

8		7		6		5		4		3		2		1				
1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.												REV	ZONE	ECN	DESCRIPTION OF CHANGE	CK APPD DATE	ENG APPD DATE	
												?		?	?	?	?	
Q16 INTERFACE BOARD																		D
920-0120-03 (PCB																		C
951-0246-03 (SCHEMATICS)																		
12/21/2002 REV 1 TEF 3/20/2003 REV 2 TEF 6/23/2003 REV 3 WF 7/17/2003 REV 4 WF																		
																		B
																		A
8		7		6		5		4		3		2		1				

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5	DEBUG CIRCUIT FOR INTERFACE BOARD
6	VOLTAGE MARGIN CIRCUIT
7	BATTERY AND SERIAL INPUT INTERFACE
8	POR/PMU SWITCHES
9	V-IN AND BACK-UP BATTERY CURRENT SENSING CIRCUIT
10	FIREWIRE-A SWITCHING CONTROL CIRCUIT
11	FIREWIRE-B SWITCHING CONTROL CIRCUIT
12	ETHERNET SWITCHING CONTROL CIRCUIT
13	DVI AND SVIDEO CONNECTOR. BUFFERS FOR SVGA IN DVI CONNECTOR
14	SOUND INTERFACE CIRCUIT
15	BATTERY BACK-UP, BLUETOOTH, USB AND FAN CONNECTORS. FIREWIRE-A LOAD CIRCUITRY
16	WIRELESS, DVD, LVDS, MODEM, KEYBOARD, TRACKPAD, AND BACKLIGHT CONNECTORS
17	CHEESE BOX/SVGA SWITCH CONTROL AND EXTERNAL VGA CONNECTORS
18	TEST POINTS
19	TEST POINTS

DIMENSIONS ARE IN MILLIMETERS		METRIC		Apple Computer Inc.	
XX :		DRAFTER	DESIGN CK	NOTICE OF PROPRIETARY PROPERTY	
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THIRD ANGLE PROJECTION		MATERIAL/FINISH NOTED AS APPLICABLE		SIZE D	TITLE Q16 INTERFACE BOARD
				DRAWING NUMBER 951-0246	REV. 2
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17	CHEESE BOX/SVGA SWITCH CONTROL AND EXTERNAL VGA CONNECTORS
18	TEST POINTS
19	TEST POINTS

DIMENSIONS ARE IN MILLIMETERS


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X.XX : \_\_\_\_\_

X.XXX : \_\_\_\_\_

ANGLES : \_\_\_\_\_


DO NOT SCALE DRAWING



THIRD ANGLE PROJECTION

METRIC

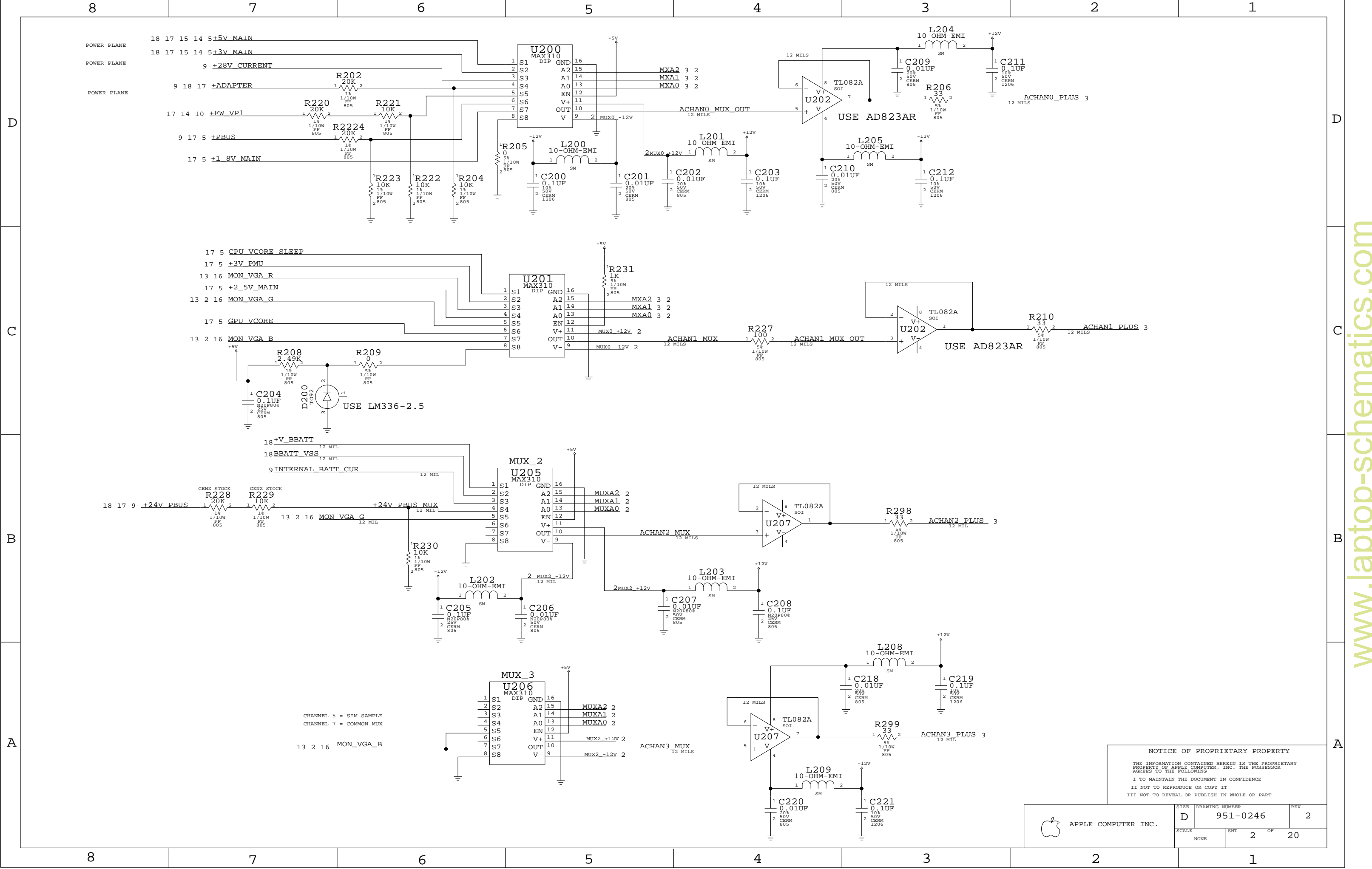
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ENG APPD	/	MFG APPD	/
QA APPD	/	DESIGNER	/
RELEASE	/	SCALE	NONE
MATERIAL/FINISH NOTED AS APPLICABLE		SIZE	D

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TITLE  
Q16 INTERFACE BOARD

DRAWING NUMBER	951-0246	REV.	2
SHT		1	OF 20



D

C

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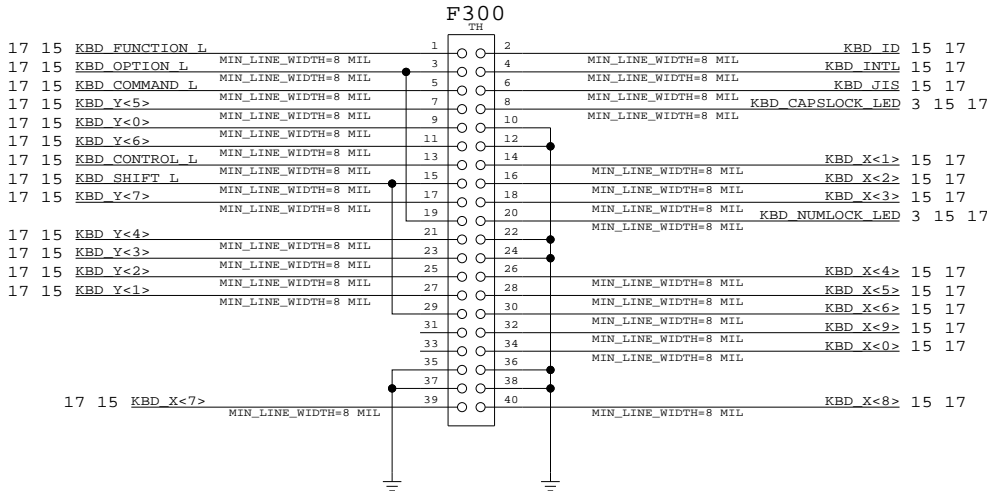
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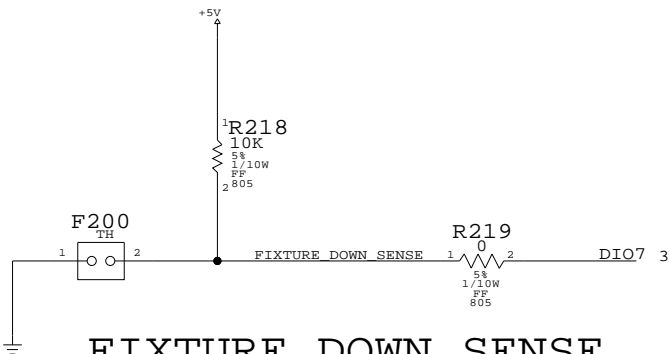
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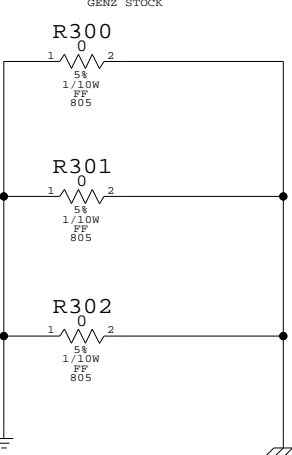
KEYBOARD SIMULATOR CONNECTOR



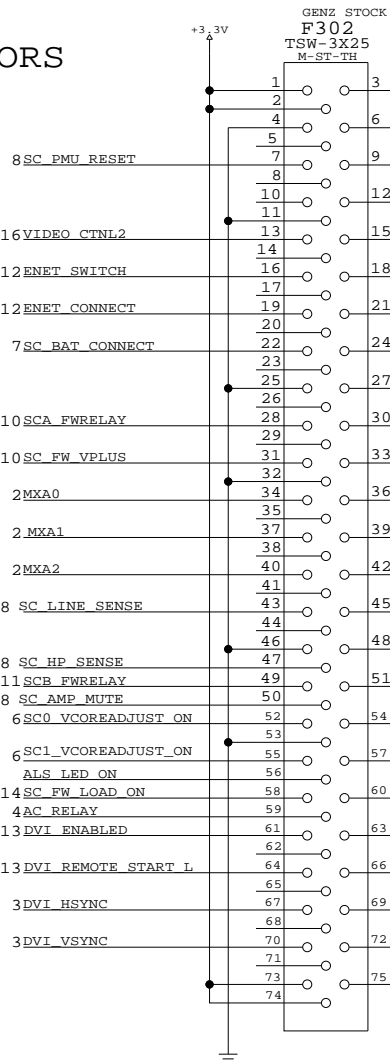
FIXTURE DOWN SENSE



SPREAD OUT ACROSS PCB



SCAN CARD CONNECTORS



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SIZE D DRAWING NUMBER 951-0246 REV. 2

SCALE NONE SHT 4 OF 20

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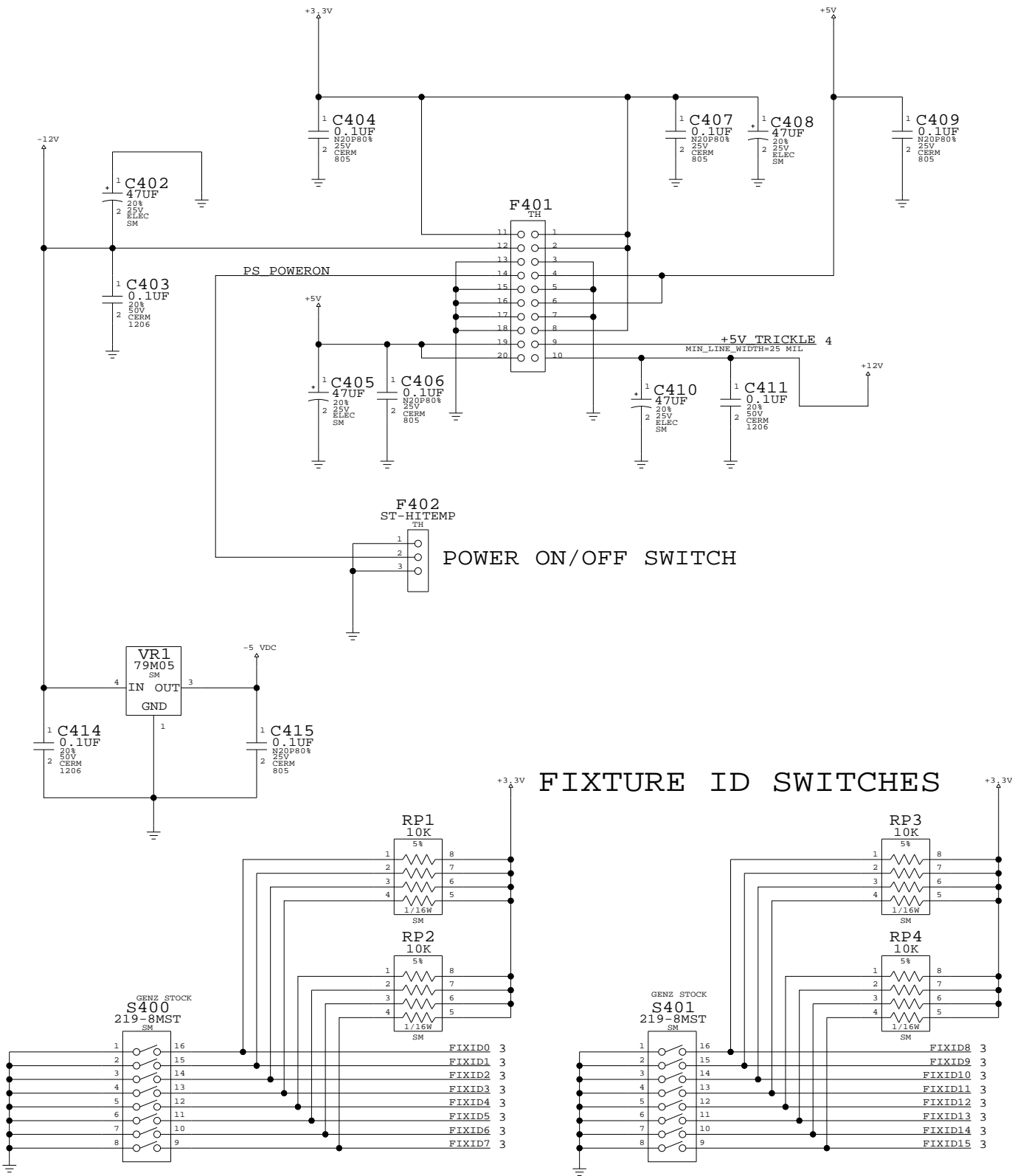
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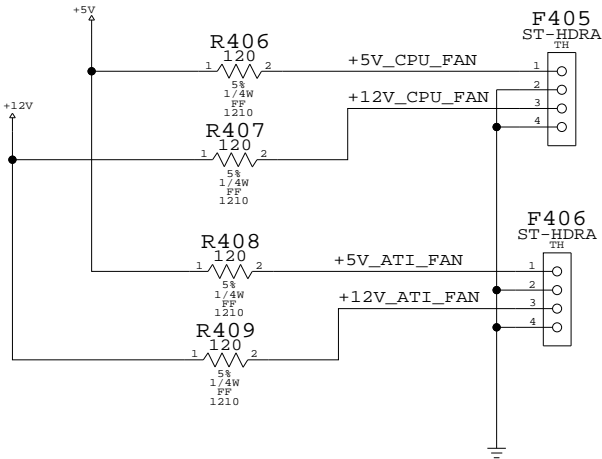
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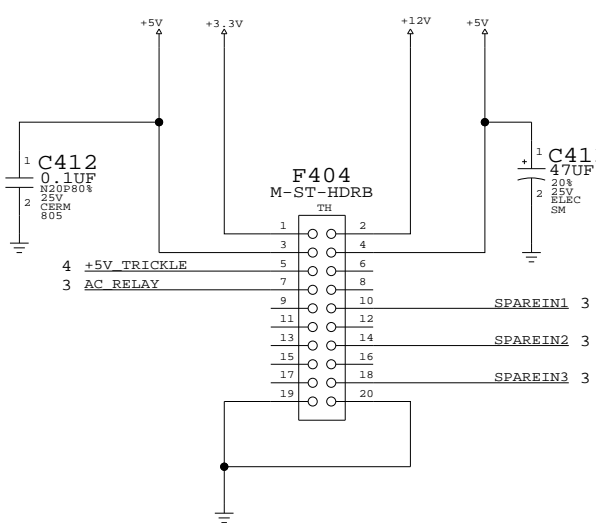
INTERFACE BOARD POWER CONNECTOR



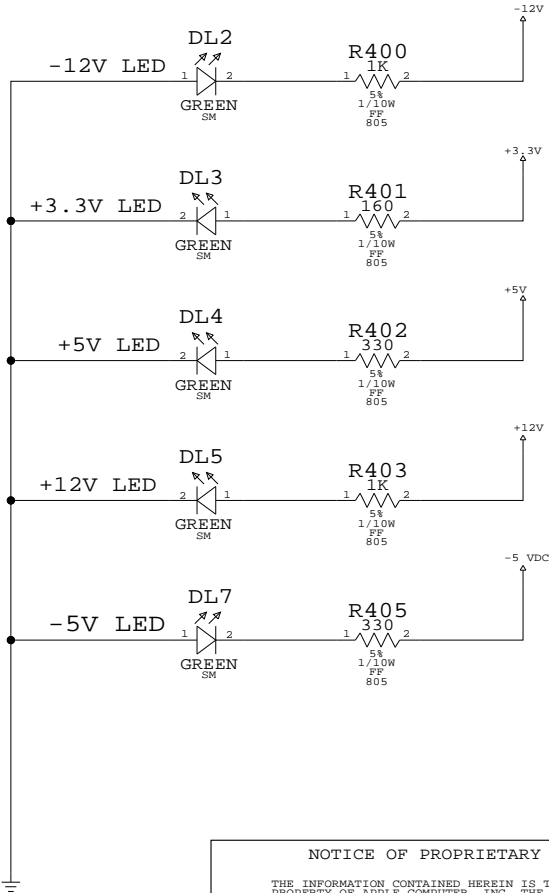
GENZ FAN CONNECTORS



FIXTURE CONTROL PORT



FIXTURE POWER ON LEDS



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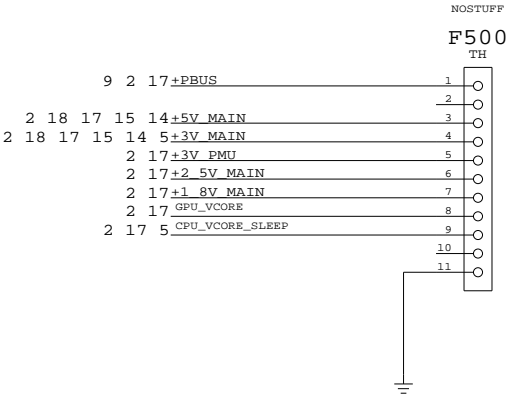
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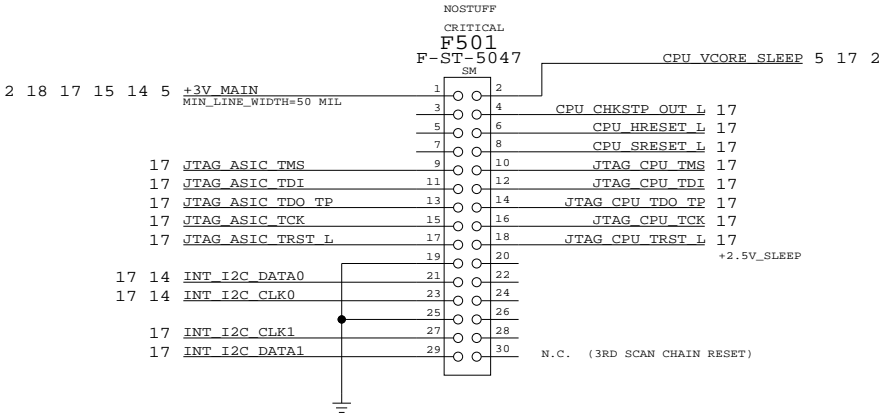
B

A

POWER SUPPLY TEST PINS



JTAG AND I2C TEST CONNECTOR



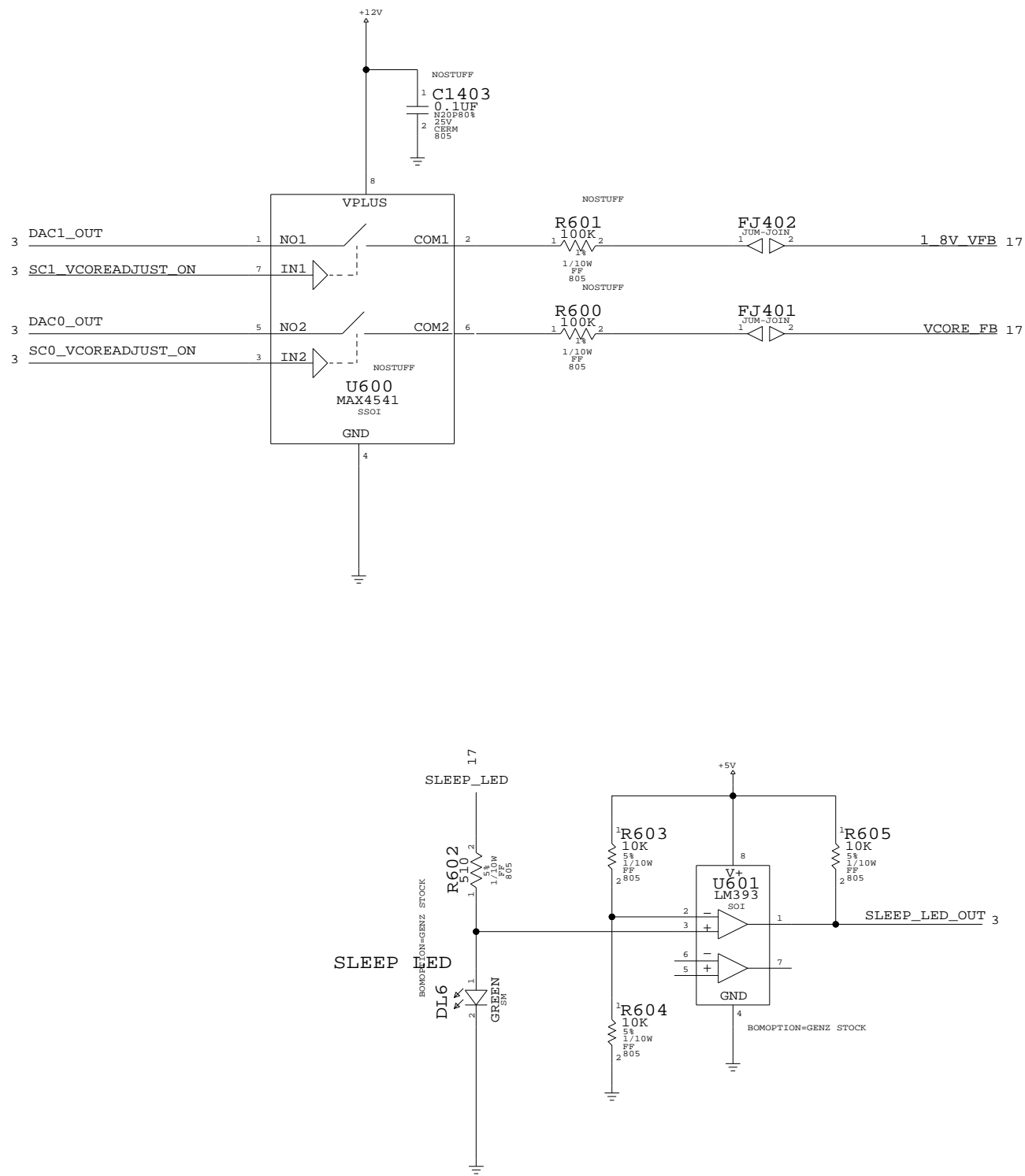
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SCALE	SHT	OF
NONE	6	20

VOLTAGE MARGIN CIRCUIT

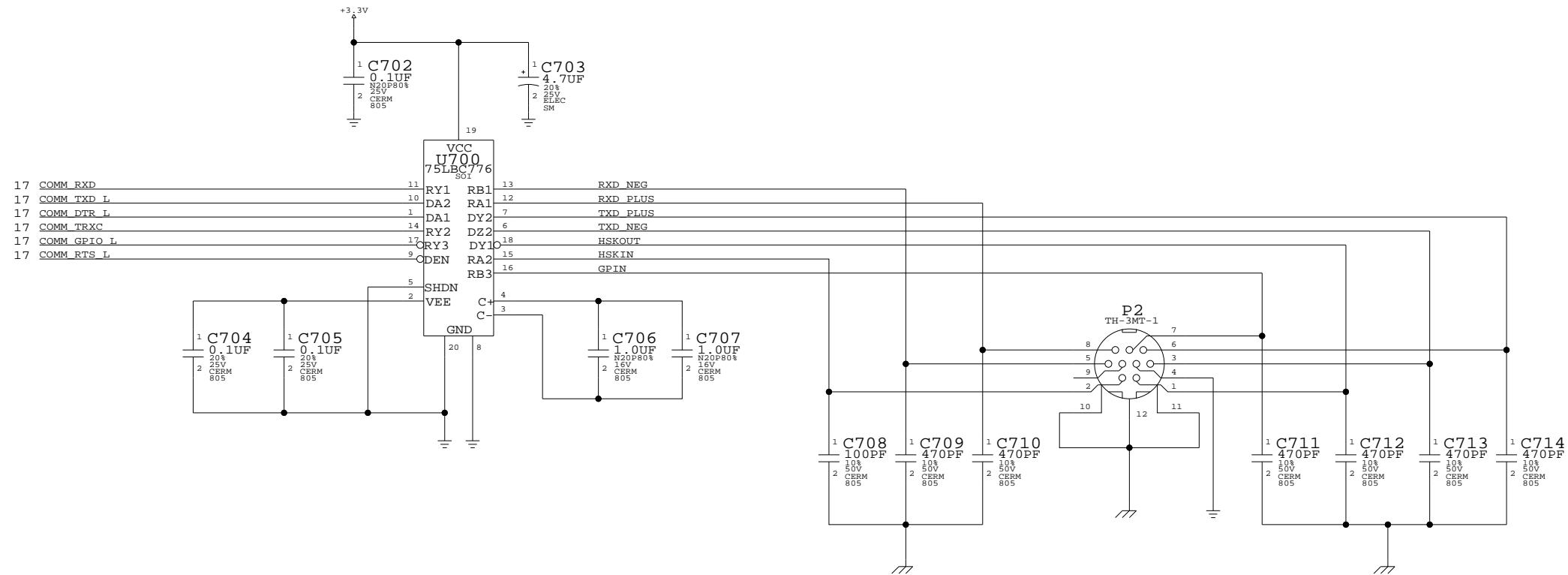


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SCALE	SHT	OF
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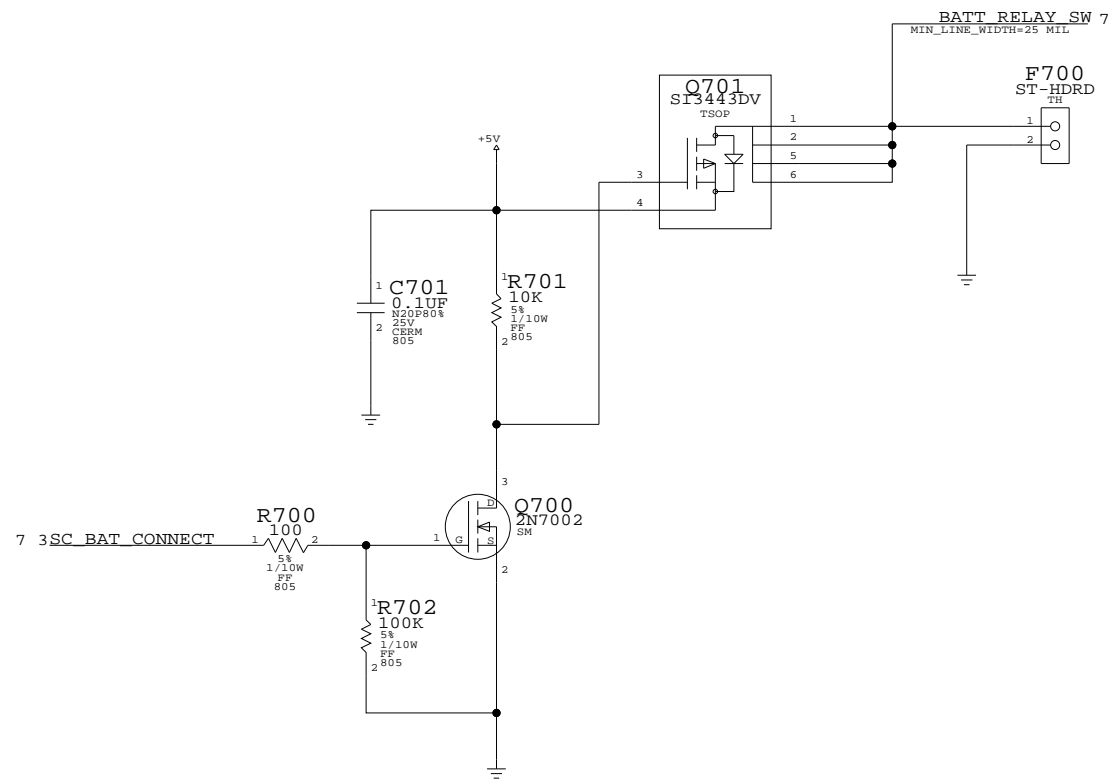


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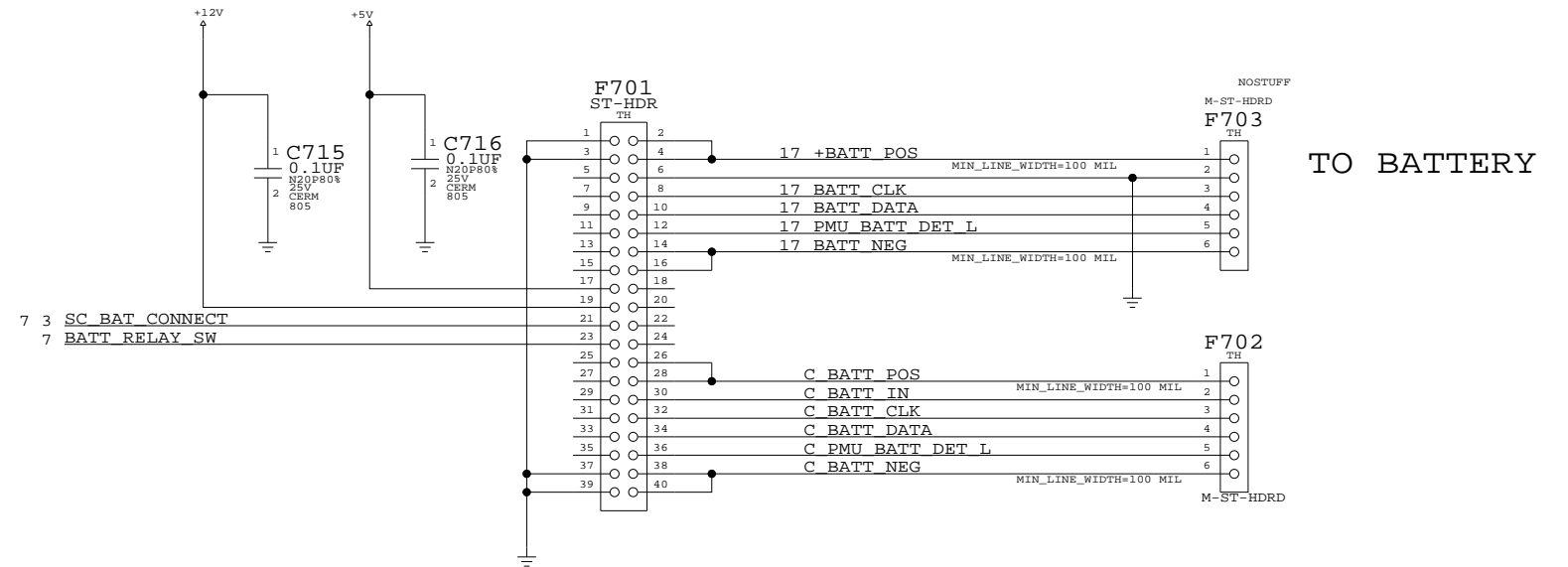
## SERIAL PORT INTERFACE



## BATTERY CONNECT/DISCONNECT



## NEW BATTERY RELAY BOARD CONNECTORS



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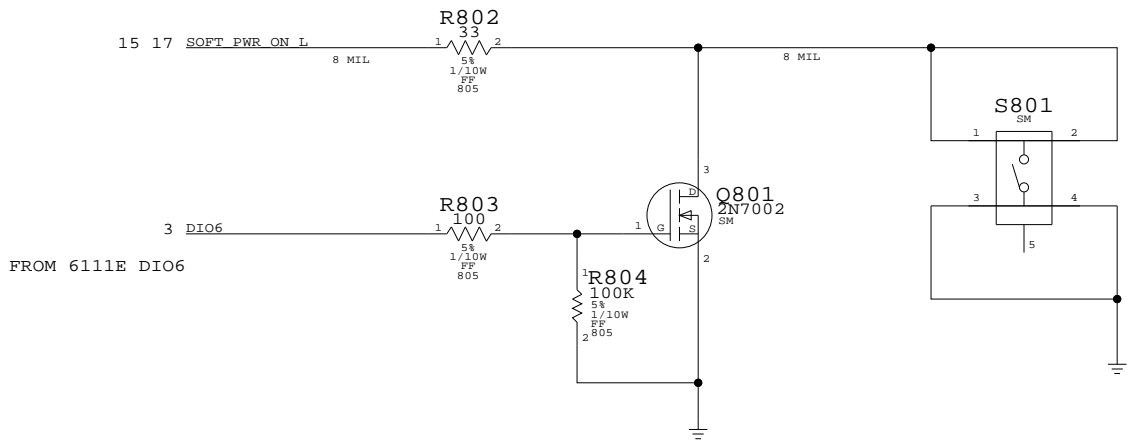
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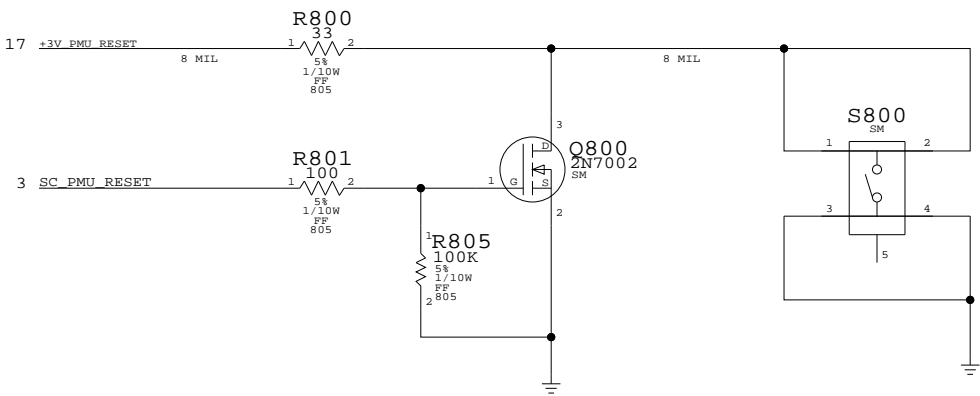
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SIZE D	DRAWING NUMBER 951-0246	REV. 2
SCALE NONE	SHT 8	OF 20

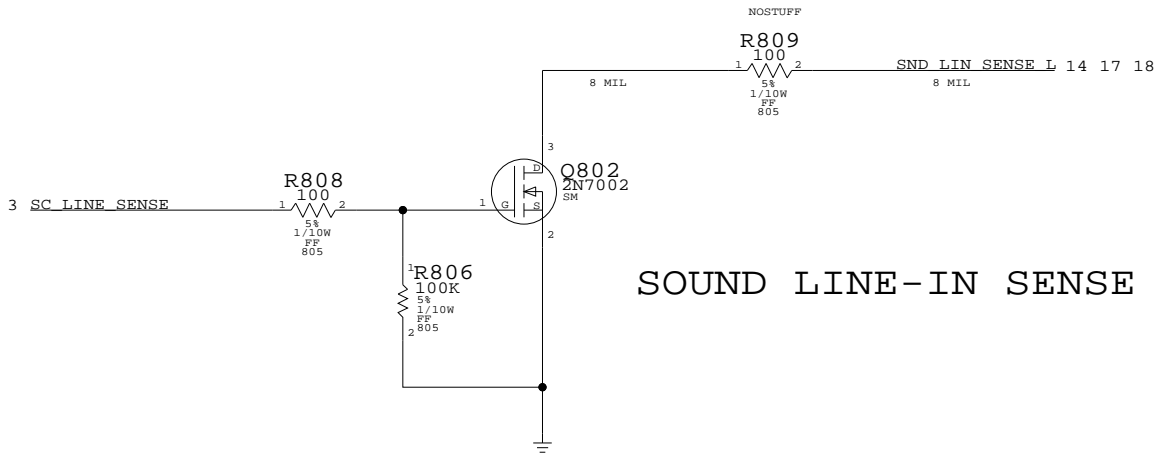
UUT POR



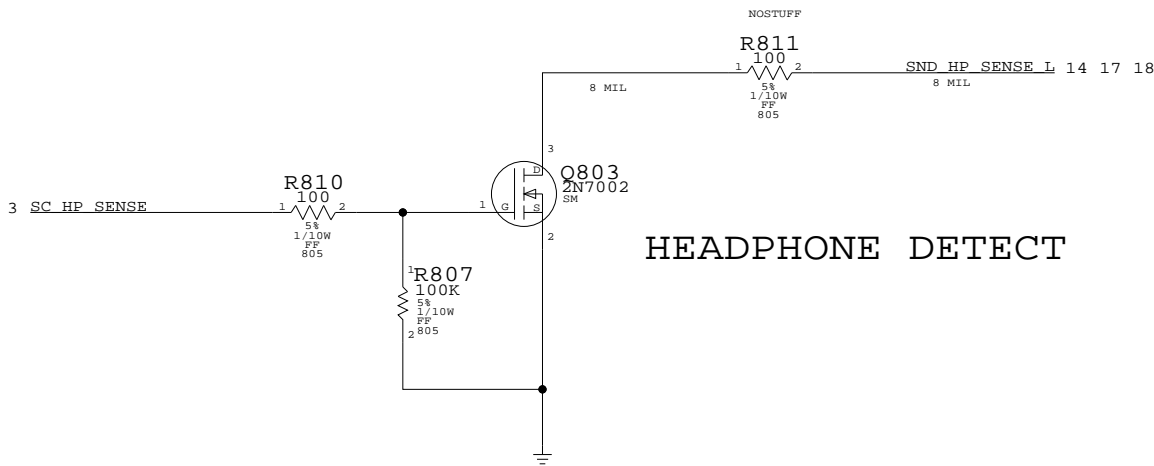
UUT PMU RESET



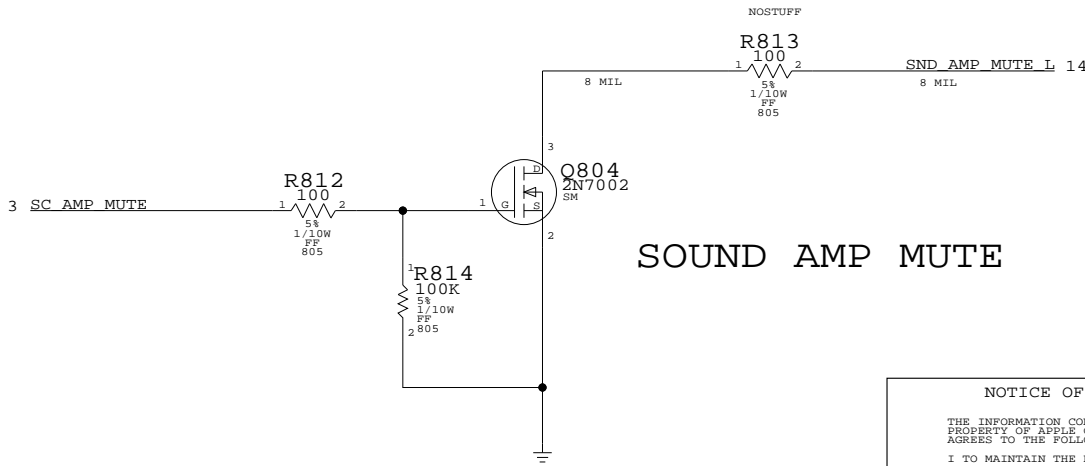
SOUND LINE-IN SENSE



HEADPHONE DETECT



SOUND AMP MUTE



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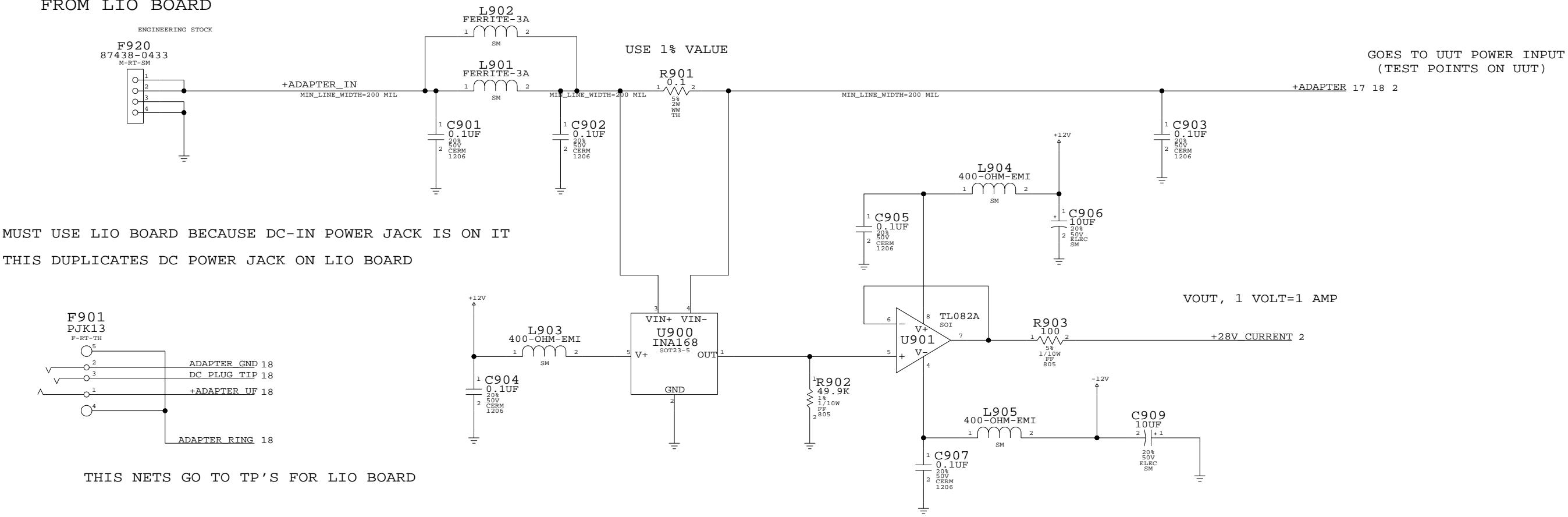
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D	951-0246	2
SCALE	SHT	OF
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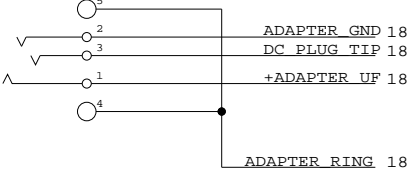
POWER-IN CURRENT SENSE CIRCUIT

DC POWER INPUT  
FROM LIO BOARD



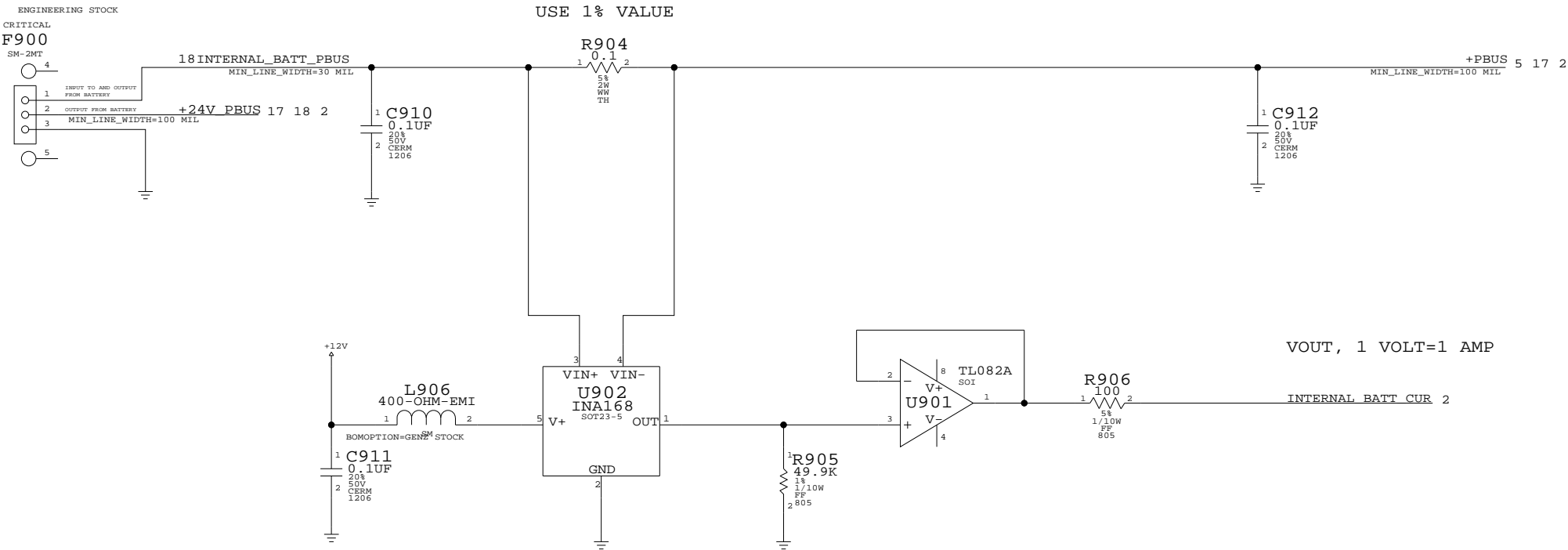
MUST USE LIO BOARD BECAUSE DC-IN POWER JACK IS ON IT  
THIS DUPLICATES DC POWER JACK ON LIO BOARD

F901  
PJK13  
F-RT-TH



THIS NETS GO TO TP'S FOR LIO BOARD

BACKUP  
BATTERY

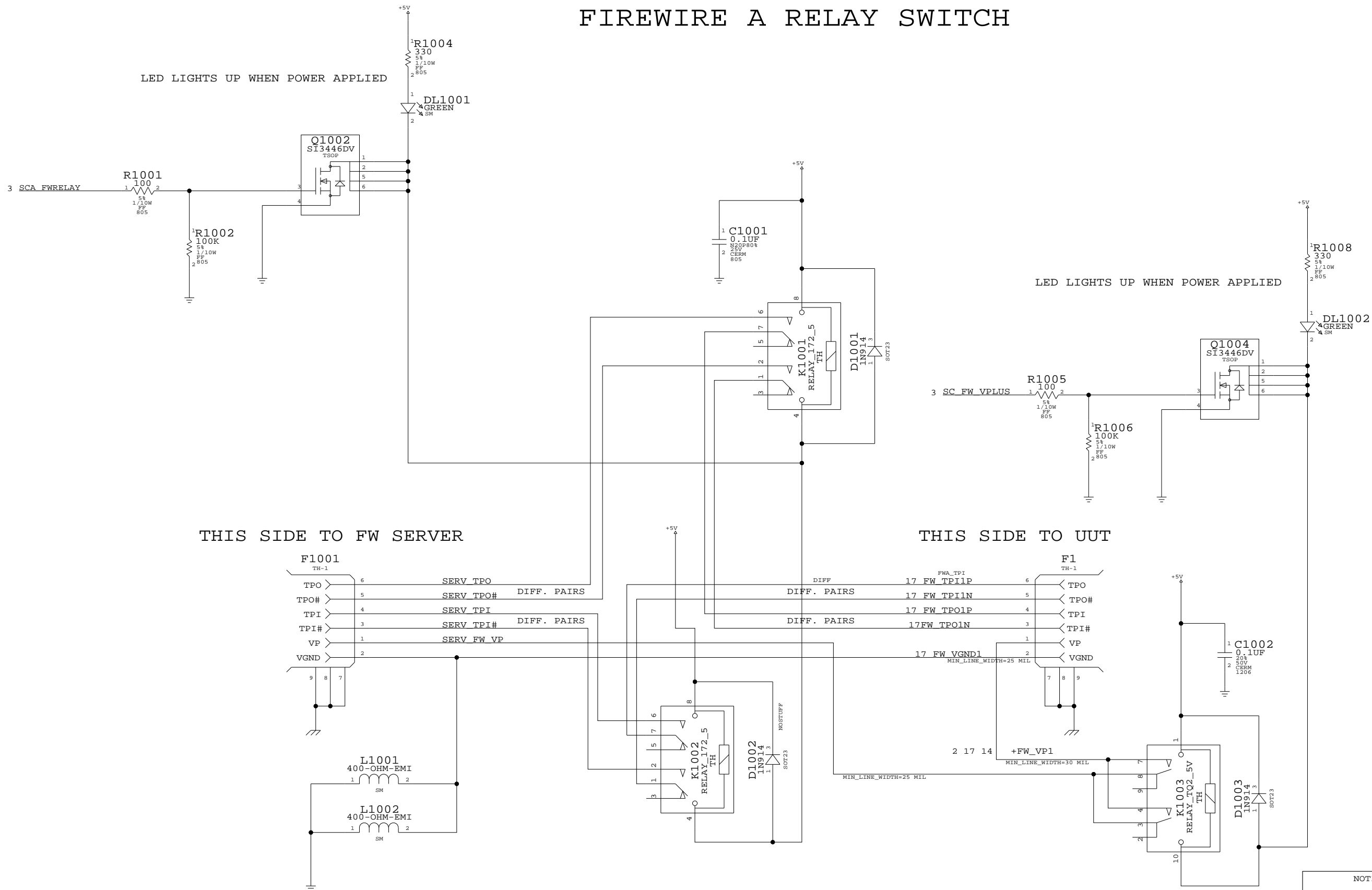


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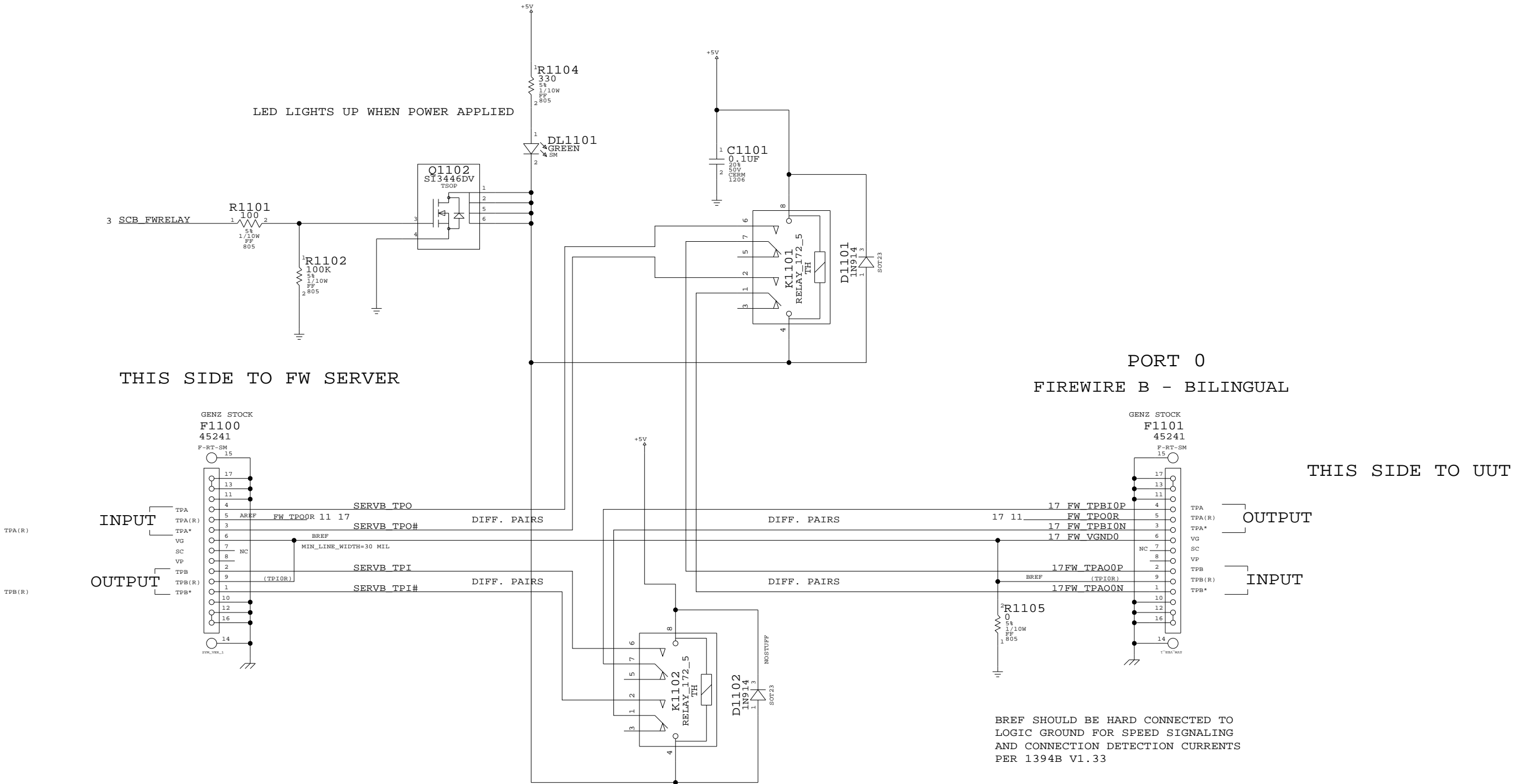
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FIREWIRE B RELAY SWITCH



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SCALE	SHT	OF	
NONE	12	20	



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ETHERNET SWITCHING

SERVER ETHERNET

ETHERNET TO UUT

CONTROLLER ETHERNET

REFER TO PAGE 15 FOR DIFF. PAIR SIGNAL LAYOUT

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SIZE	DRAWING NUMBER	REV.
D	951-0246	2
SCALE	SHT	OF
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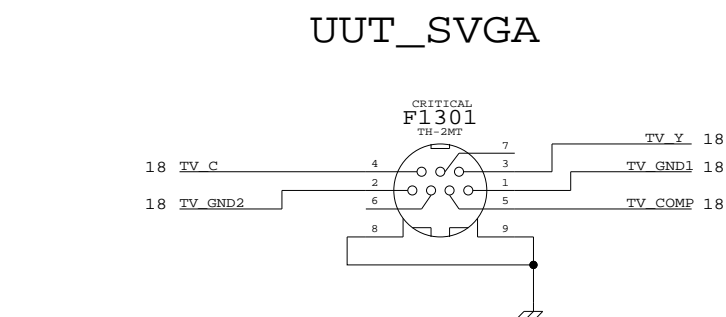
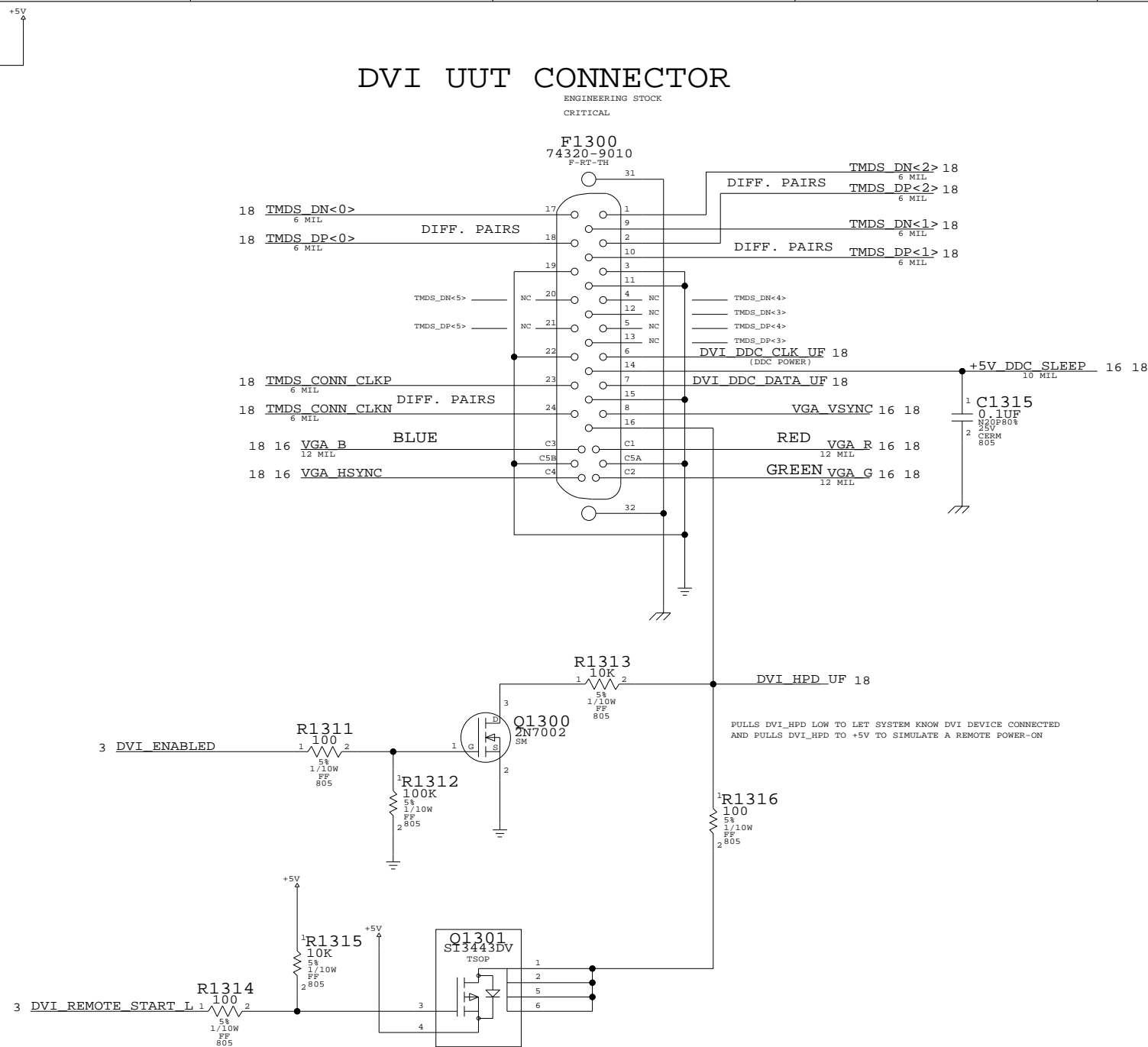
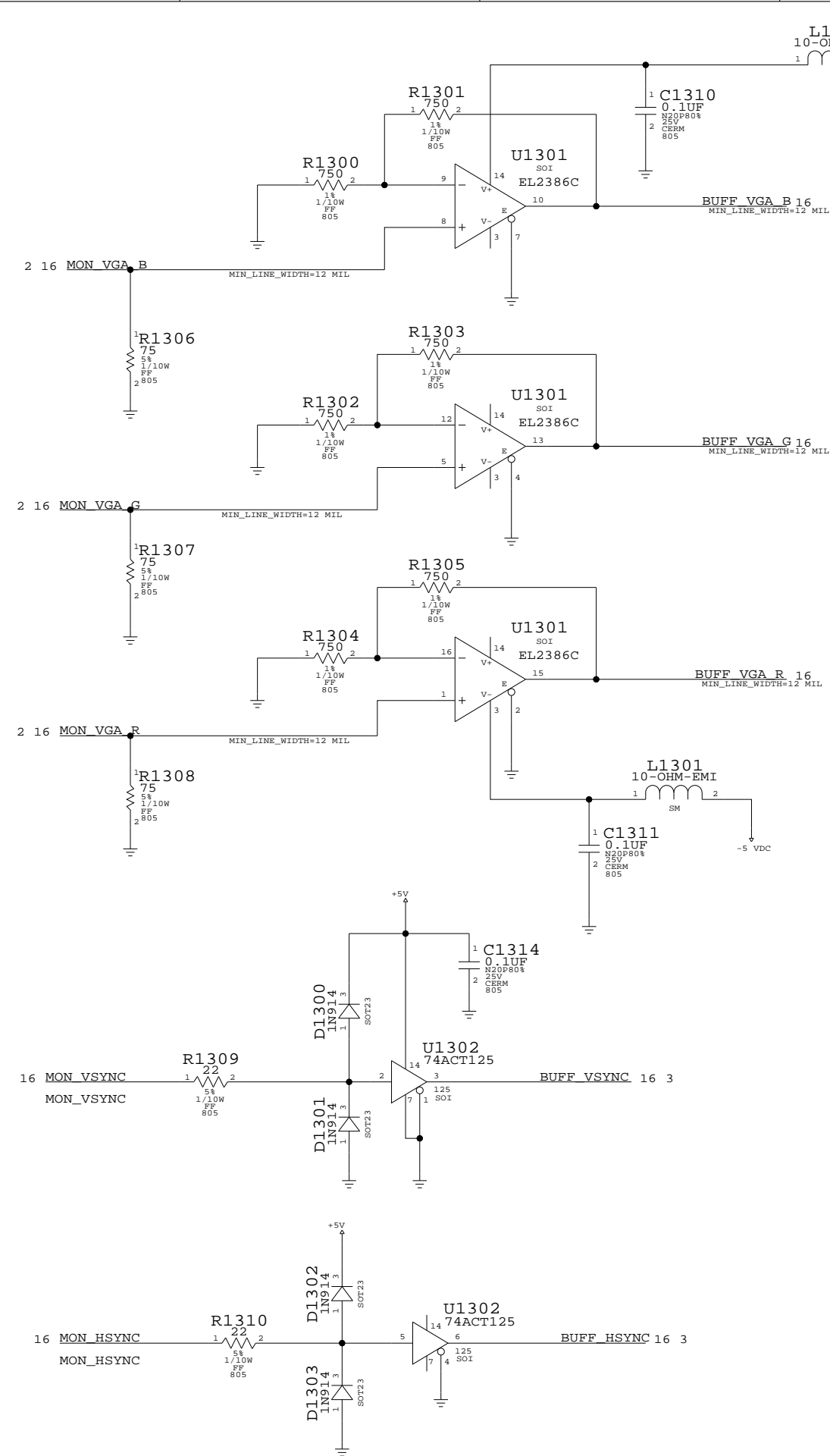
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	SCALE NONE	SHT 14 OF 20	

FIREWIRE LOAD CIRCUIT

AUDIO/LEFT I/O BOARD (LIO)

RIGHT USB BOARD

LMU/RIGHT SENSOR CONNECTOR

LEFT LIGHT SENSOR CONNECTOR

LIO USB PORT

EXTERNAL BLUETOOTH USB PORT

BLUETOOTH MODUAL CONNECTOR

FAN 1 CONNECTOR CPU

FAN 2 CONNECTOR GPU

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D

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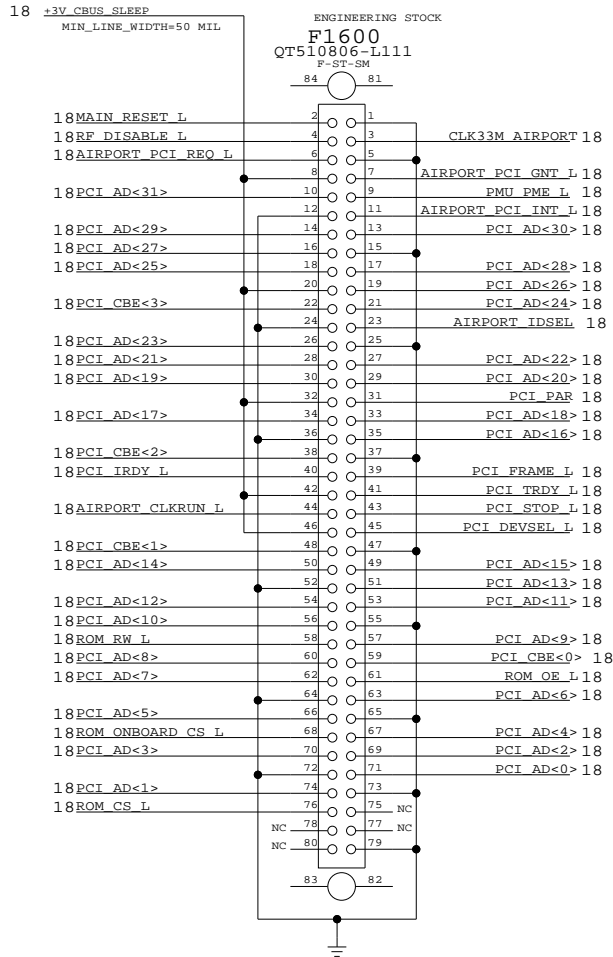
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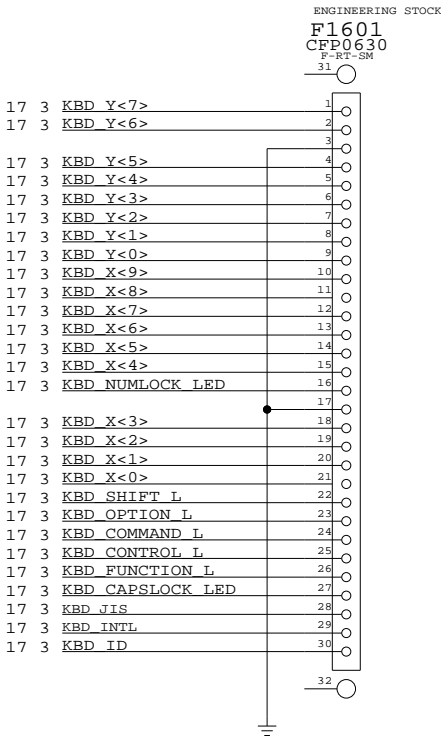
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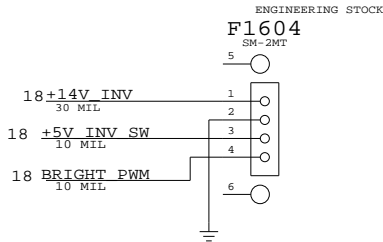
WIRELESS INTERFACE



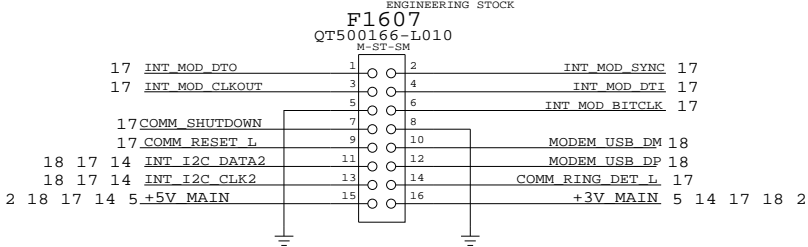
KEYBOARD INTERFACE



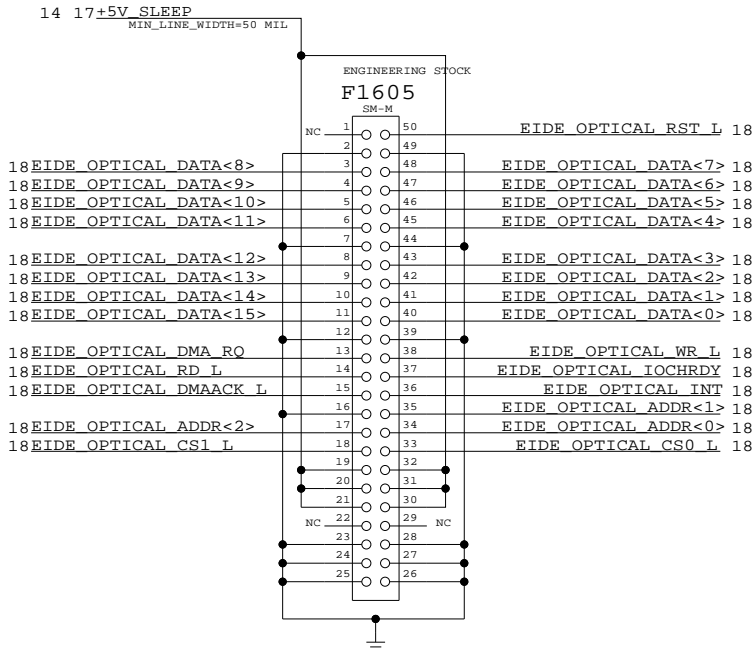
INVERTER INTERFACE



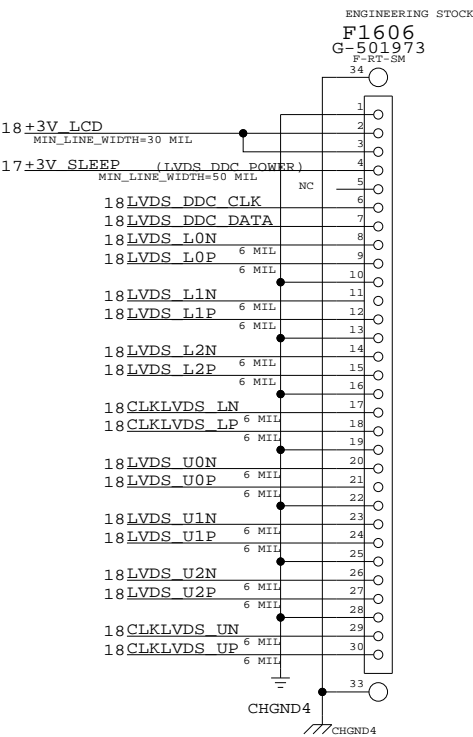
MODEM BOARD INTERFACE



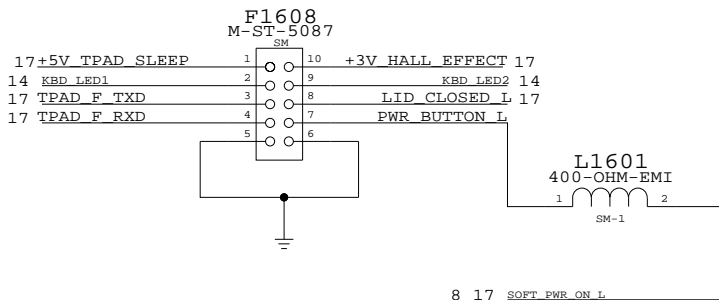
OPTICAL DRIVE INTERFACE (EIDE)



LVDS INTERFACE



TRACKPAD/PWR BTN CONN



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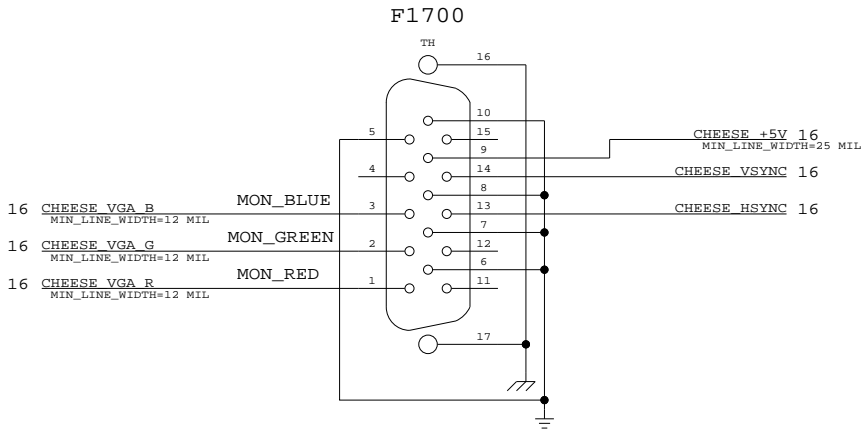
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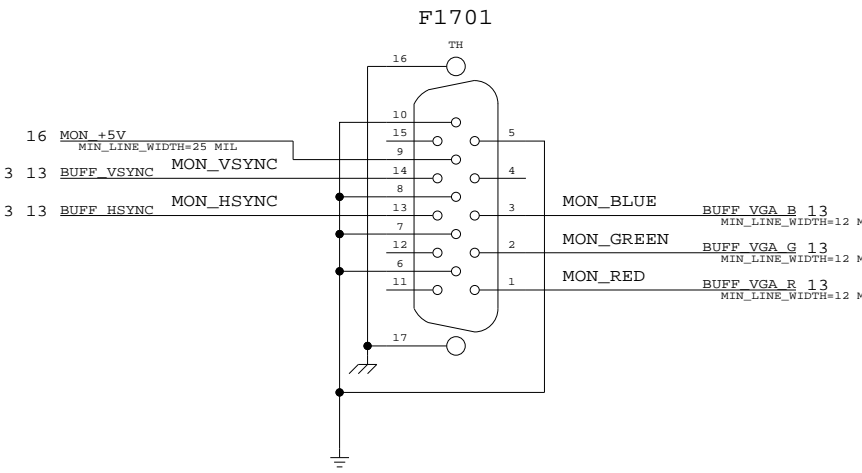


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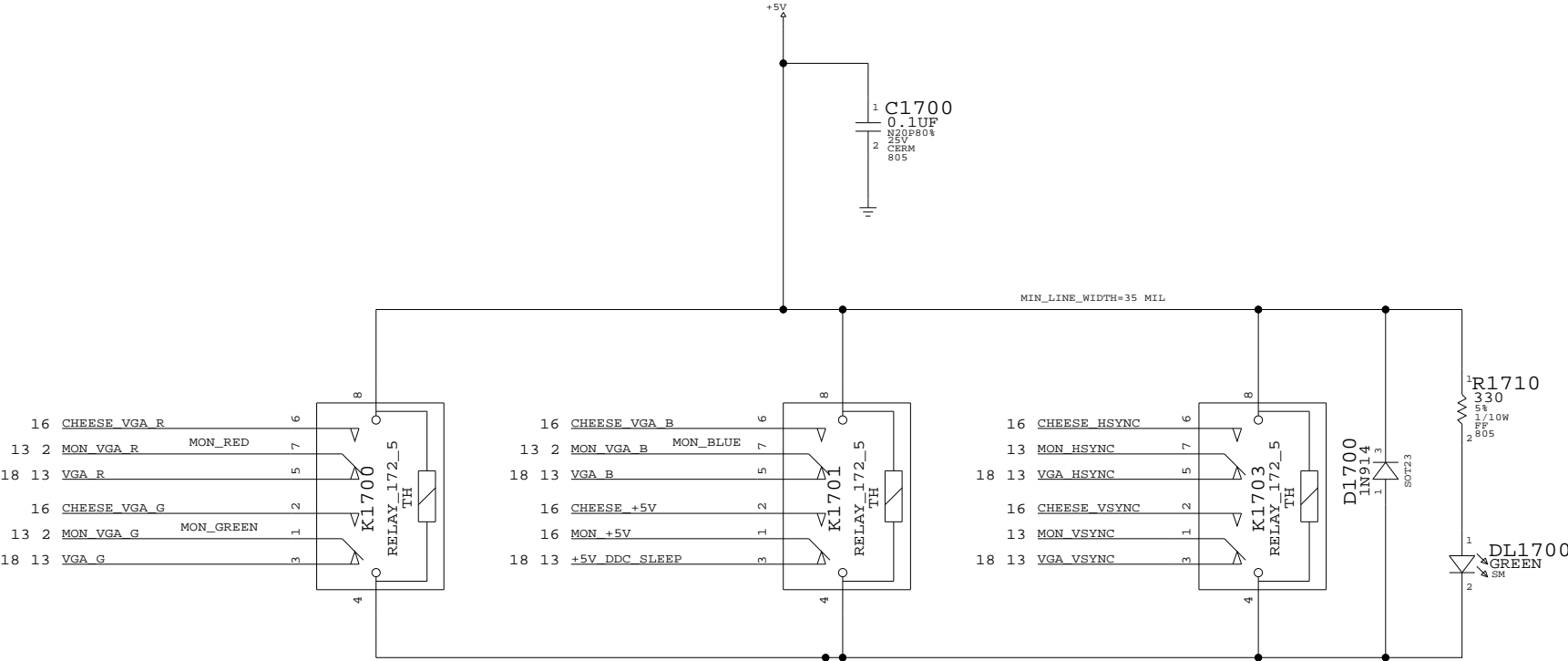
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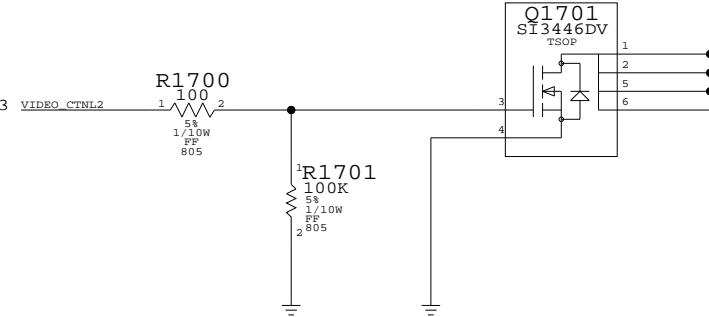
CHEESE\_BOX



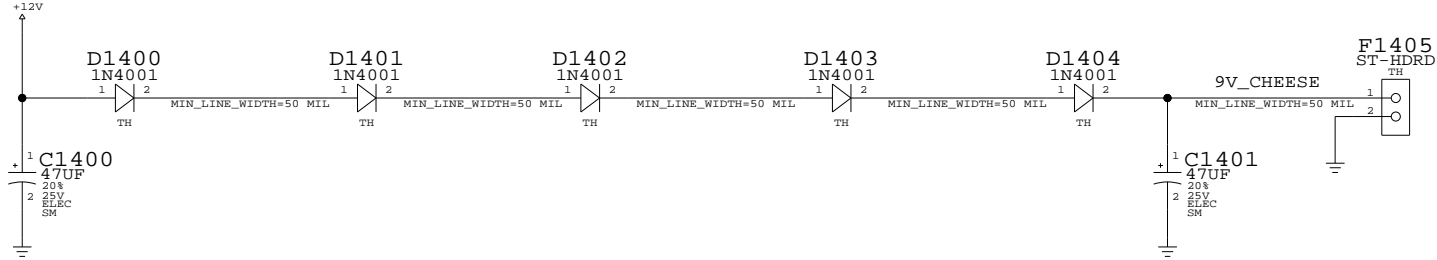
CONTROLLER MONITOR



SVIDEO/VGA SELECT



CHEESE BOX VOLTAGE SOURCE

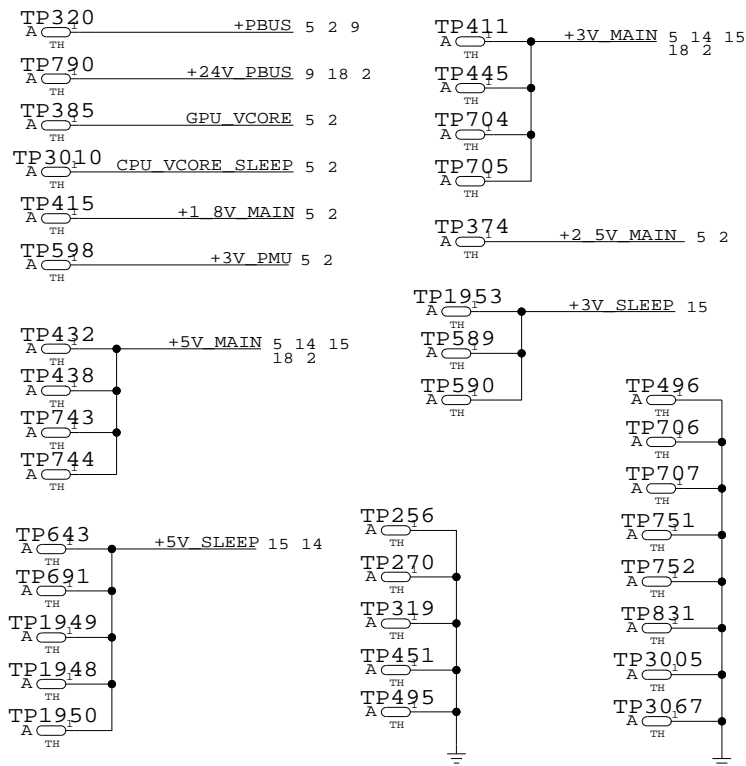


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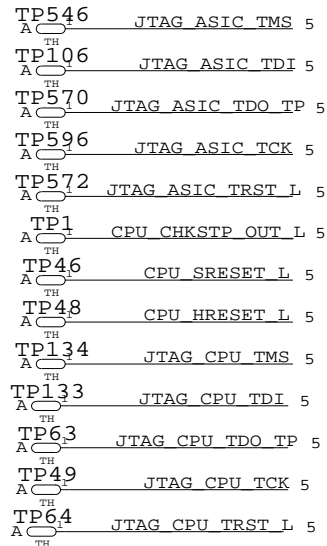


## POWER &amp; GND

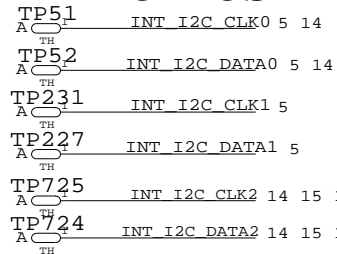


## TEST SIGNALS

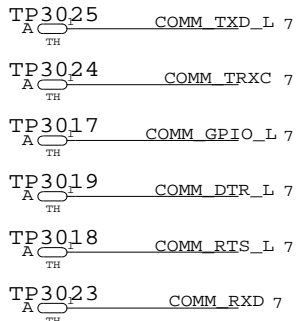
## SCAN ( JTAG )



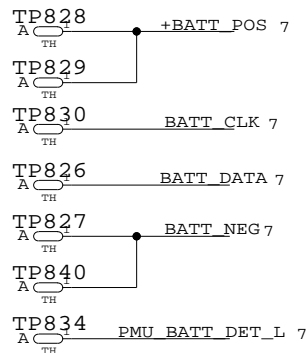
## I2C BUS



## SERIAL PORT-UUT COMM

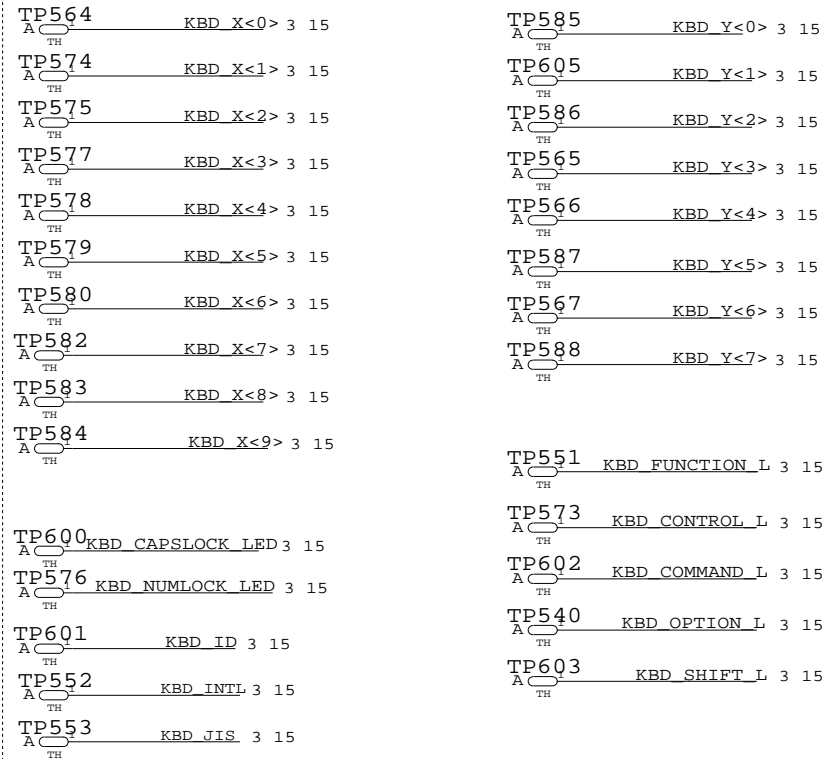


## BATTERY CONNECTIONS

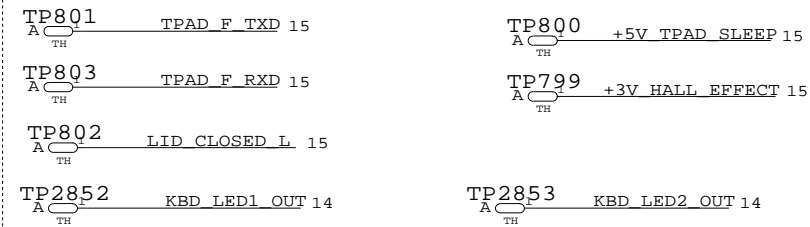


KEYBOARD CONNECTOR

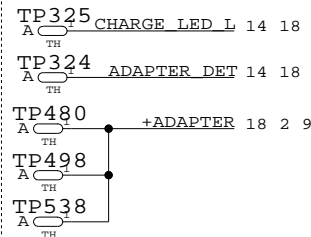
## KEYBOARD SIGNALS



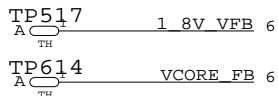
## TRACKPAD SIGNALS



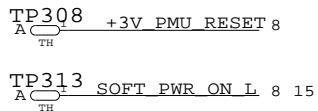
## POWER INPUT SIGNALS



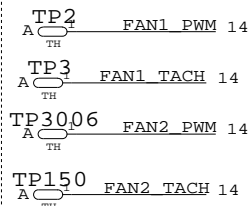
## VOLTAGE MARGINING



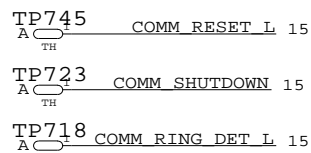
## POWER-UP CONTROL SIGNALS



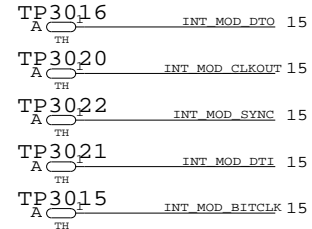
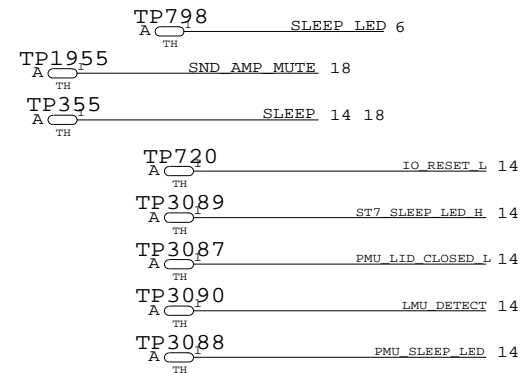
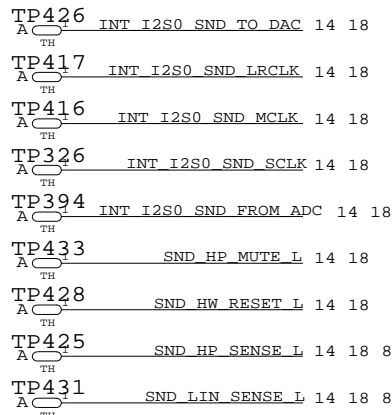
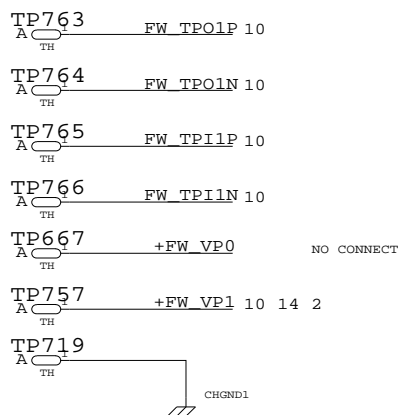
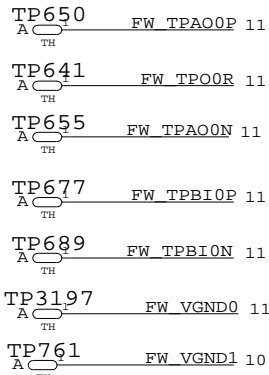
## FAN TP'S



MODEM



# FIREWIRE TP'S



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