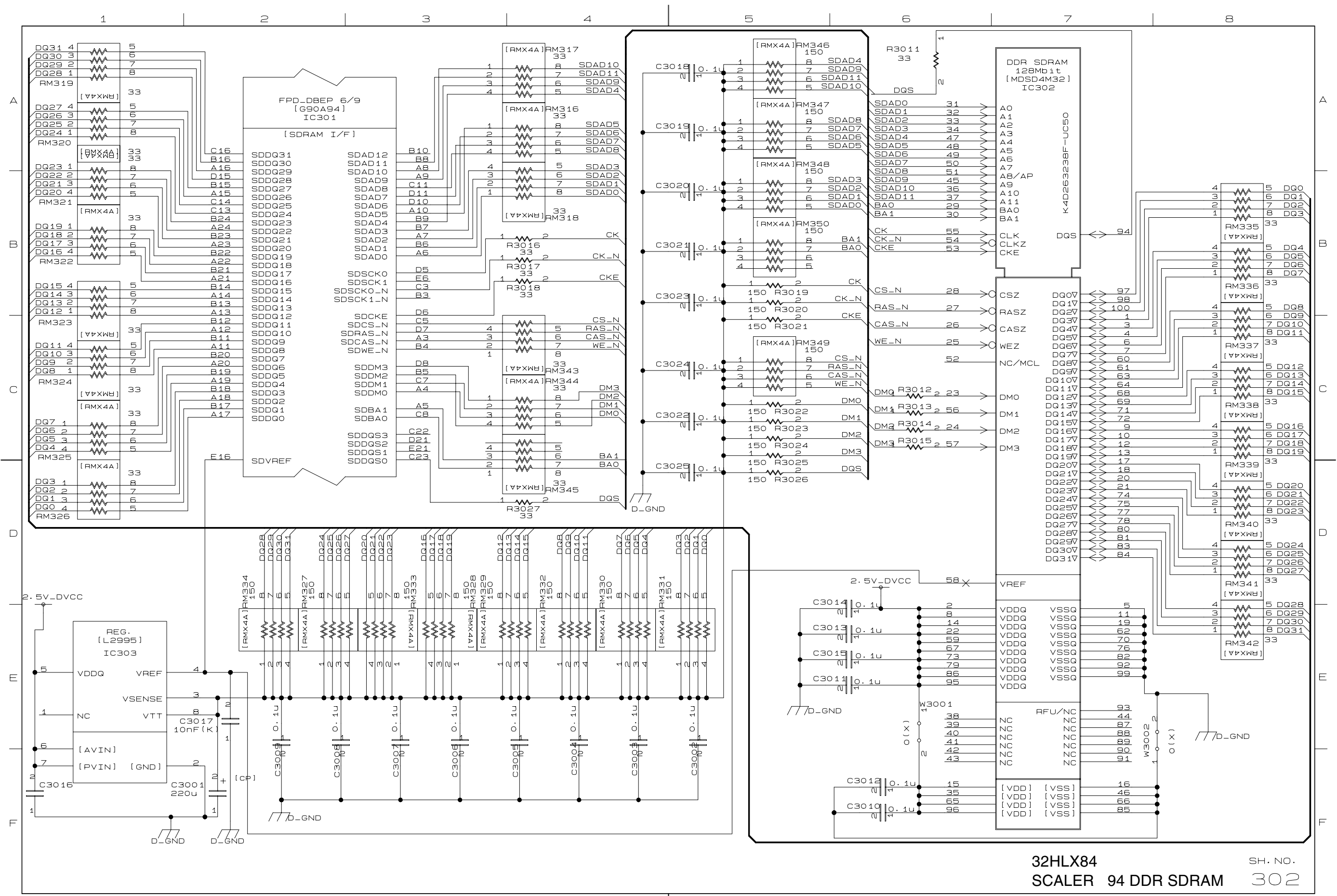
32HLX84
 SCALER
 GENESIS_IIC
 SH. NO. 213



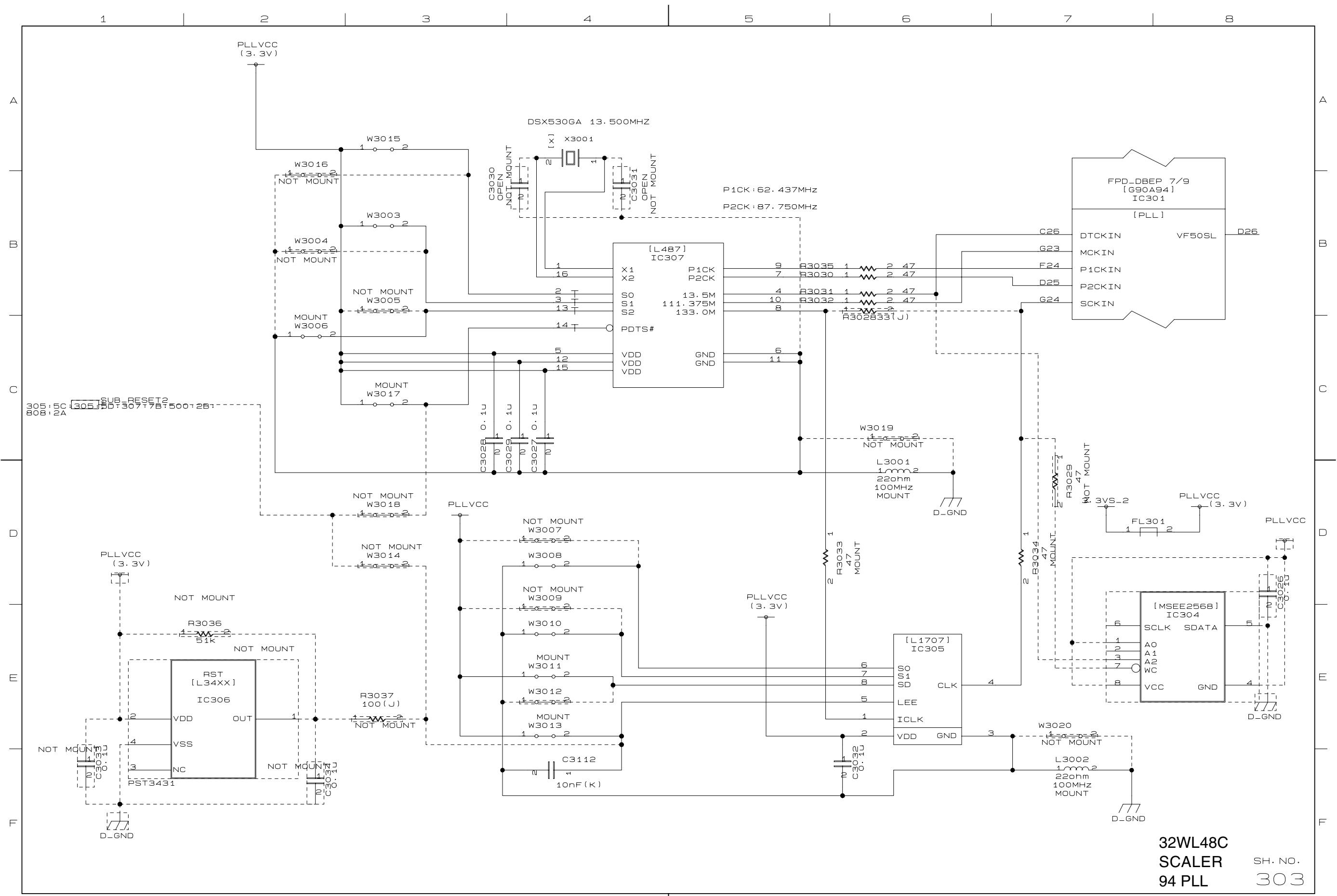
32HLX84
 SCALER
 94 DIGITAL INPUT
 SH. NO. 300

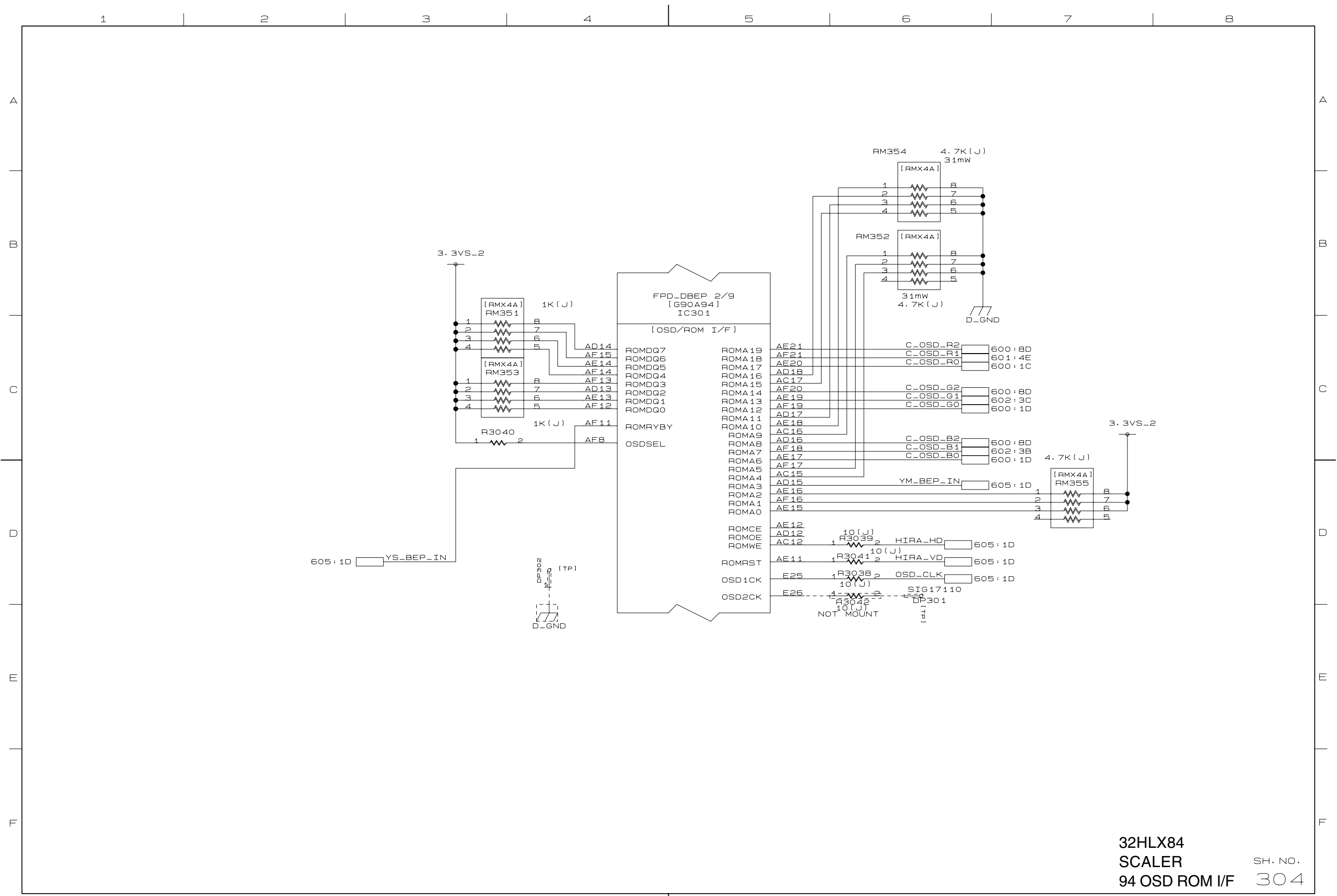


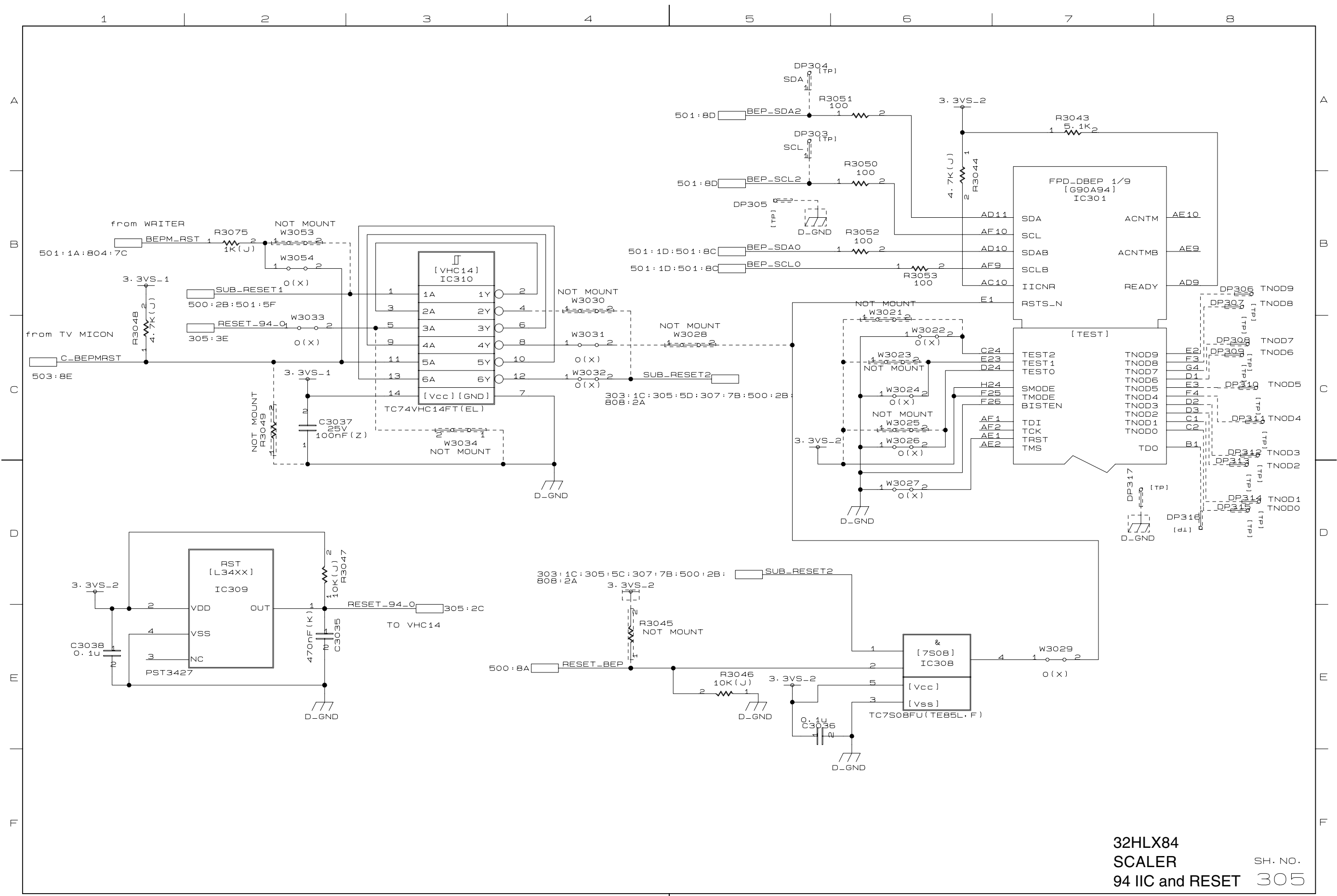
32HLX84
 SCALER
 94 CAPTURE INPUT
 SH. NO. 301



32HLX84
SCALER 94 DDR SDRAM
SH. NO. 302

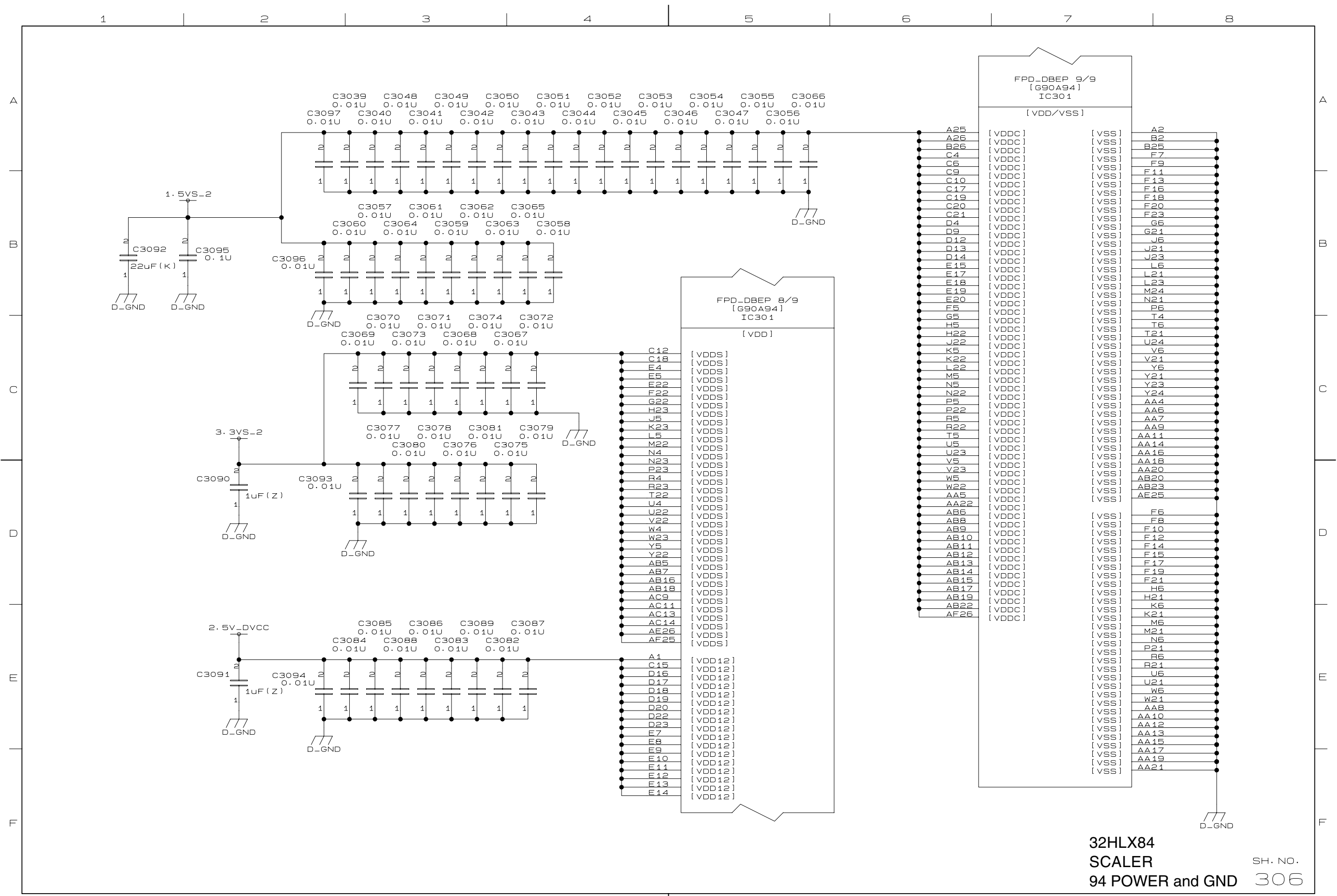






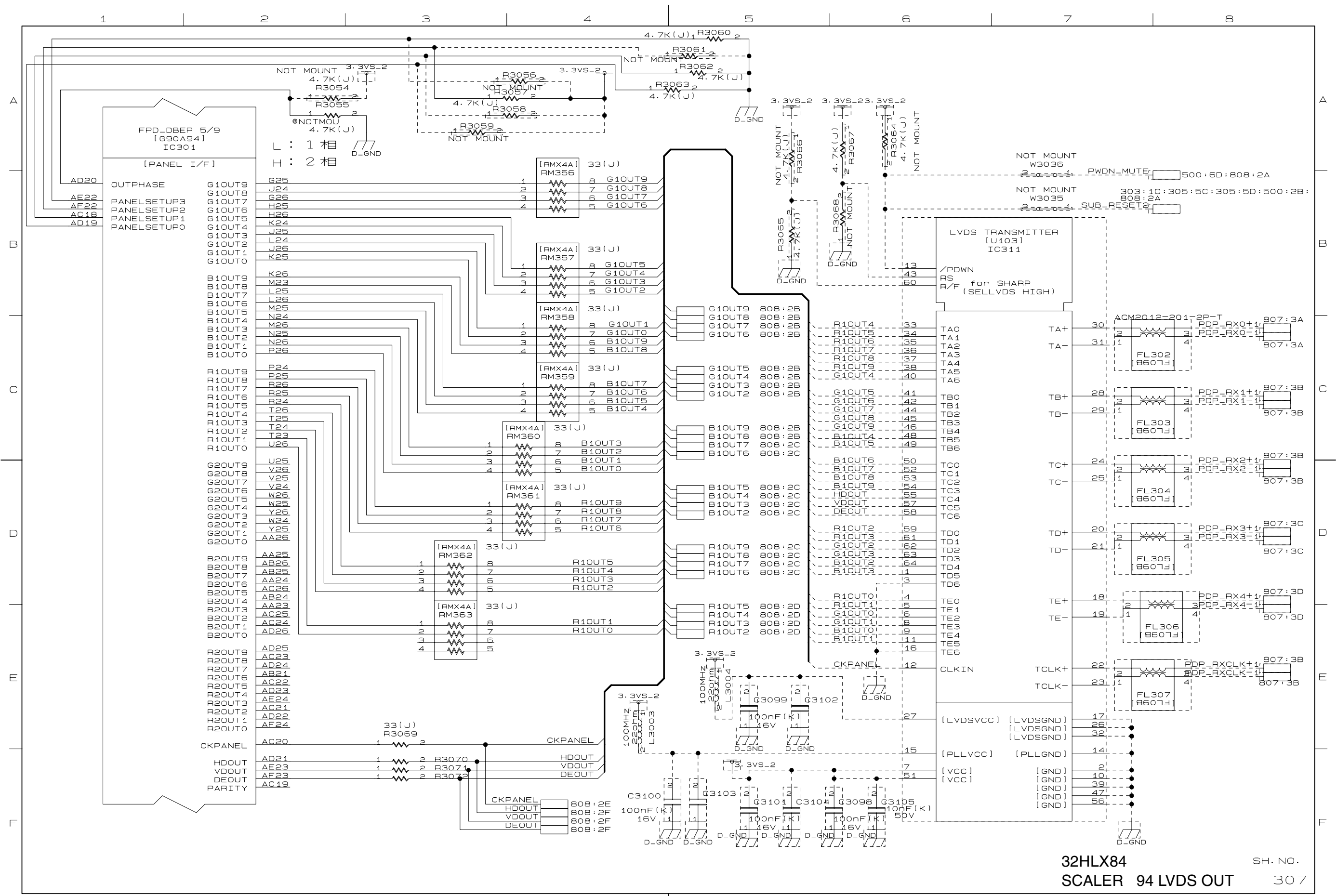
32HLX84
SCALER
94 IIC and RESET

SH. NO. **305**



32HLX84
SCALER
94 POWER and GND

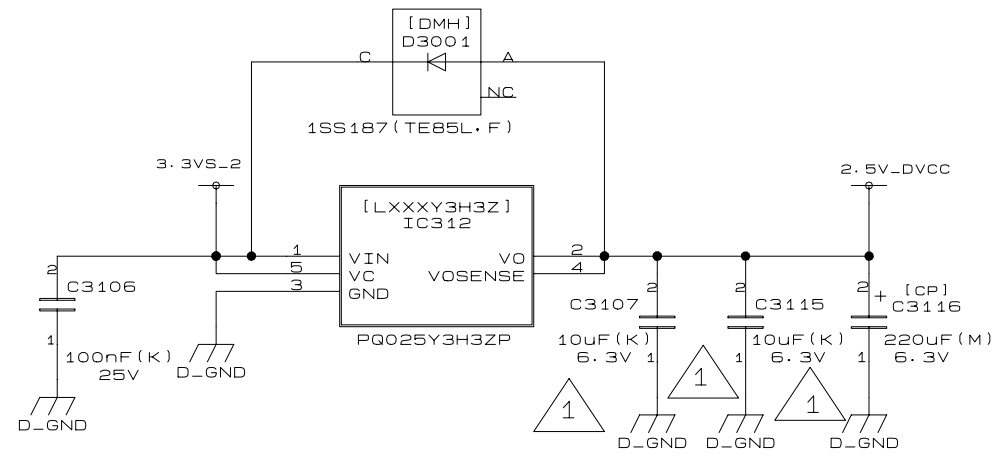
SH. NO.
306



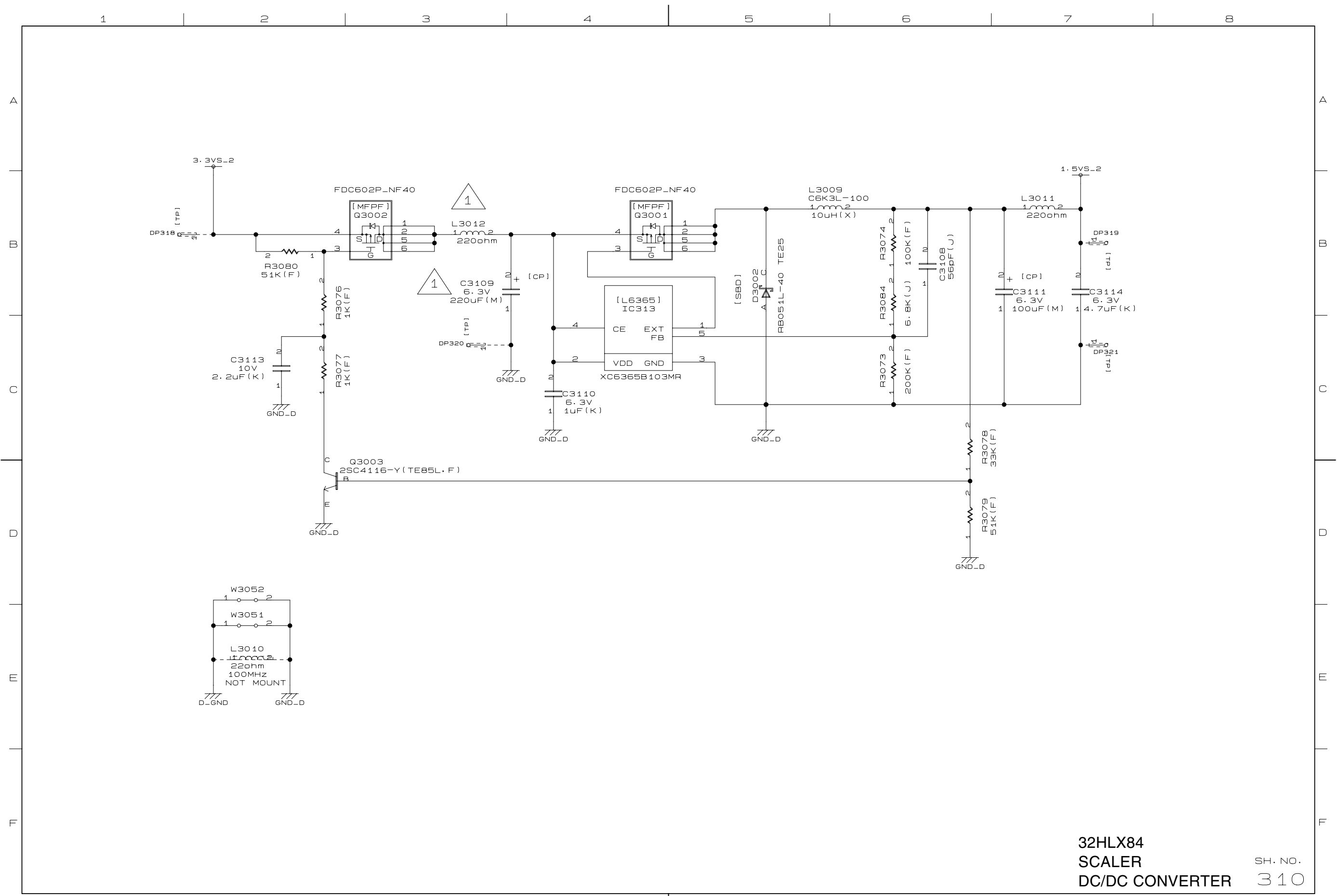
32HLX84
 SCALER 94 LVDS OUT
 SH. NO. 307

1 2 3 4 5 6 7 8

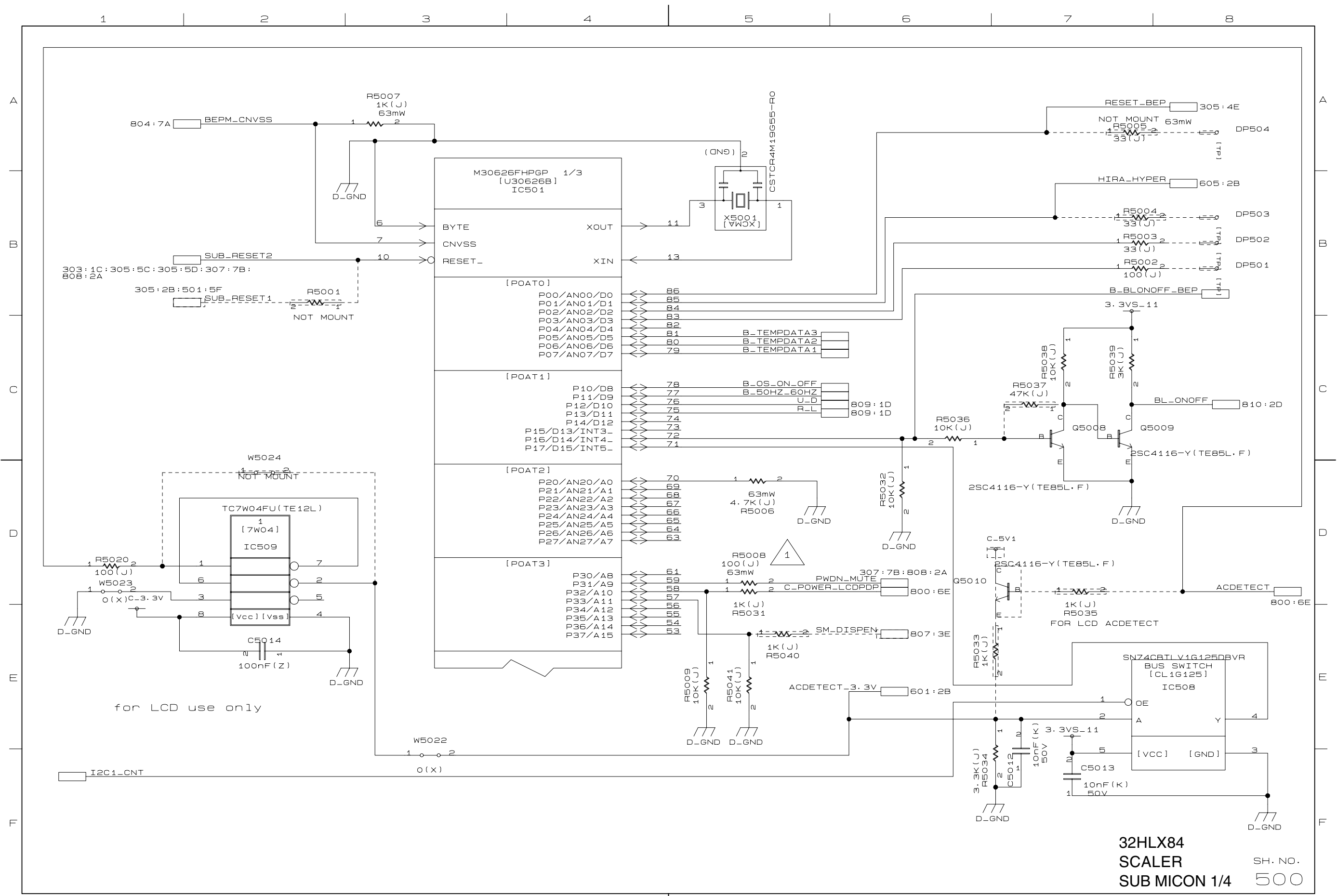
A
B
C
D
E
F



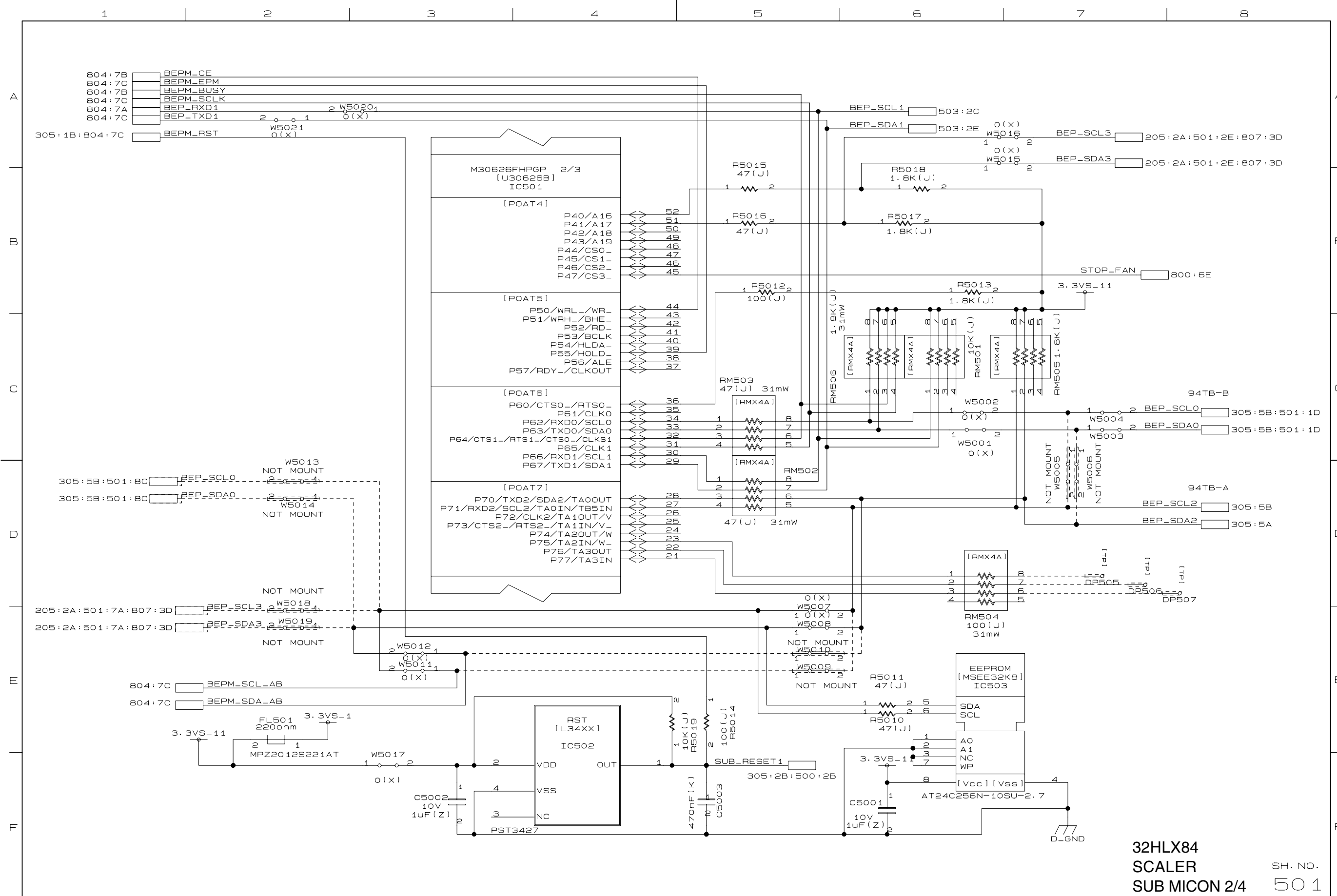
32HLX84
 SCALER SH. NO.
 2.5V reg. 308



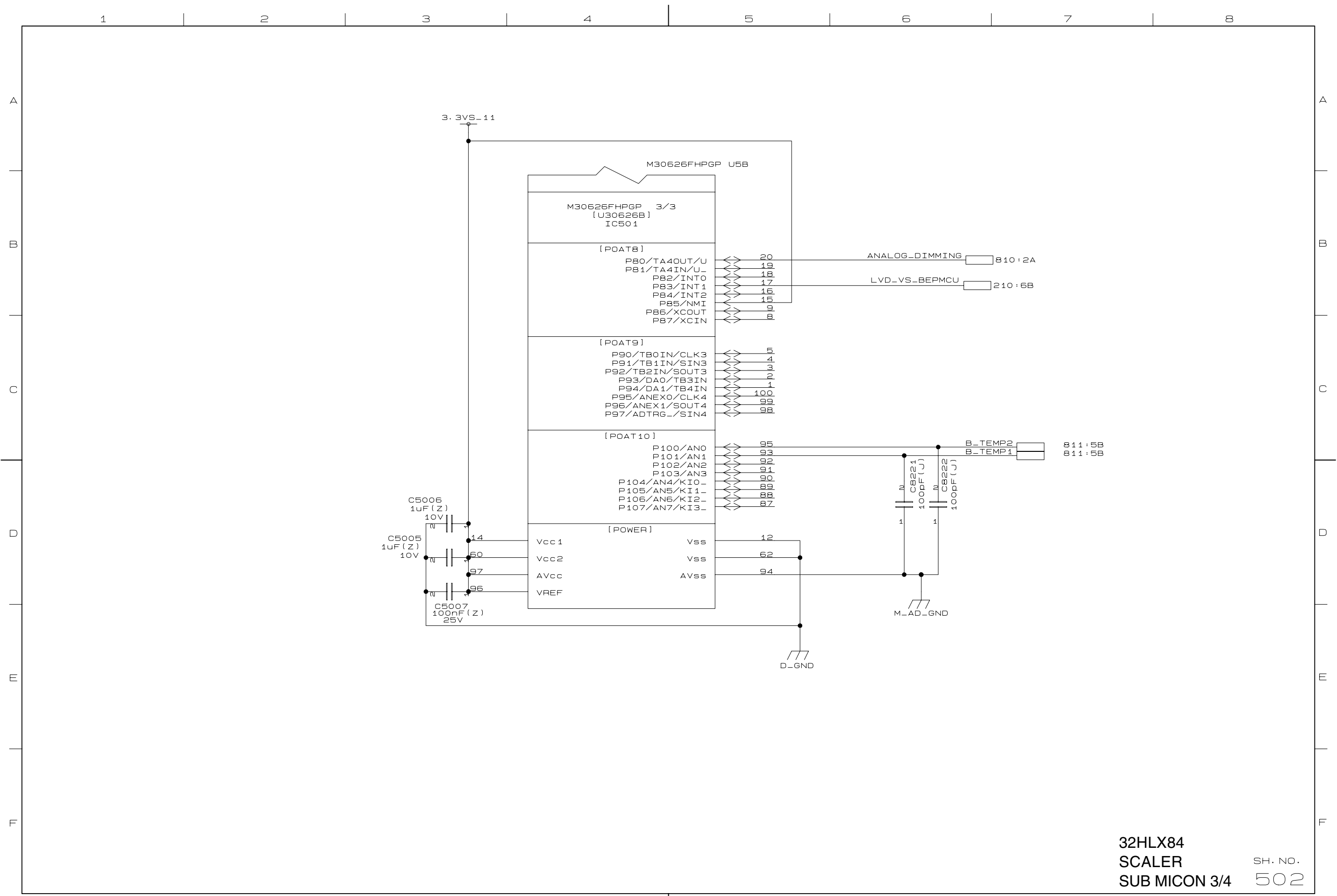
32HLX84
 SCALER
 DC/DC CONVERTER
 SH. NO.
 310



32HLX84
 SCALER
 SUB MICON 1/4
 SH. NO. 500

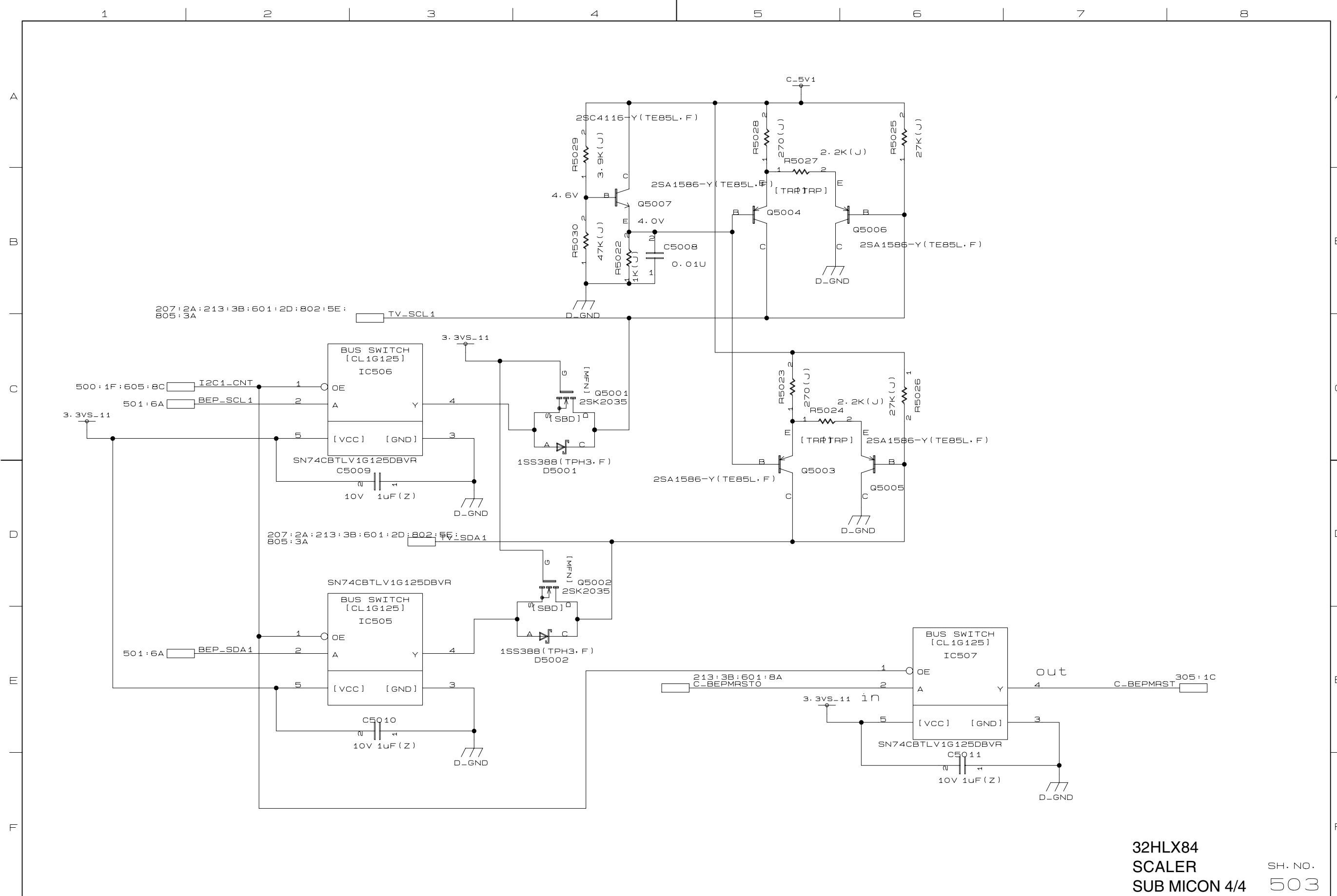


32HLX84
SCALER
SUB MICON 2/4
SH. NO. 501

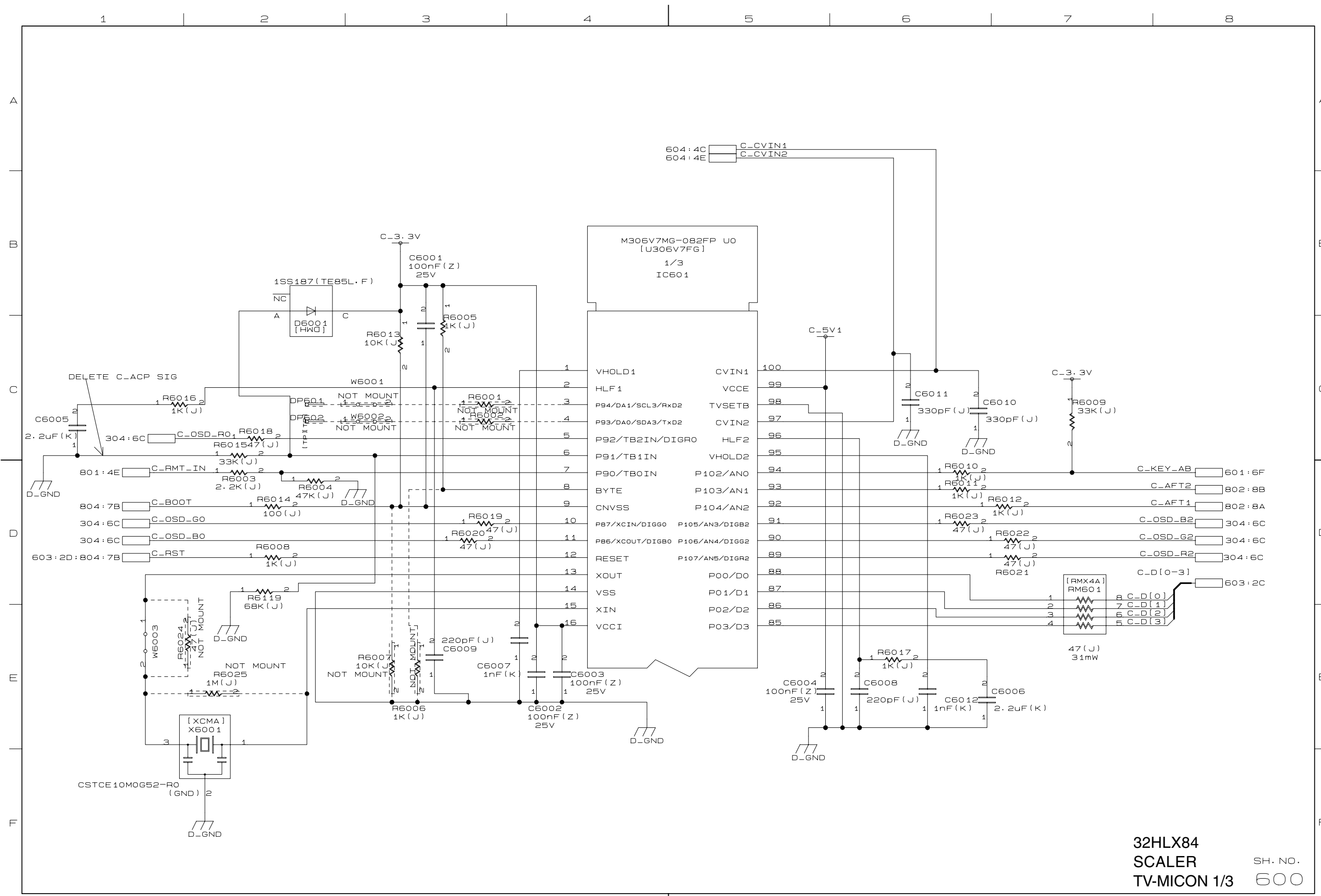


32HLX84
 SCALER
 SUB MICON 3/4

SH. NO.
 502

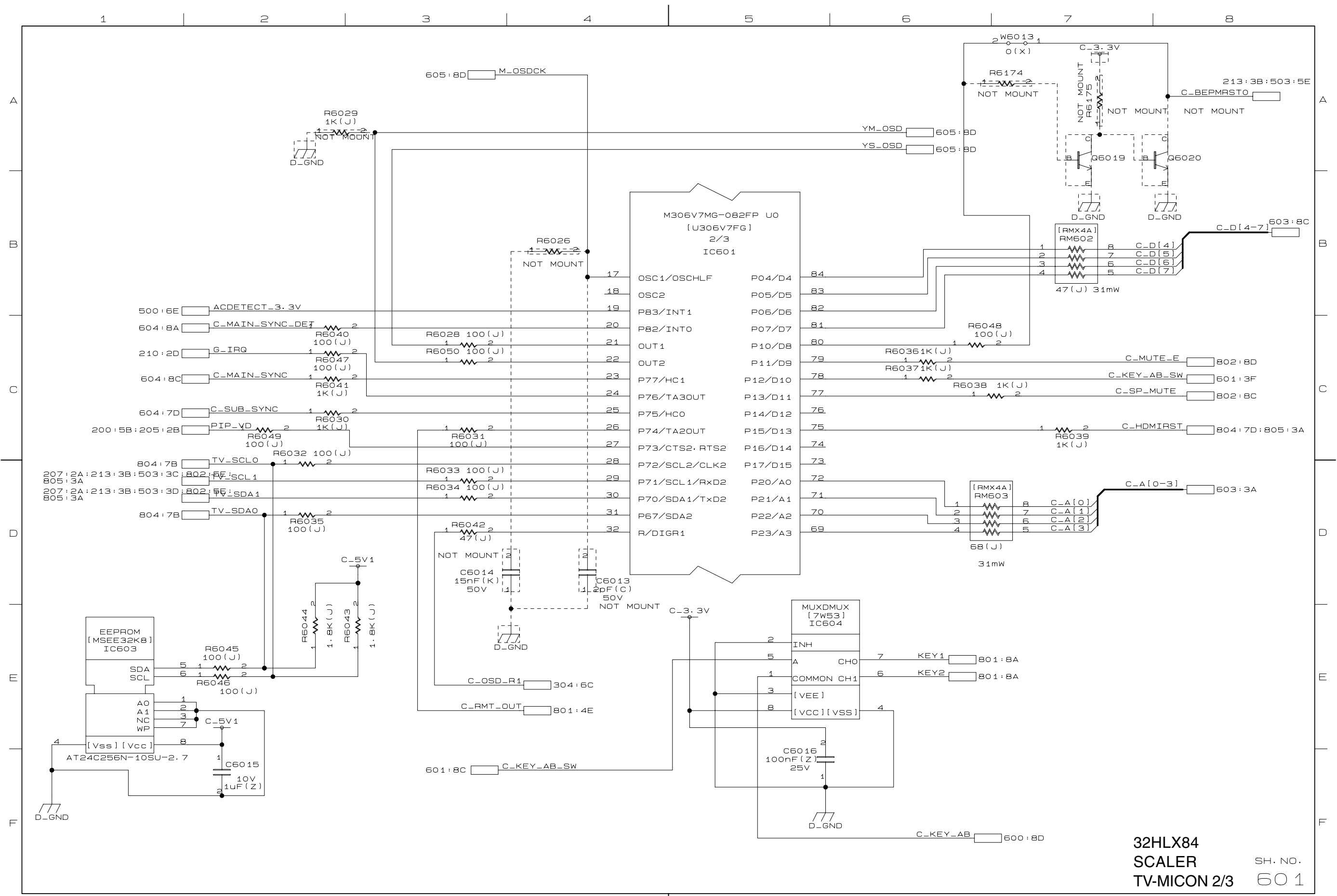


32HLX84
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 SUB MICON 4/4
 SH. NO.
 503

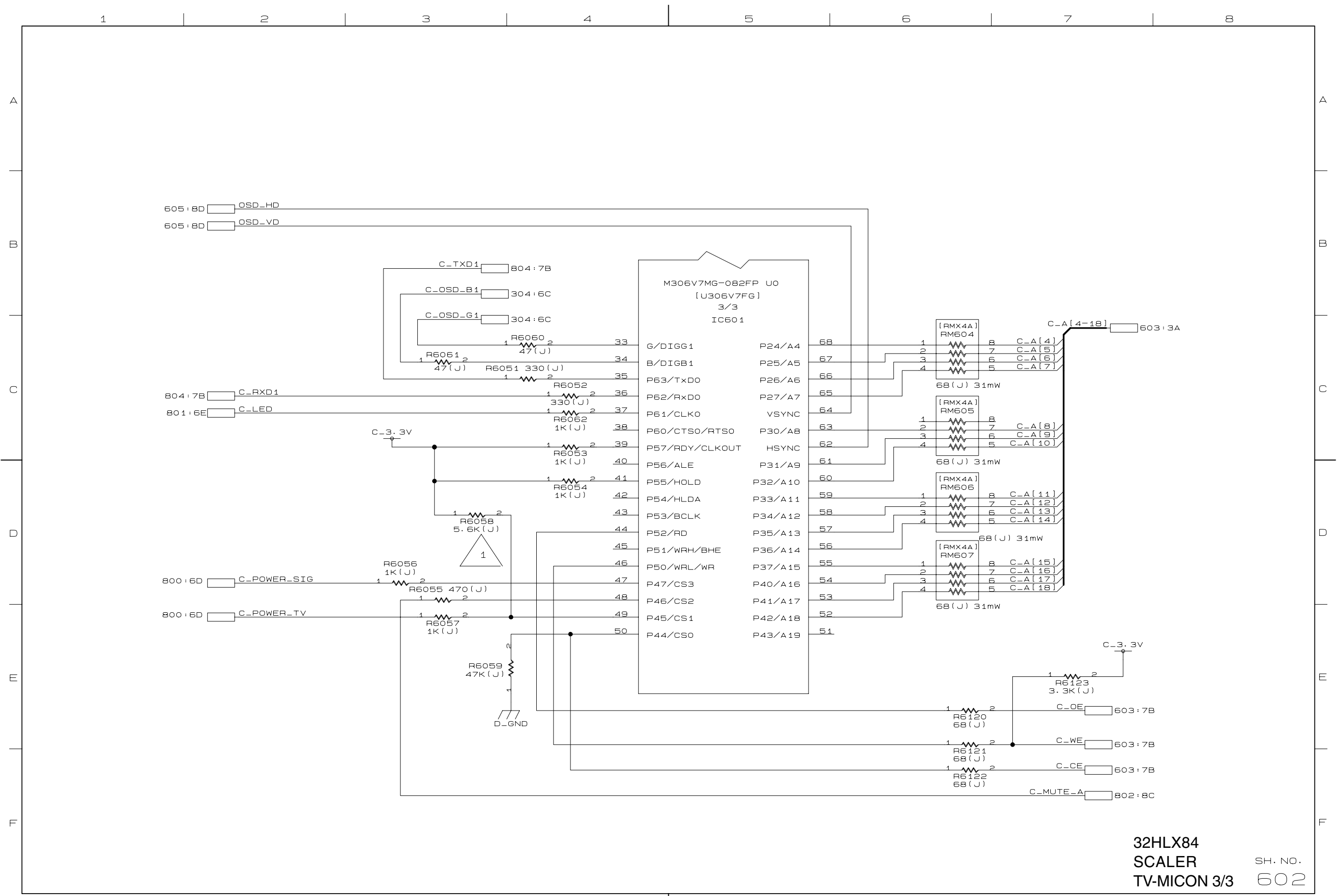


32HLX84
SCALER
TV-MICON 1/3

SH. NO.
600

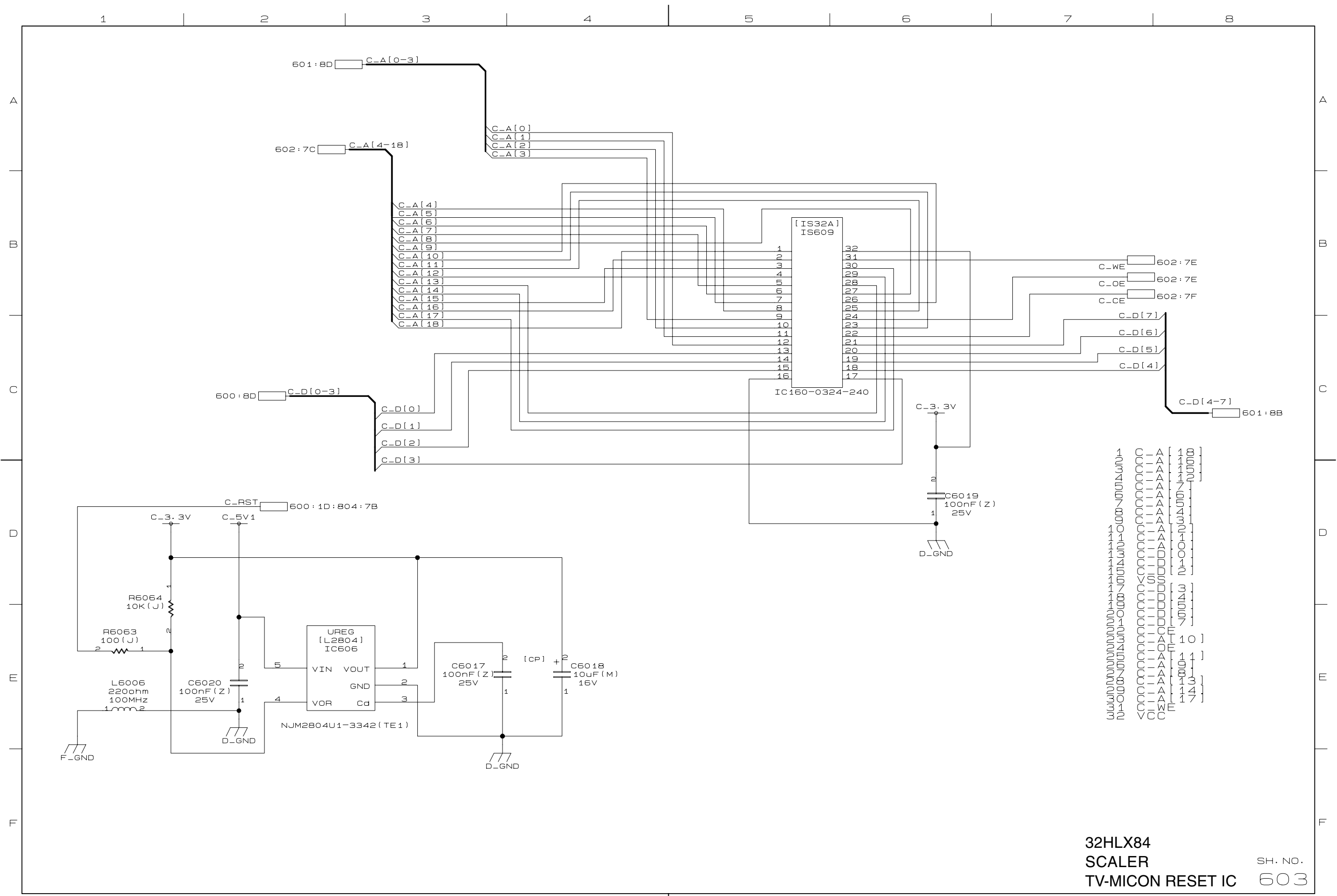


32HLX84
SCALER
TV-MICON 2/3
 SH. NO. **601**

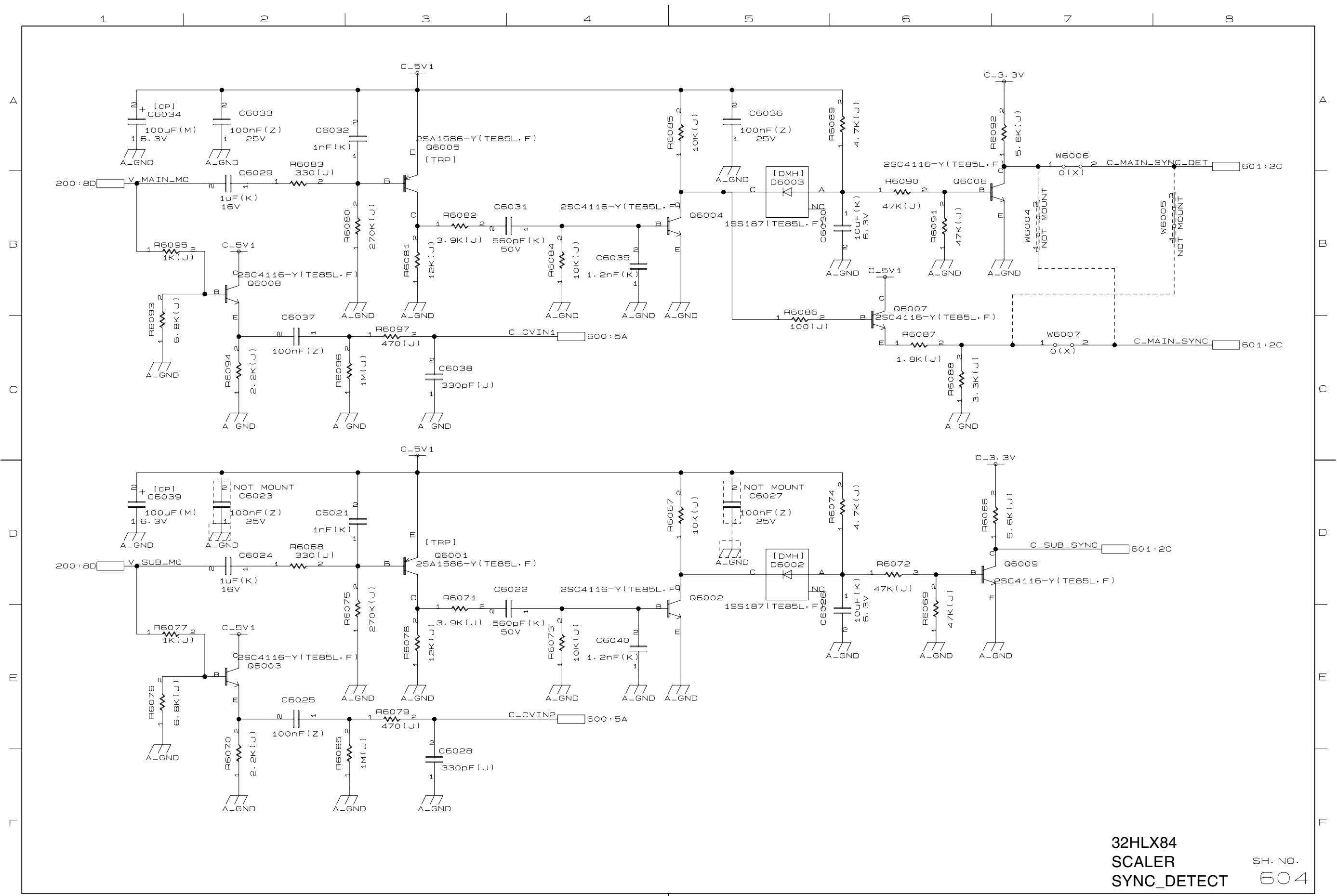


32HLX84
SCALER
TV-MICON 3/3

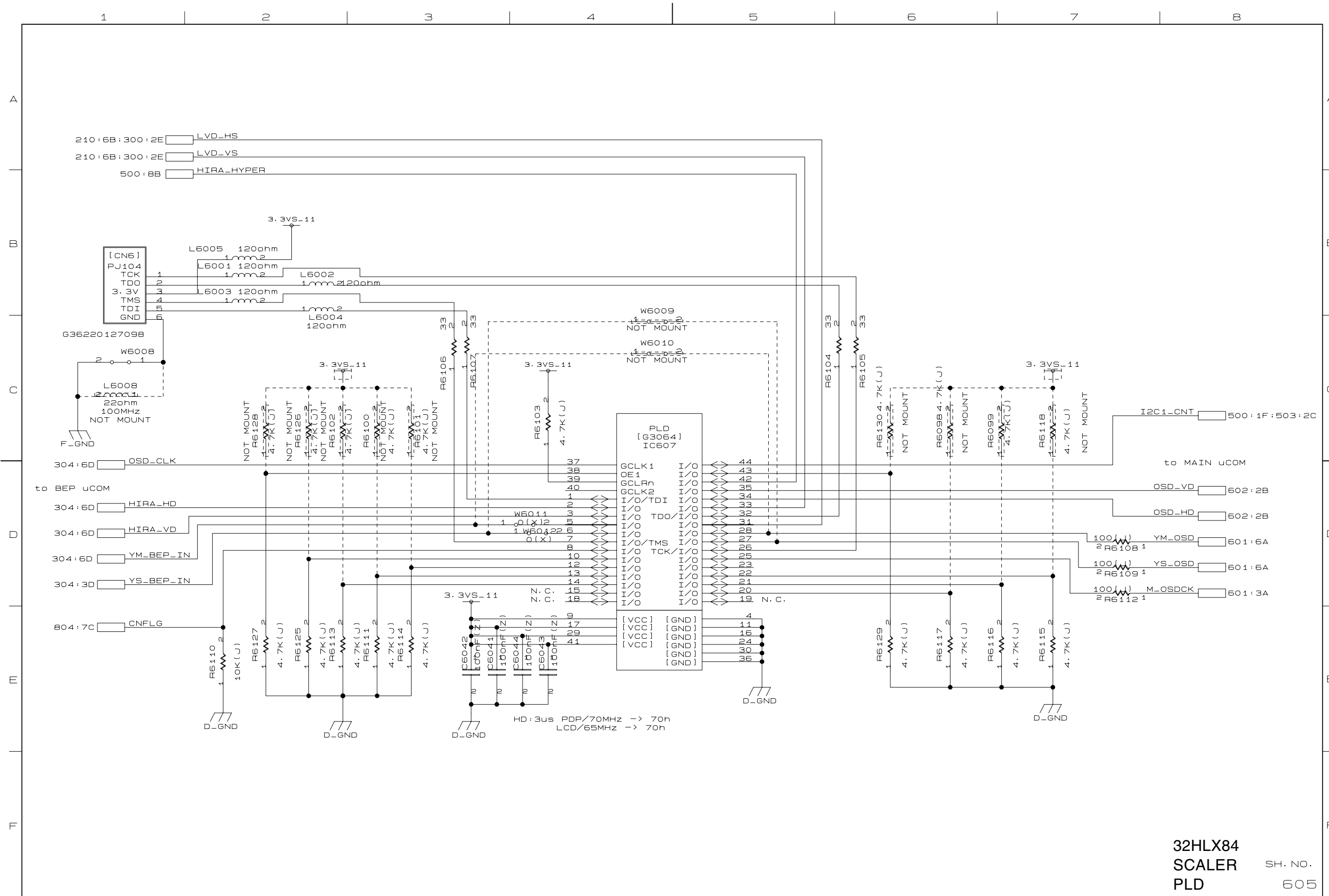
SH. NO.
602

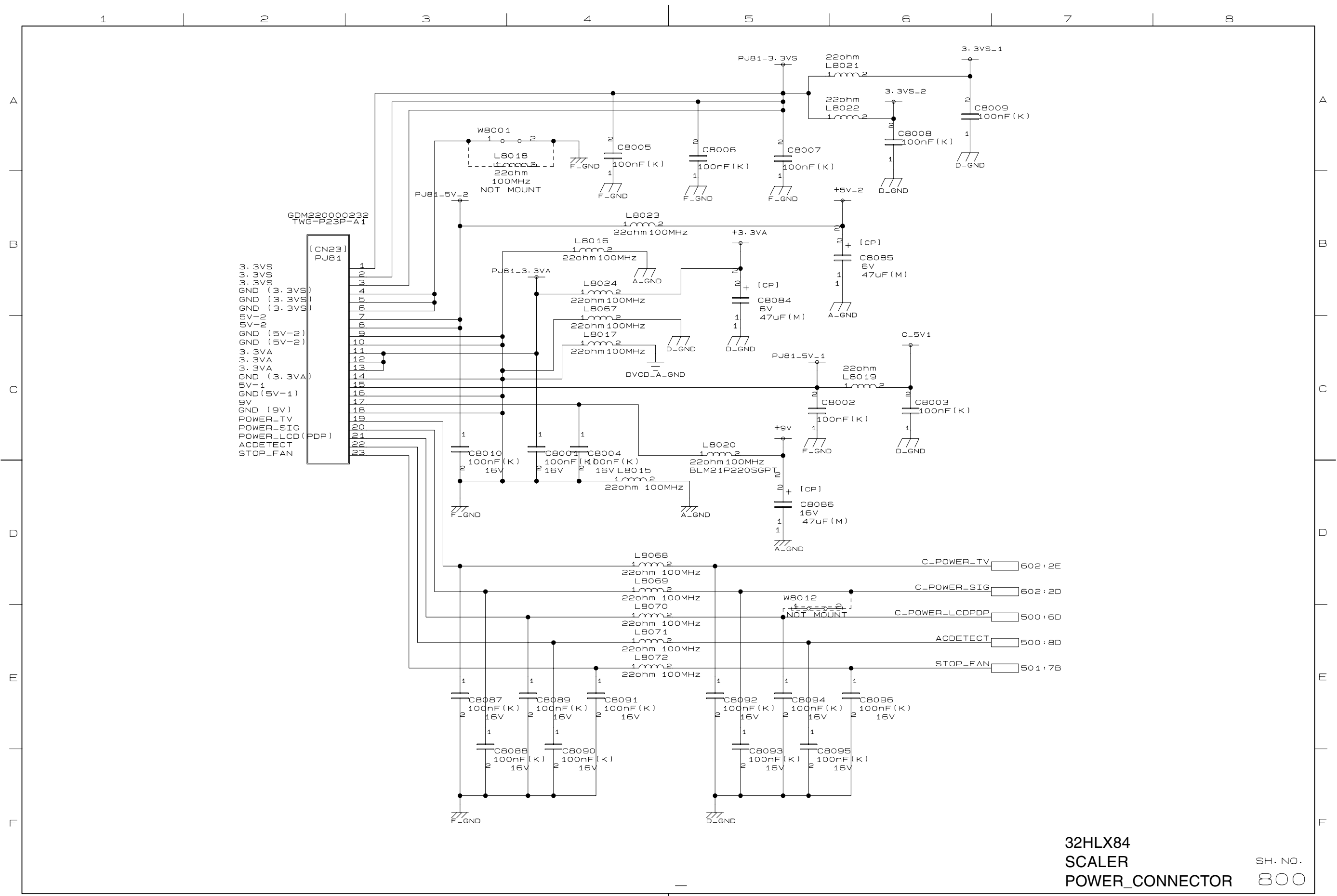


32HLX84
 SCALER
 TV-MICON RESET IC
 SH. NO. 603



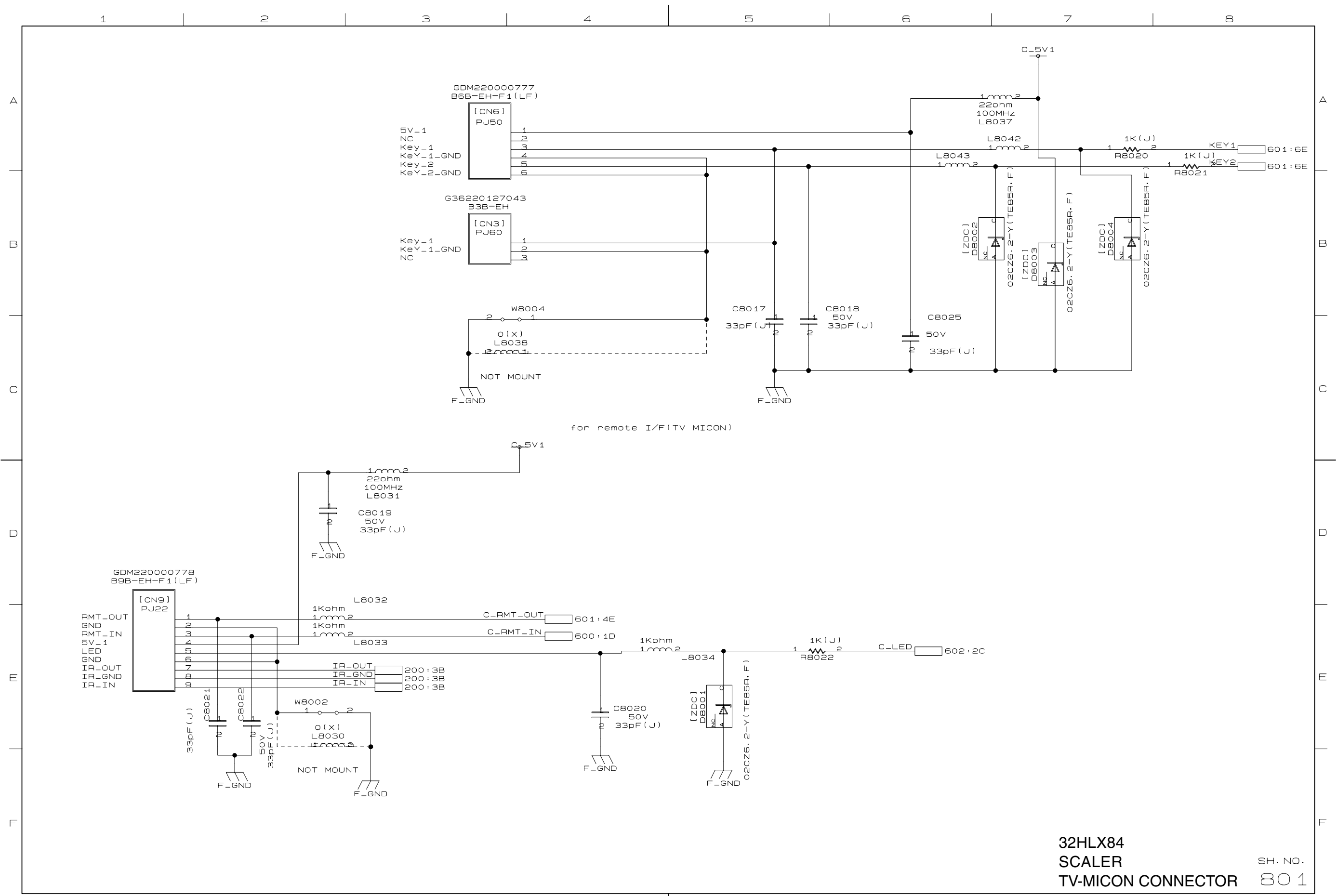
32HLX84
 SCALER
 SYNC_DETECT
 SH. NO.
 604





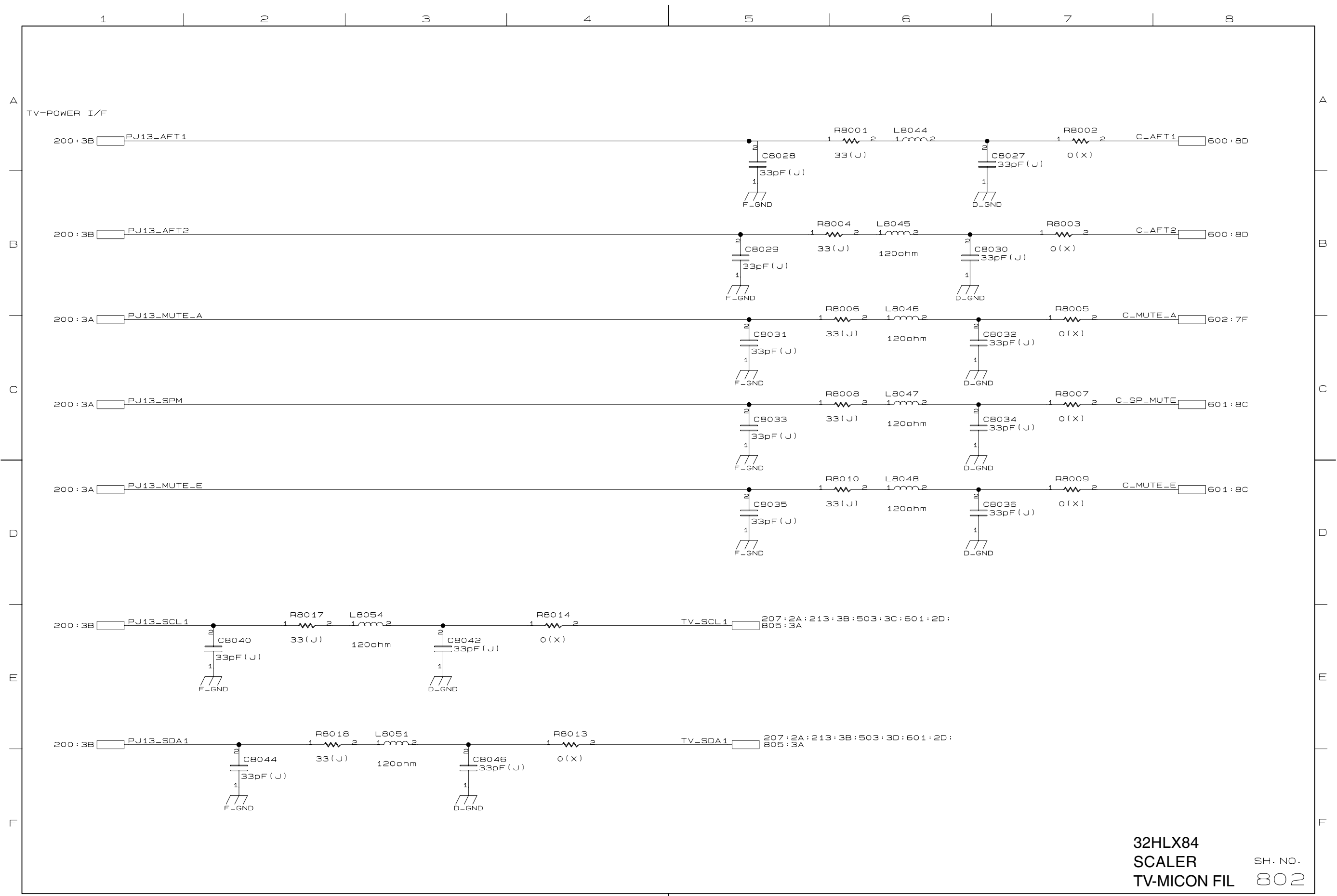
32HLX84
 SCALER
 POWER_CONNECTOR

SH. NO.
 800

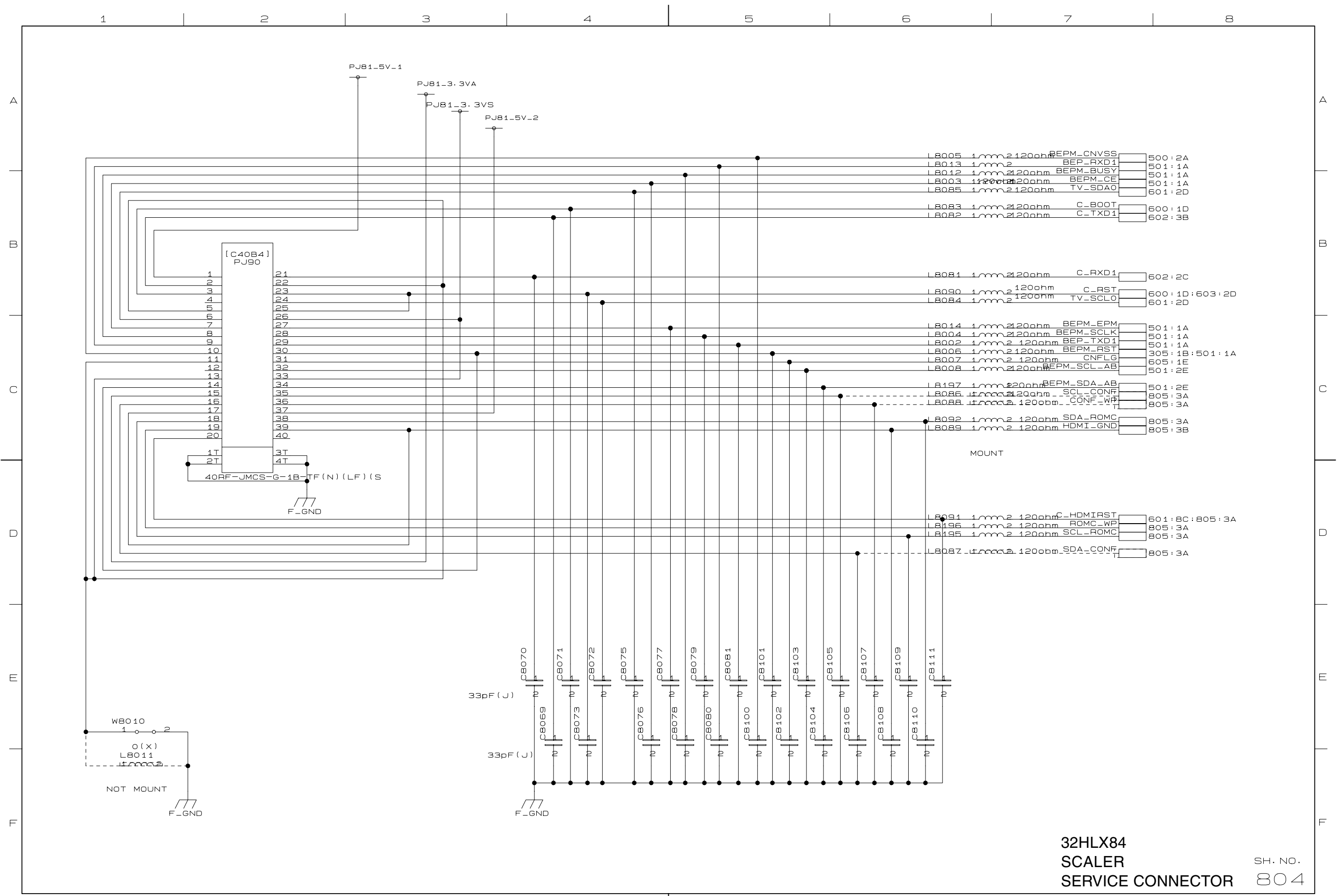


32HLX84
SCALER
TV-MICON CONNECTOR

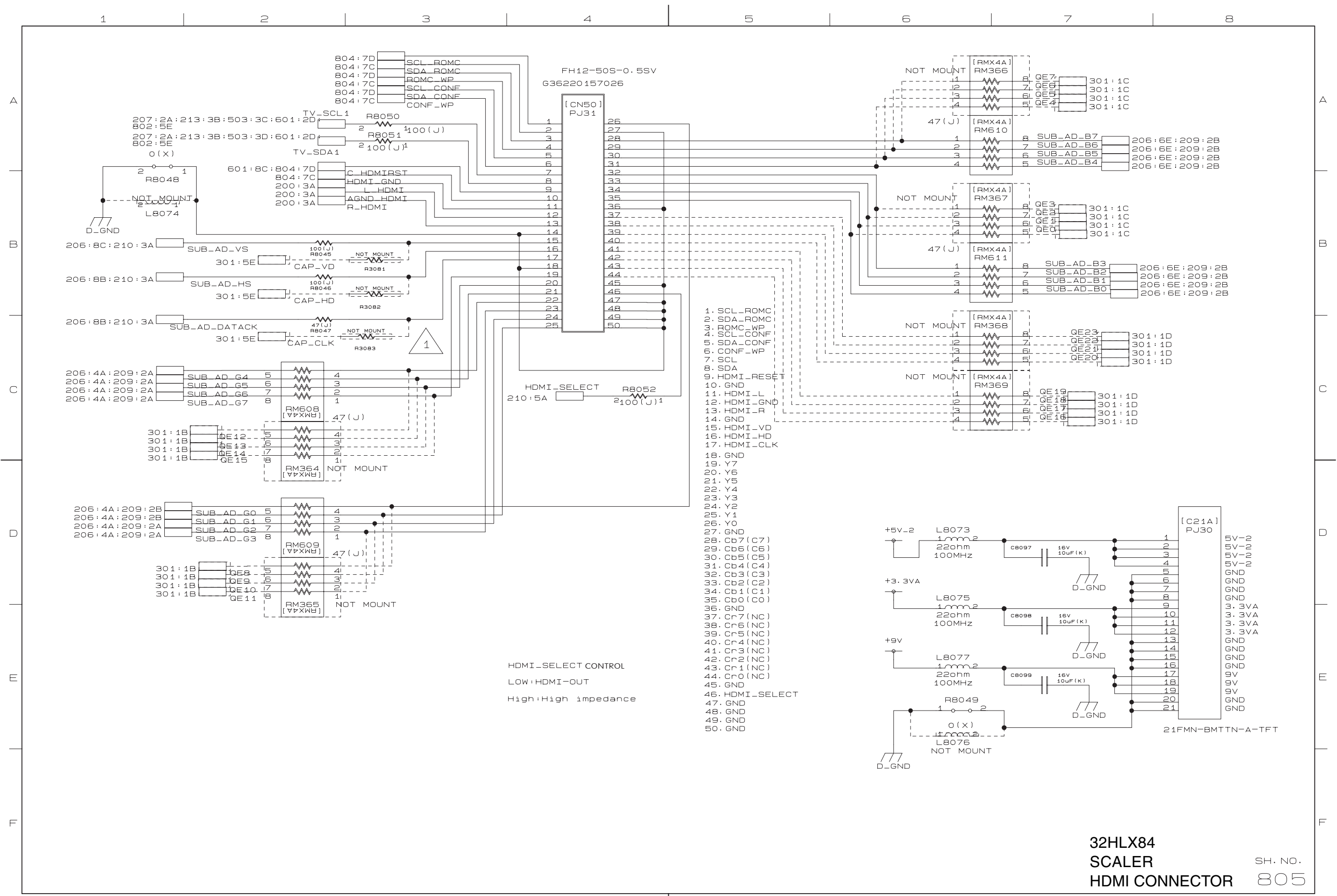
SH. NO.
801



32HLX84
 SCALER
 TV-MICON FIL
 SH. NO. 802

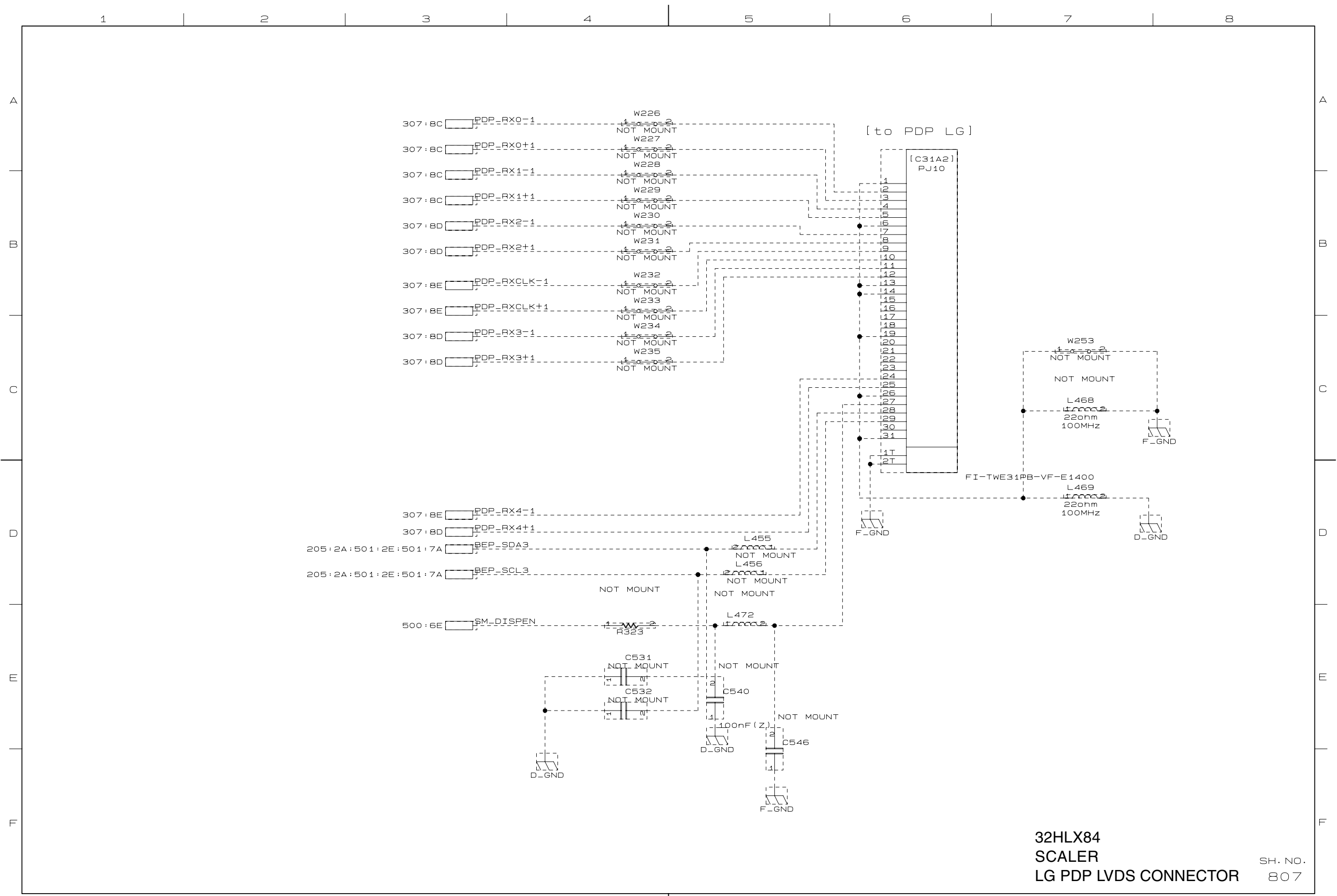


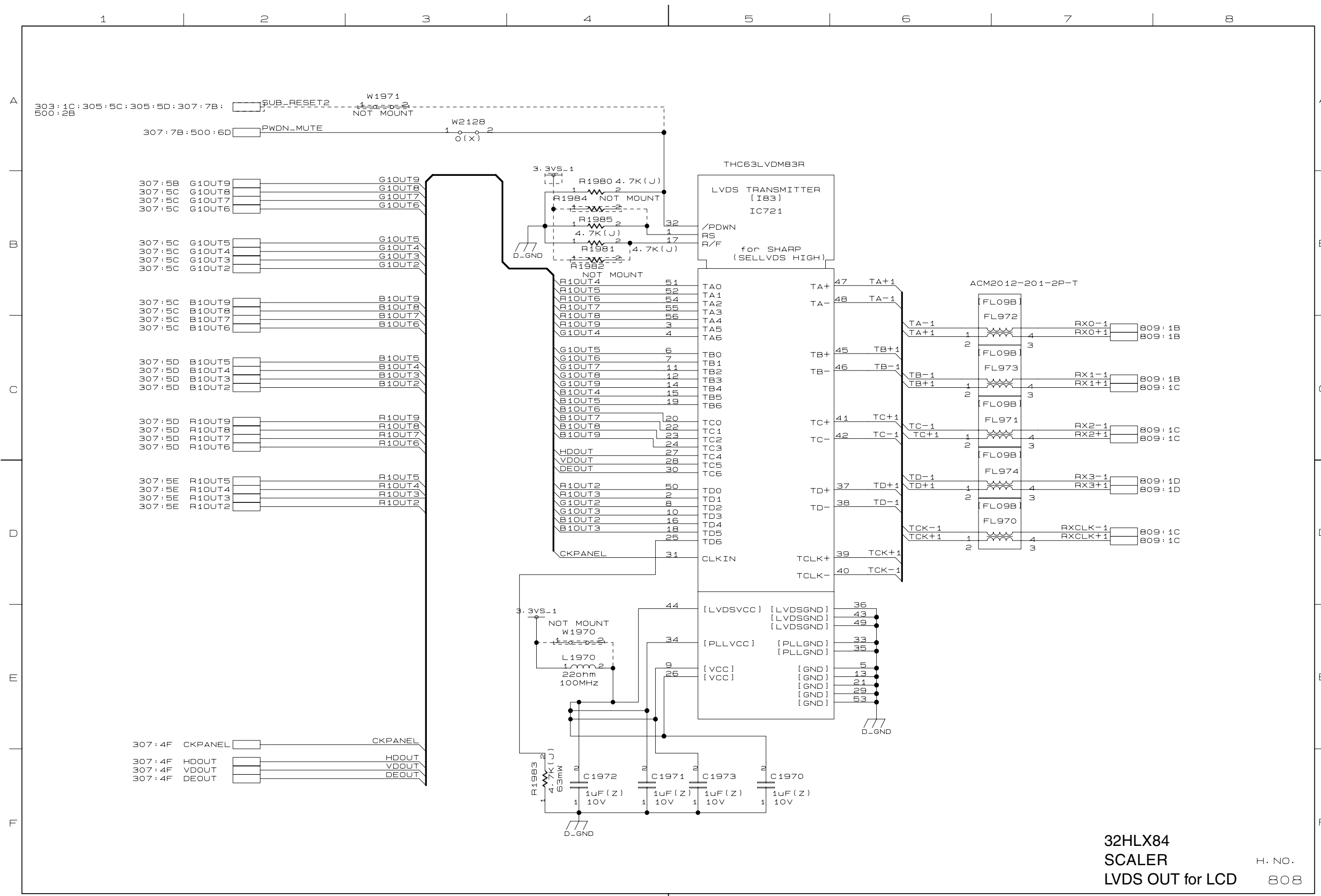
32HLX84
 SCALER
 SERVICE CONNECTOR
 SH. NO. 804



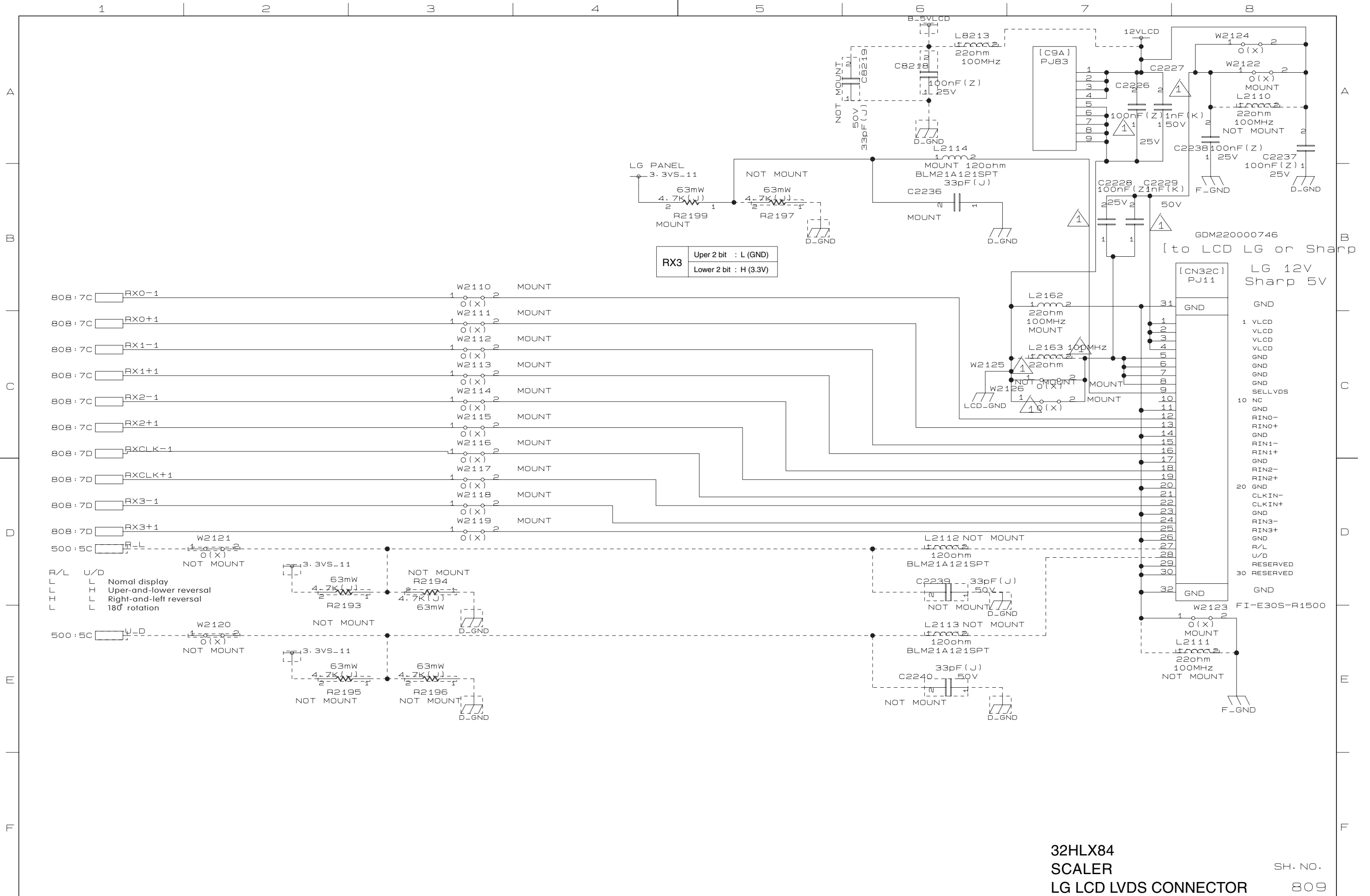
32HLX84
SCALER
HDMI CONNECTOR

SH. NO.
805



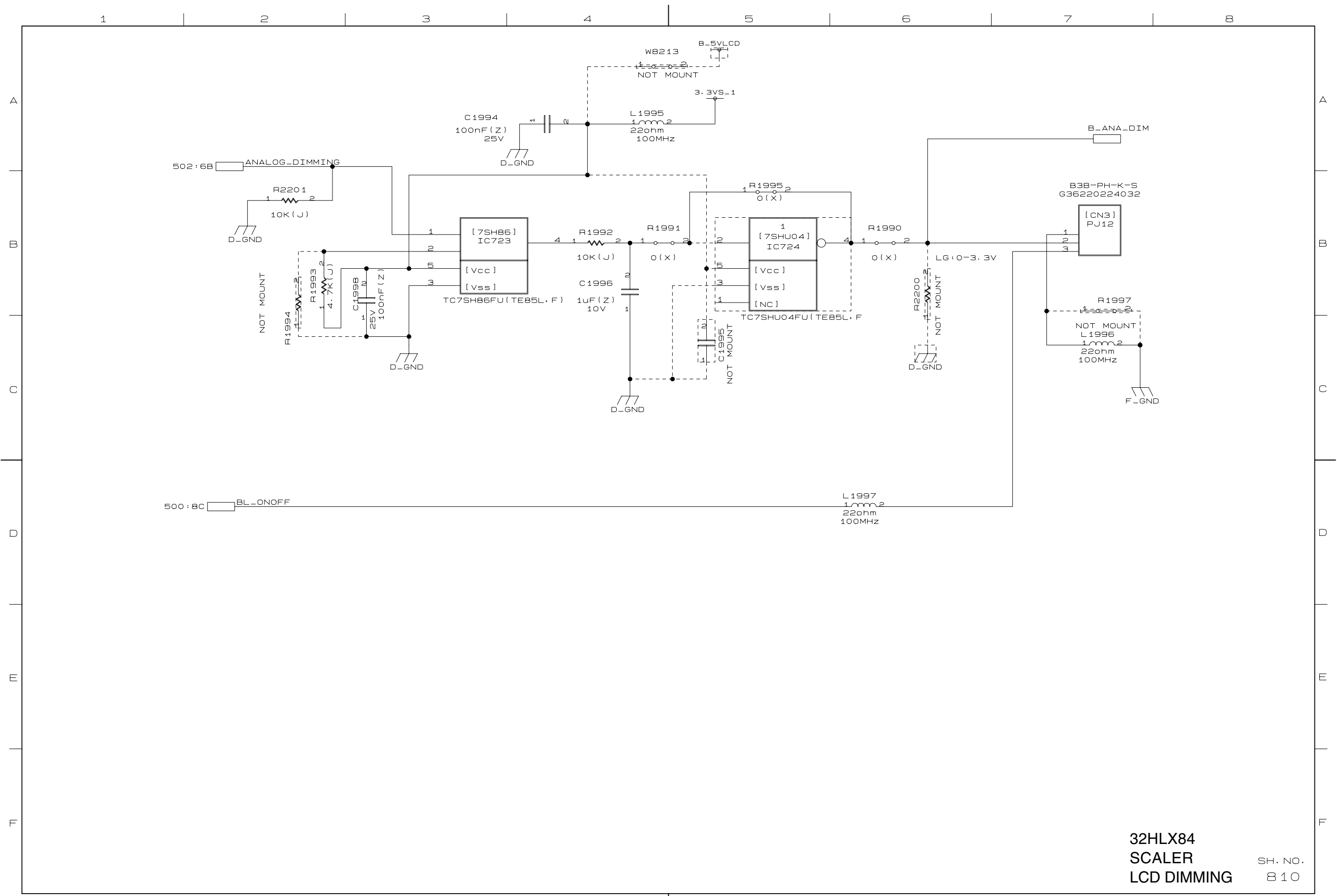


32HLX84
 SCALER
 LVDS OUT for LCD
 H. NO. 808



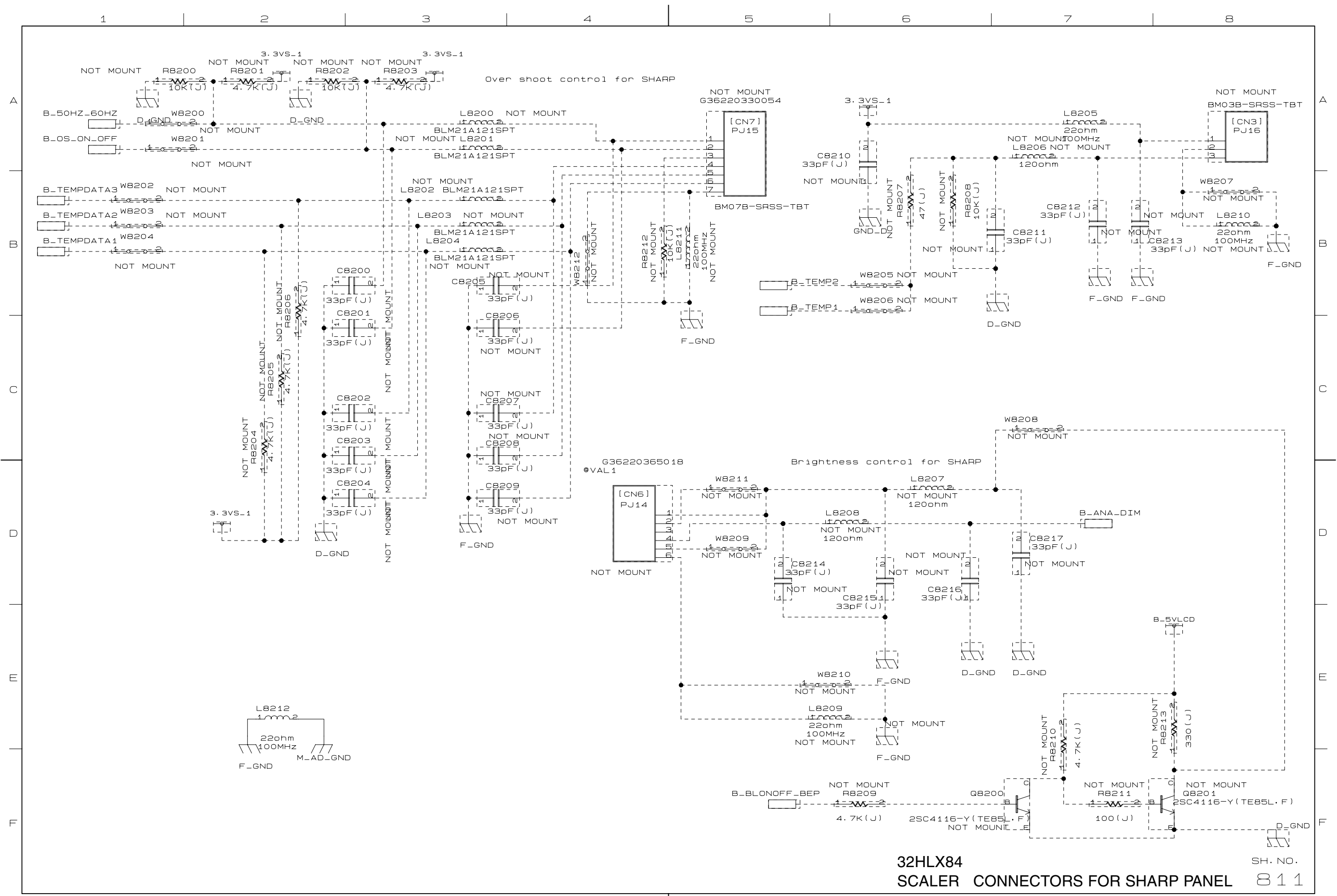
**32HLX84
SCALER
LG LCD LVDS CONNECTOR**

SH. NO.
809



32HLX84
SCALER
LCD DIMMING

SH. NO.
 810



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