

XTREMREX TEAM SERVICE

CBBA-BO



MODELO : 32LG60UR

Contenido

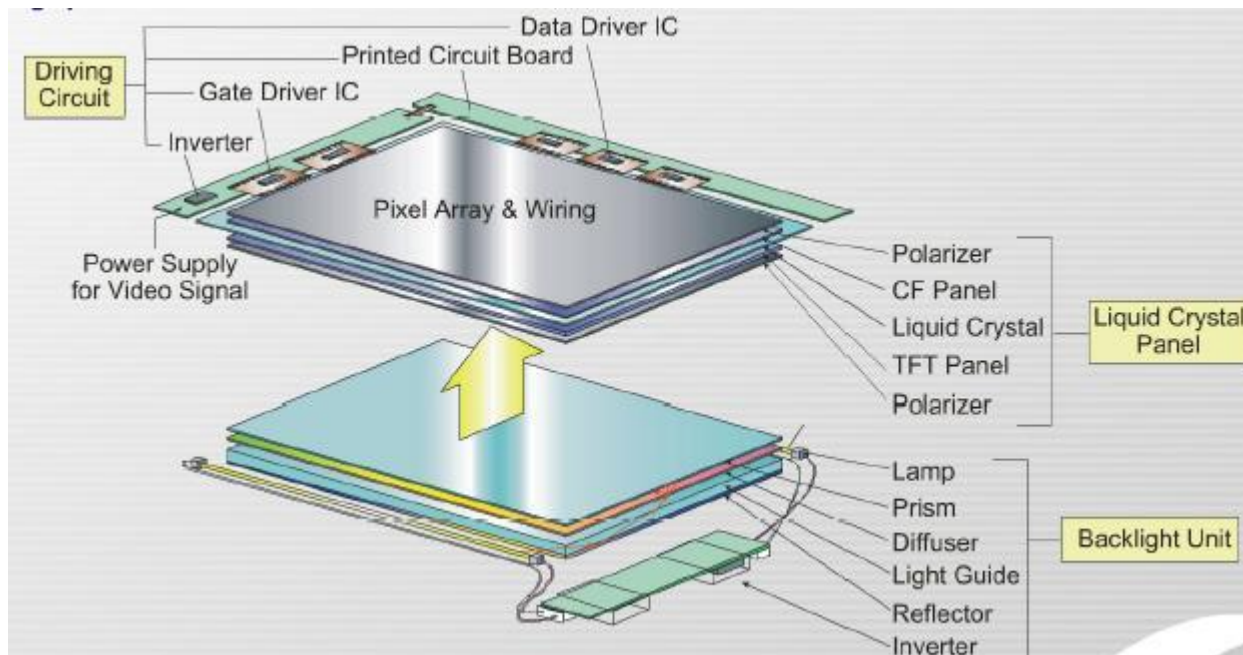


XTREMREX TEAM SERVICE

Funcionamiento Básico

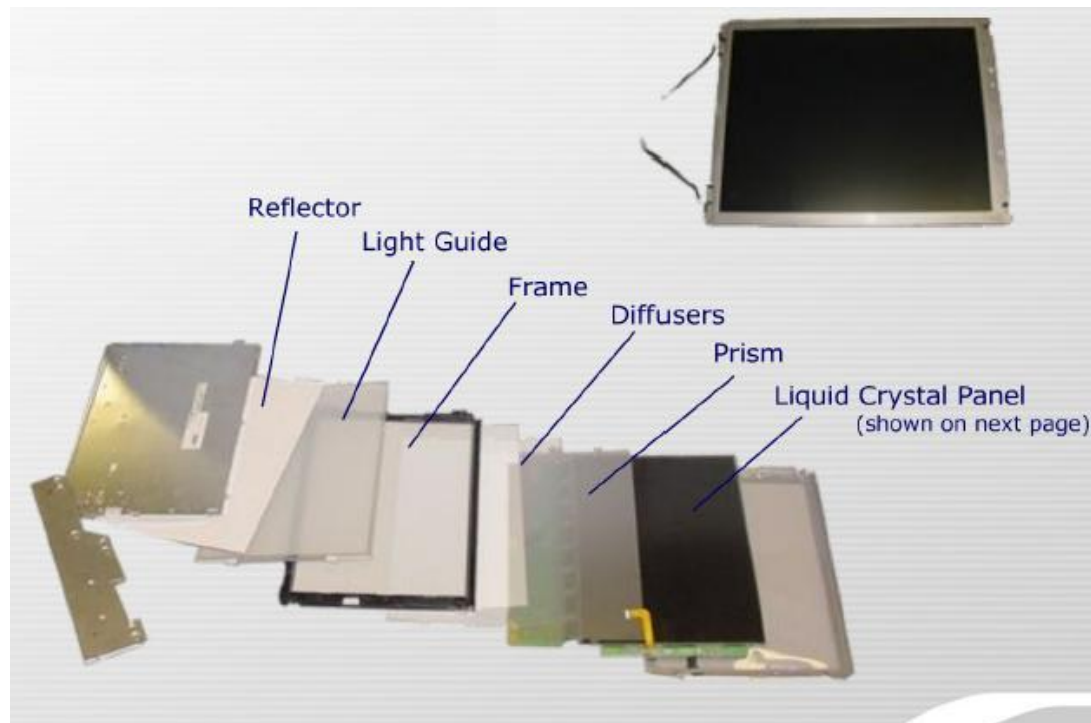
- LCD Display

Un display de cristal liquido (LCD) esta compuesto por una etapa de iluminación (backlight), un panel de cristal liquido y una etapa electrónica de control.



Funcionamiento Básico

Las lámparas iluminan desde la parte trasera del panel, esta luz pasa a través de filtros que ayudan a crear un nivel de luz uniforme. Cuando la luz pasa a través del panel de cristal liquido el cual esta compuesto por millones de pixeles, estos controlan el flujo de luz en el panel para así formar las imágenes.



Estructura del número de modelo

4 2 L G 6 0 - U A — Chassis Version

Screen Size

Display Type

P = Plasma

L = LCD

D = DLP RPTV

J = Projector

Year

G = 2008

Series/Feature Level

30/31 = HDTV

40 = DVD Player

50 = Full HD

60 = Scarlet - Full HD & 120Hz

70 = Full HD & 120Hz

90 = LED Backlight

X = Super Thin

Region

U = North America

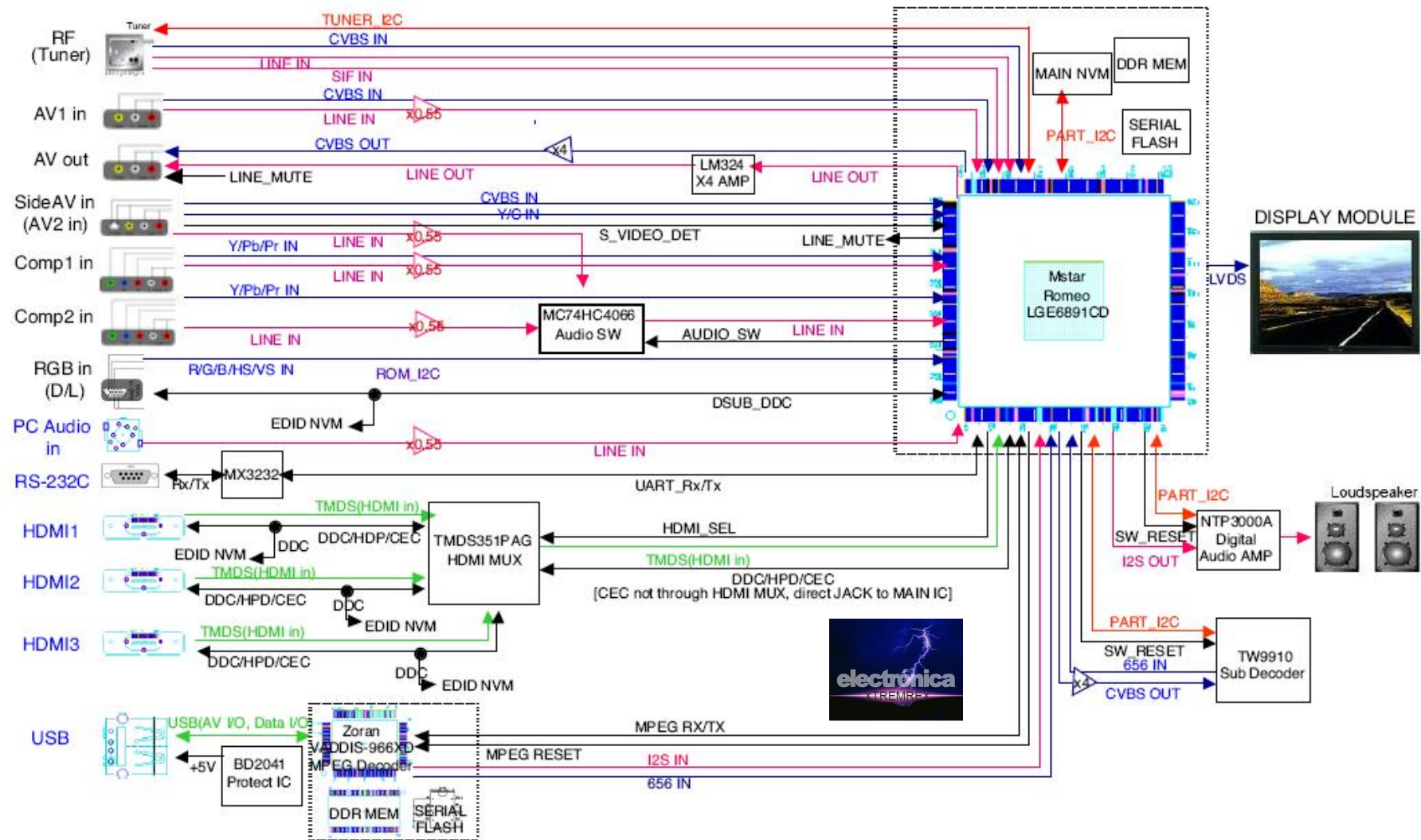
B = Europe & NA



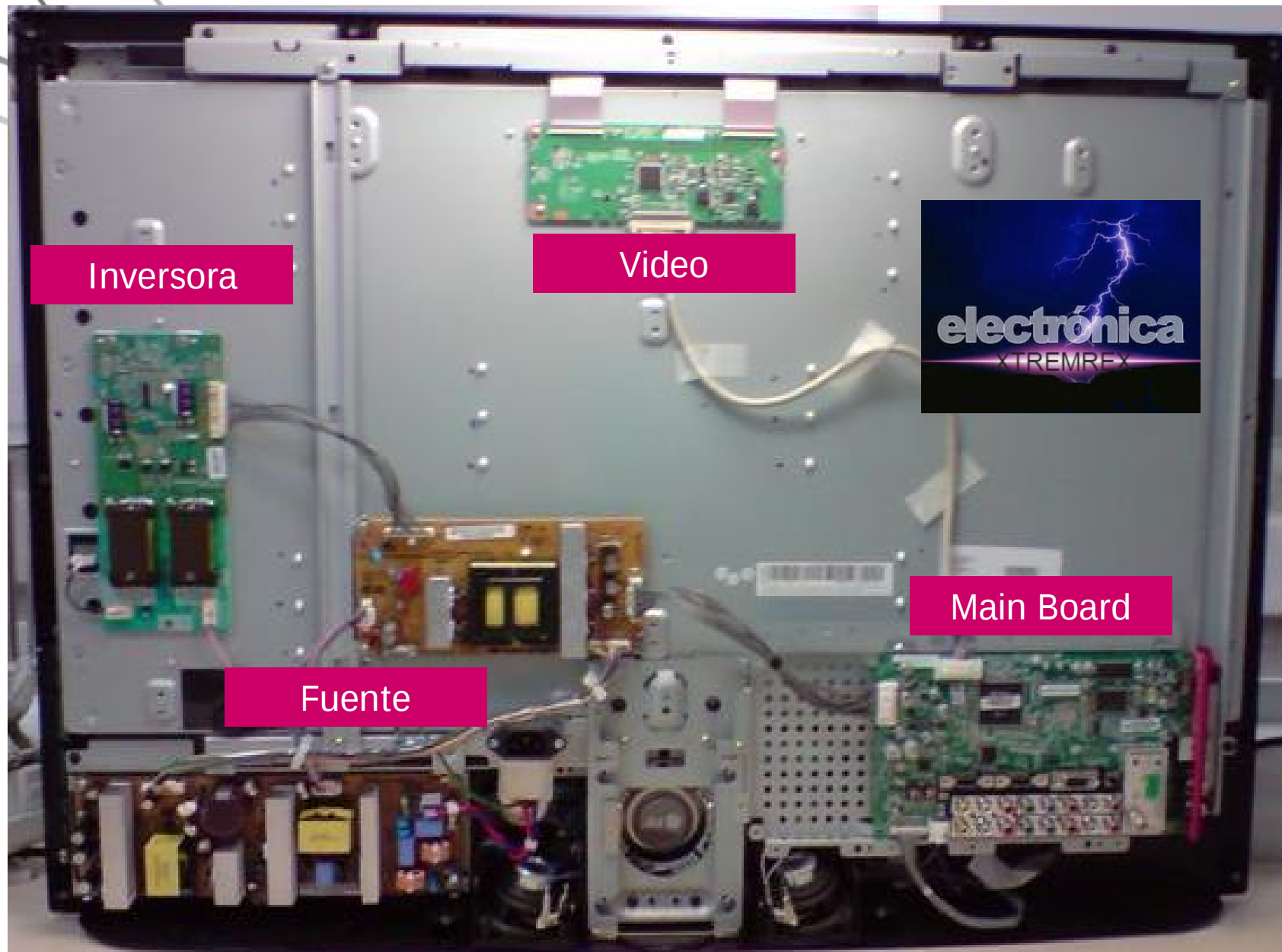
CARACTERÍSTICAS

Características

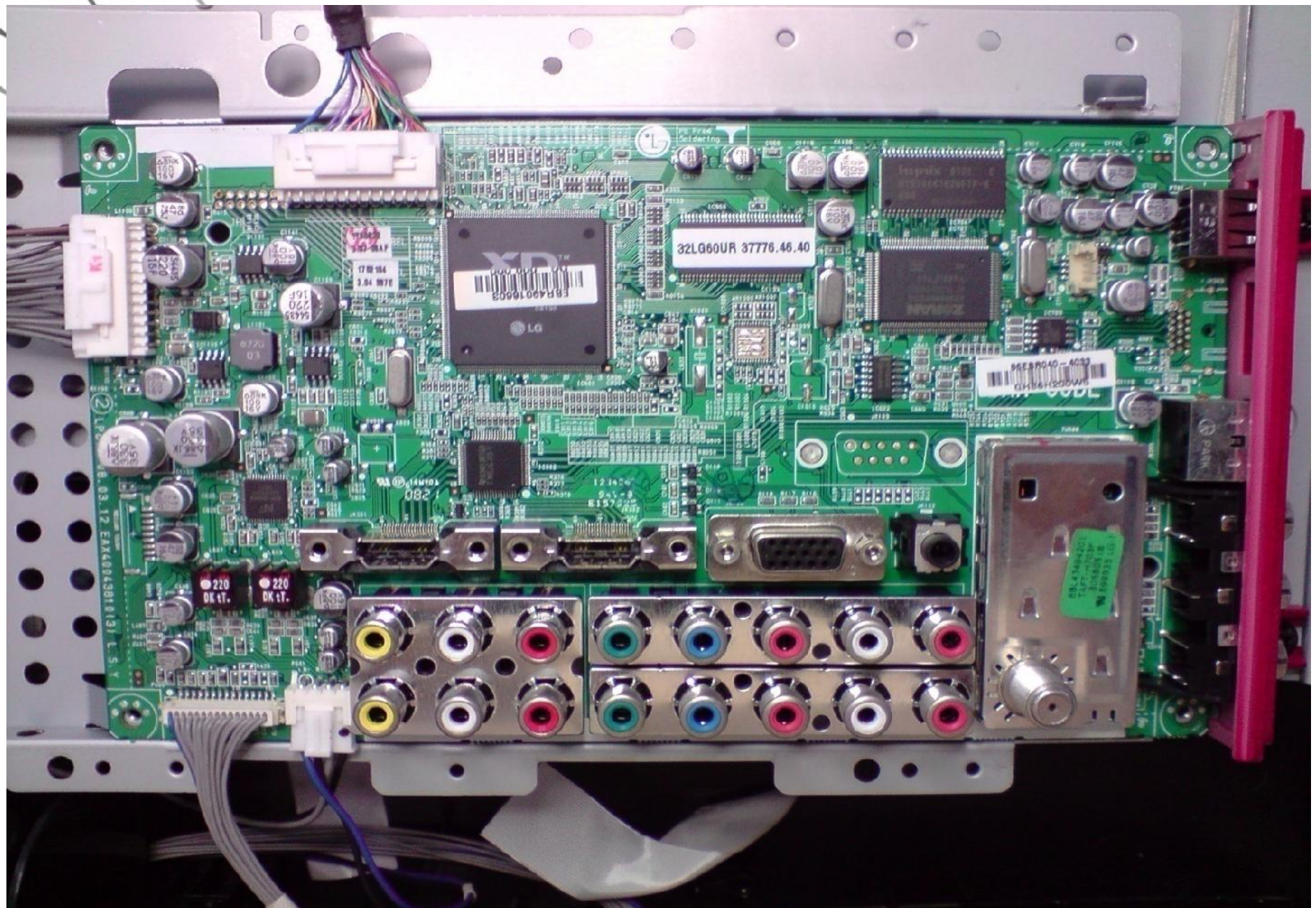
Item		Specification	Remark
Market		Central and South America	
Broadcasting system		PAL SECAM B/G/D/K, PAL I/II, NTSC-M	
Available Channel	BAND	NTSC	
	VHF	2~13	
	UHF	14~69	
	CATV	1~125	
Receiving system		Upper Heterodyne	
Video Input (2EA)		NTSC, PAL-M/N	Rear 1EA, Side 1EA
AV Output (1EA)		NTSC, PAL-M/N	Rear
S-Video Input (1EA)		NTSC, PAL-M/N	Side (S-Video Priority)
Component Input (2EA)		Y/Cb/Cr, Y/ Pb/Pr	Rear
RGB Input (1EA)		RGB-PC, S/W Upgrade	Rear
HDMI Input	2EA	HDMI-DTV, Only PCM MODE	LG30 Tool, 32LG60
	3EA		LG50, LG70 Tool
Audio Input (5EA)		PC Audio, Component (2EA), AV (2EA)	L/R Input
RS-232C		Remote control, Commercial	Side(1EA)-LG30 Tool only (LG50, LG60, LG70 not Support)
USB Input		Divx, MP3, JPEG	Side(1EA) - LG60, LG70 Tool Only (LG30, LG50 Not Support)



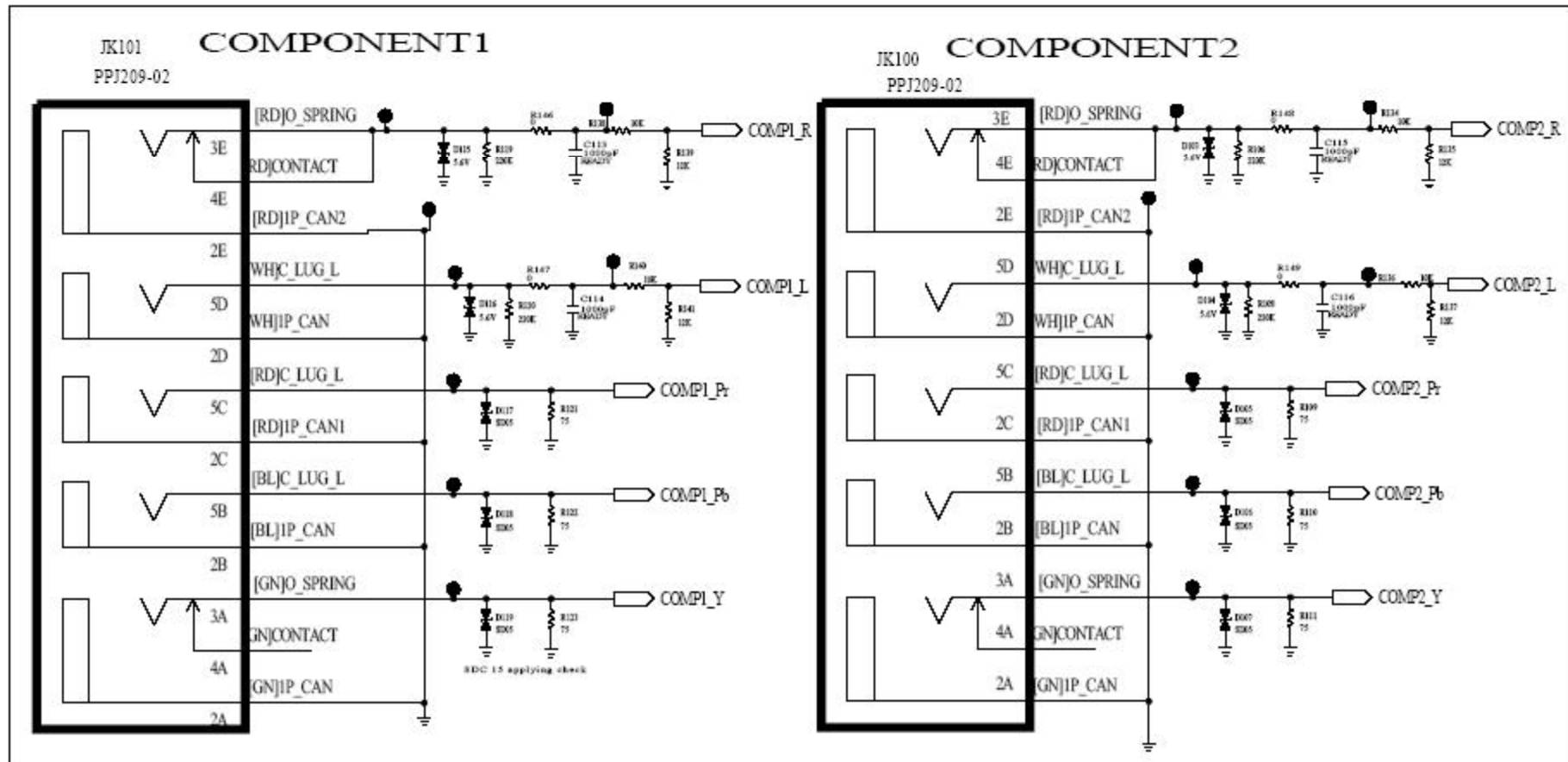
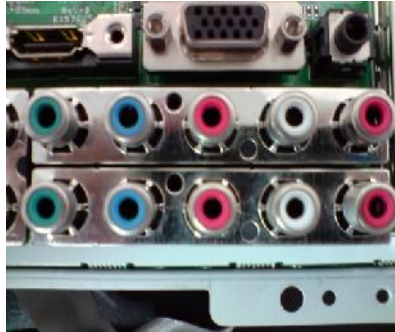
Descripción de Partes



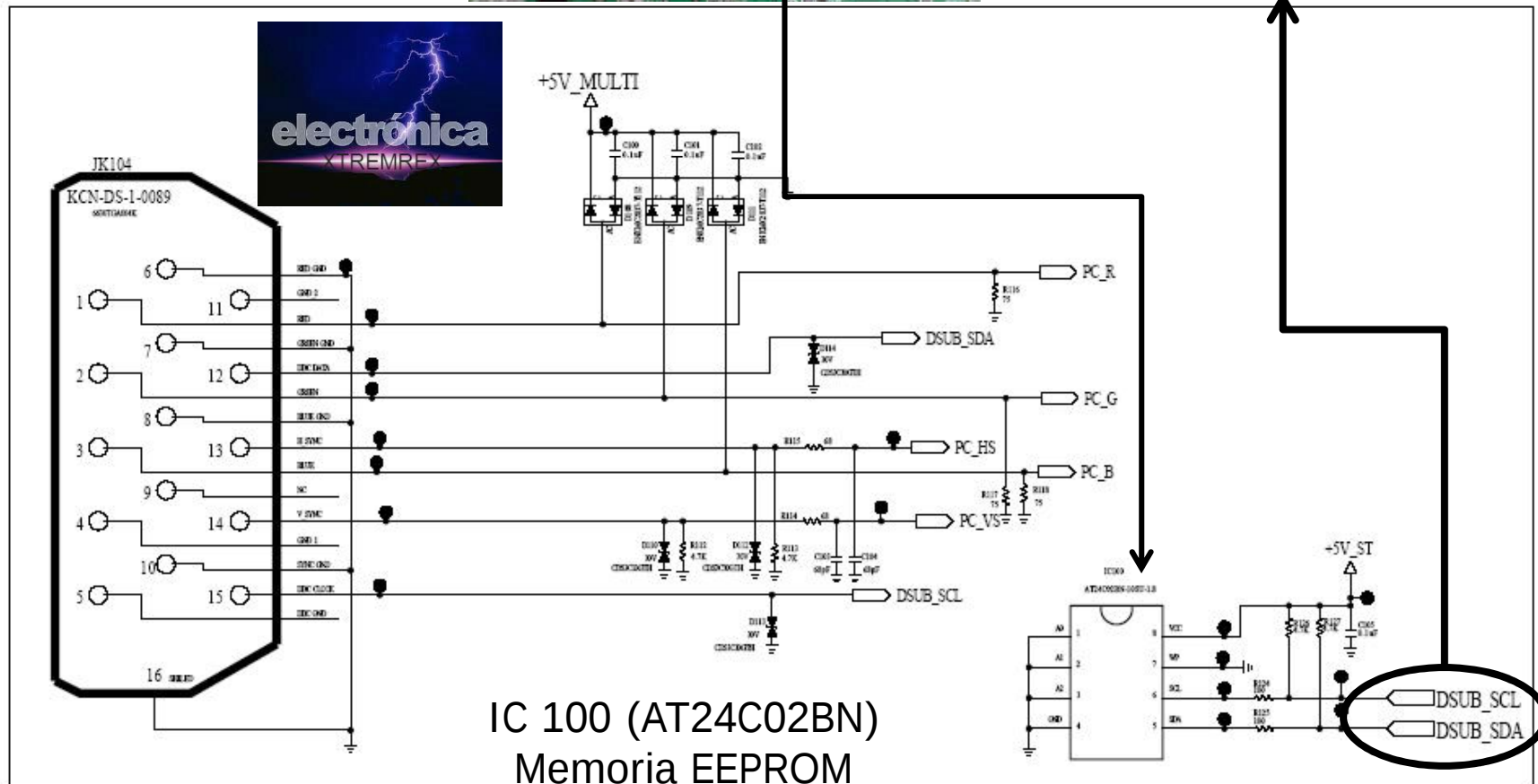
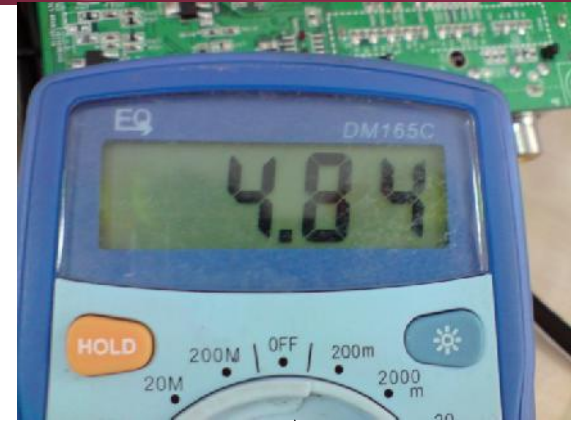
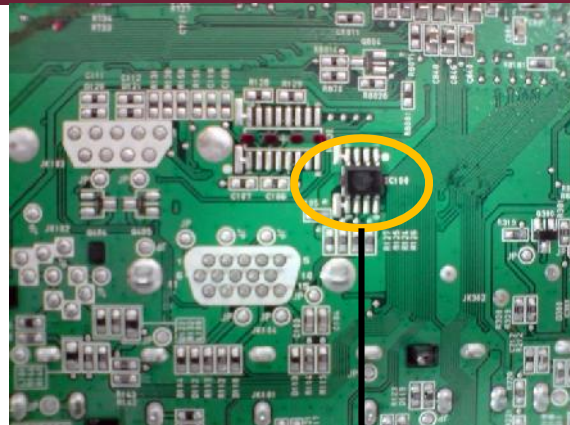
Main Board



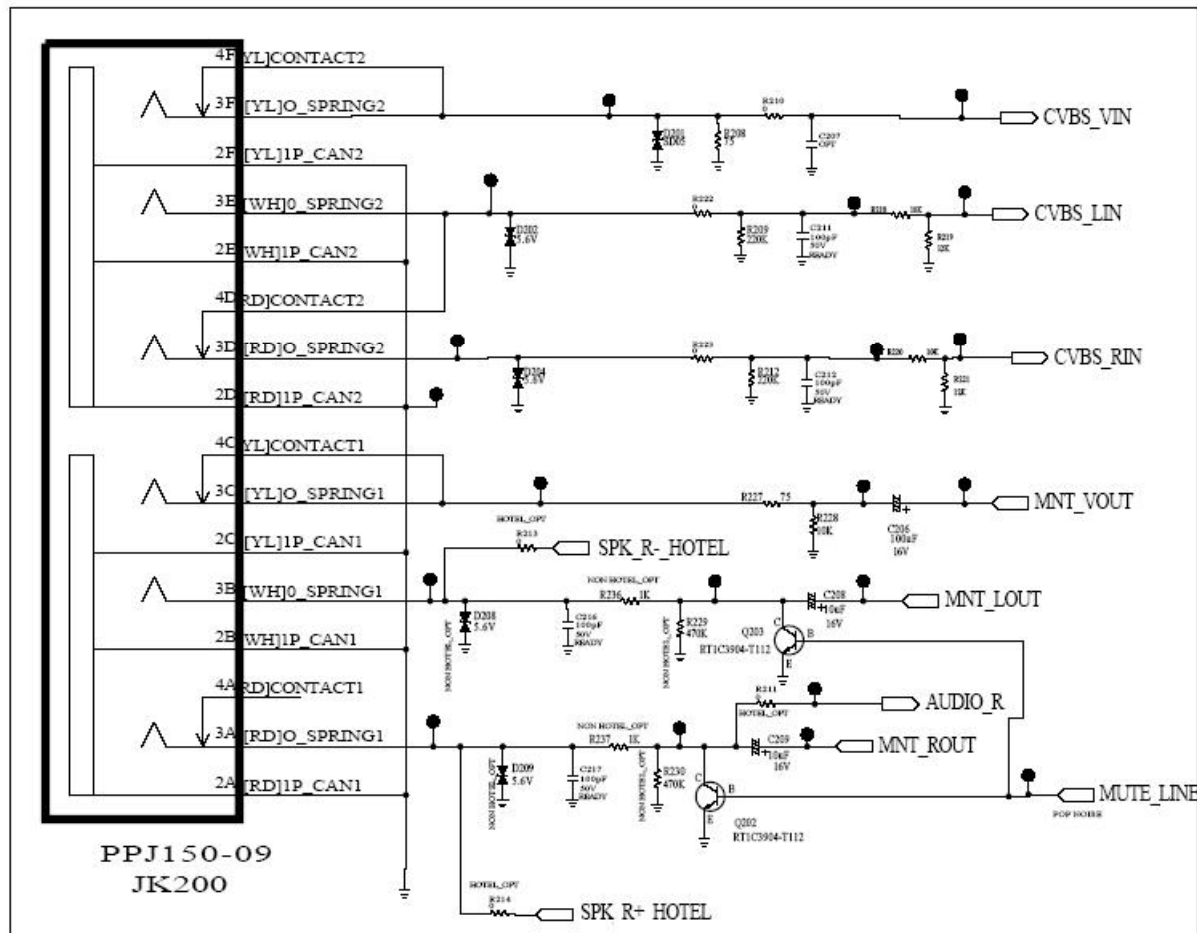
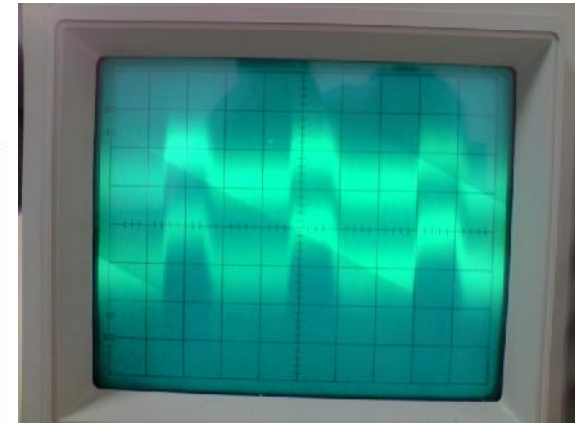
Componente 1 y 2



Entrada de RGB



Entrada de Audio y Video

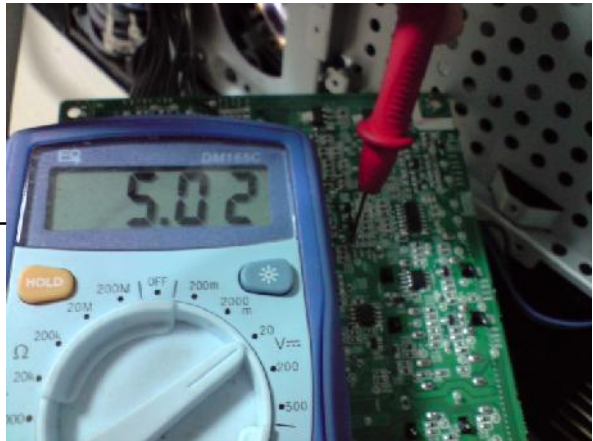




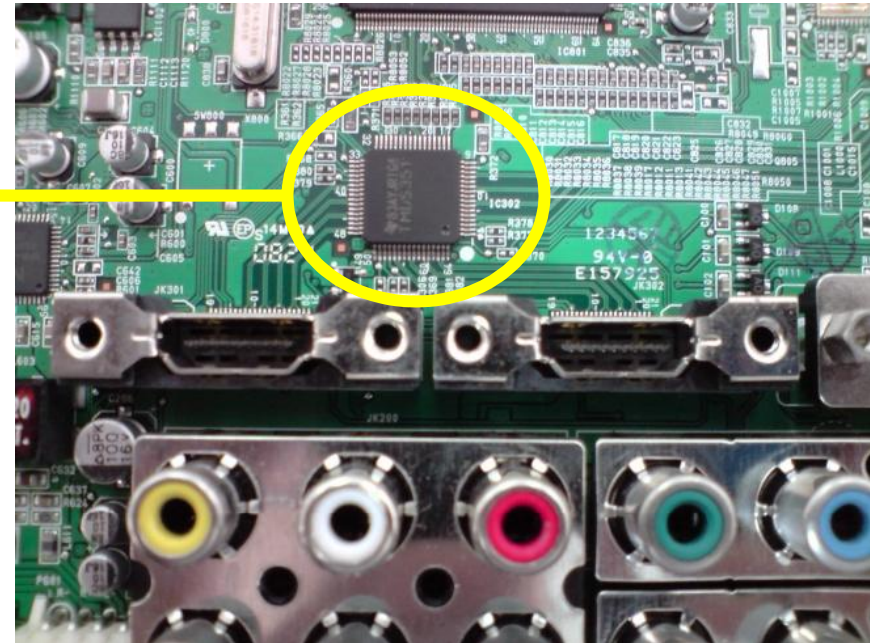
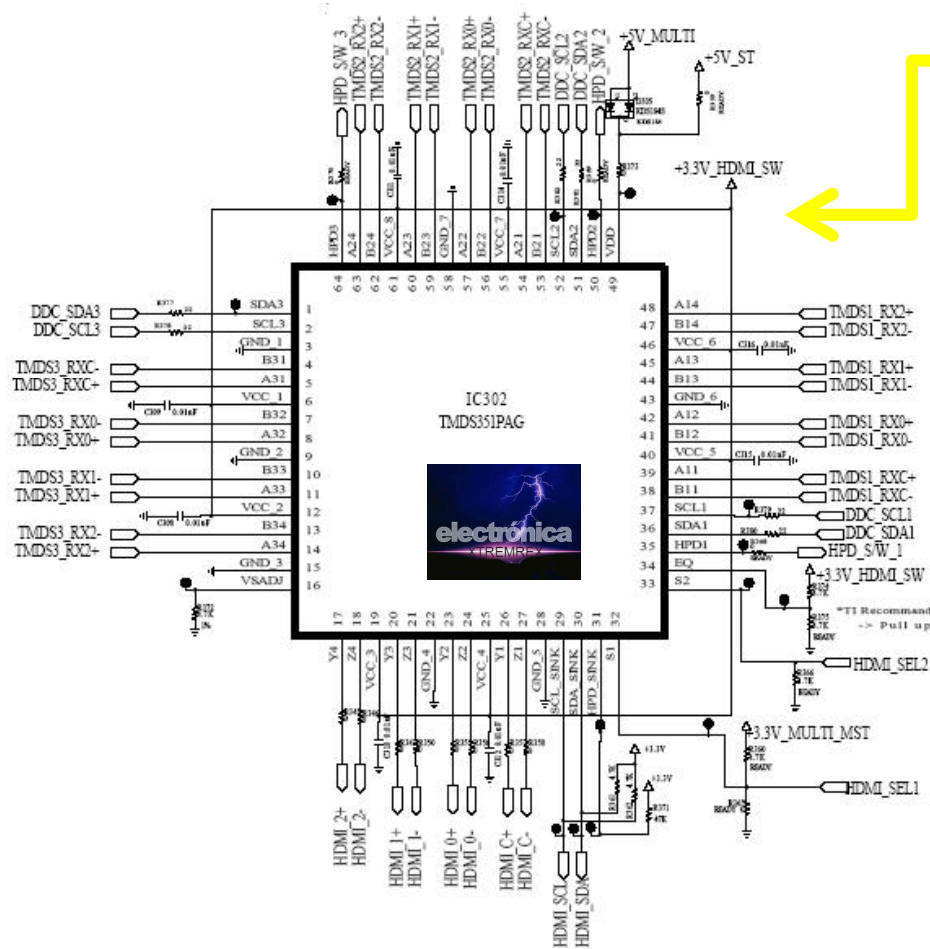
HDMI

IC 301 (AT24C02BN)

Memoria EEPROM



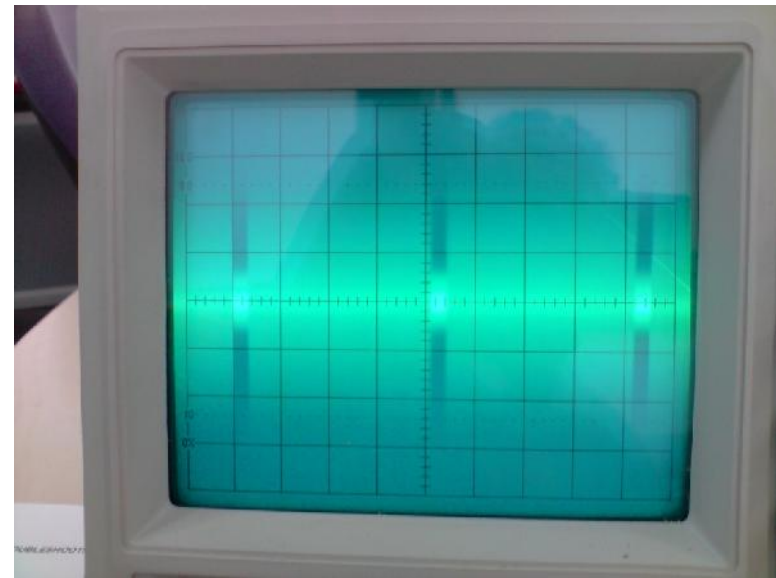
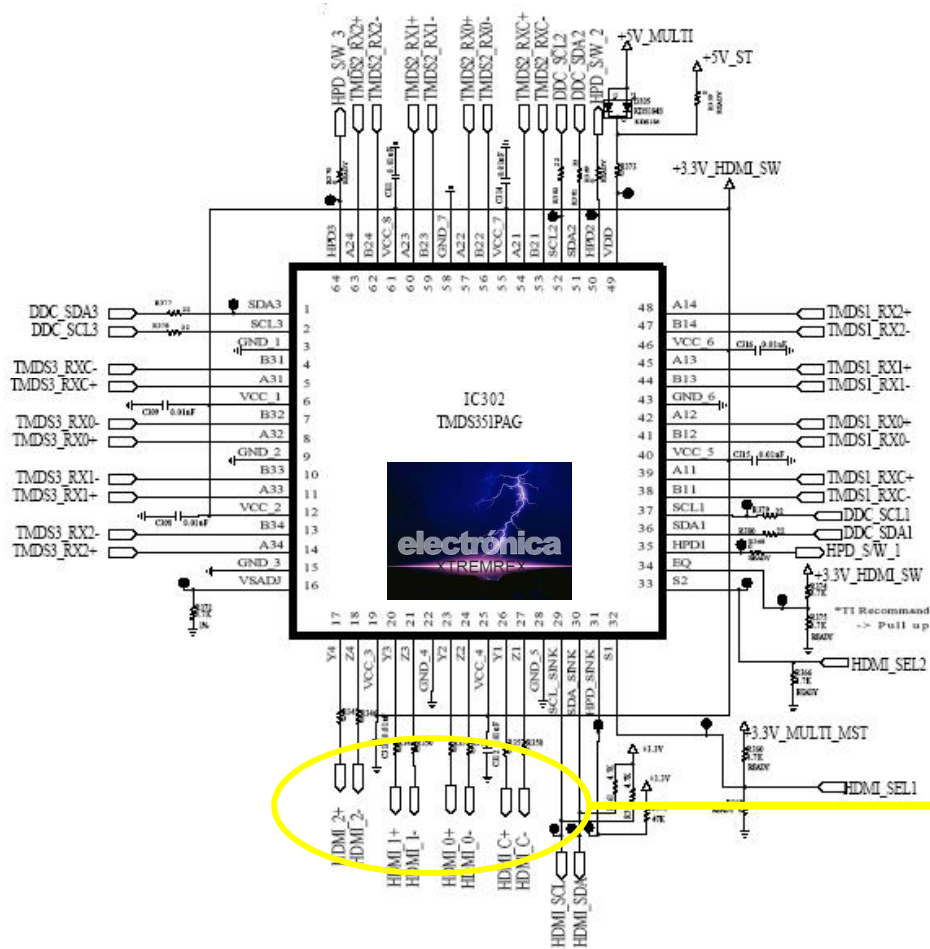
DVI – HDMI Switch



IC 302 (TMS351PAG)

Cuenta con tres (3) puertos DVI y HDMI con una velocidad de 2.5 Gbps por puerto, así mismo cada uno soporta una resolución de 1080p.

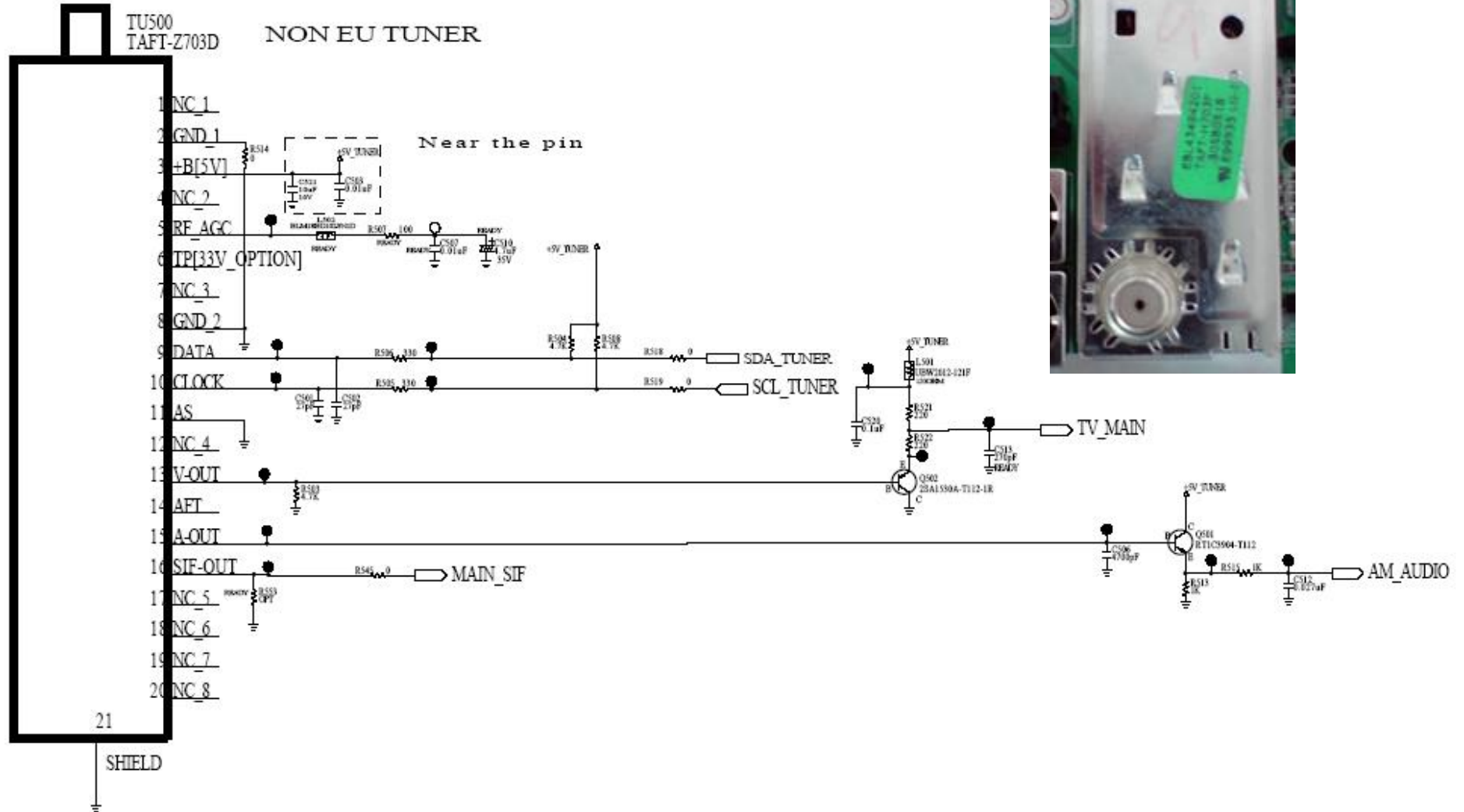
DVI – HDMI Switch



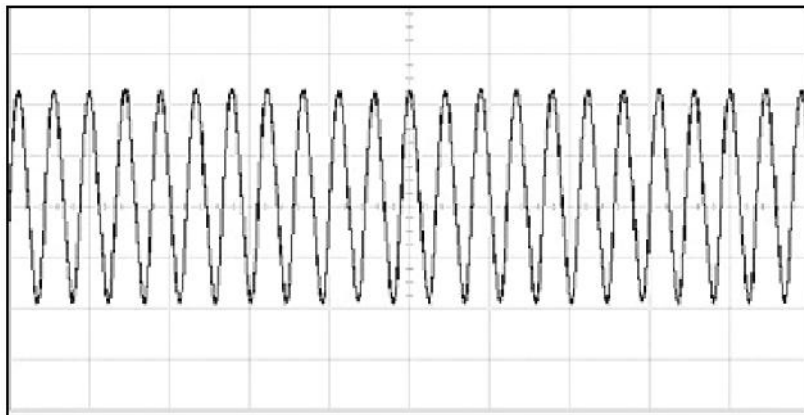
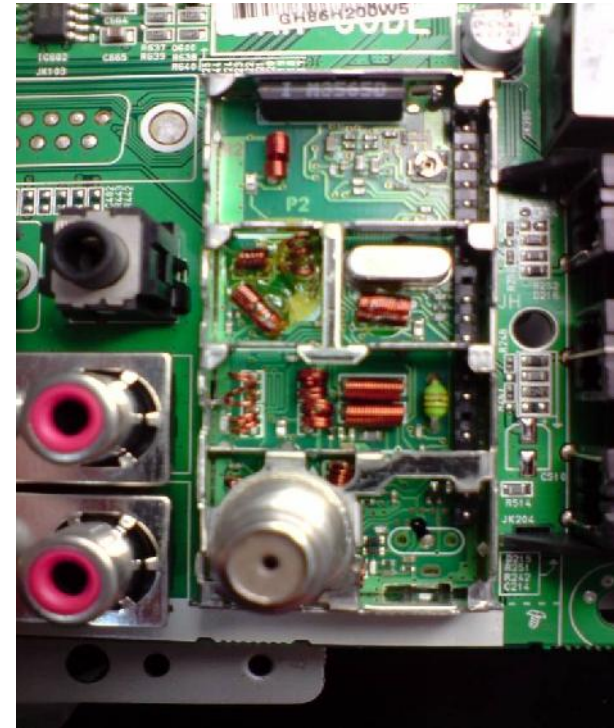
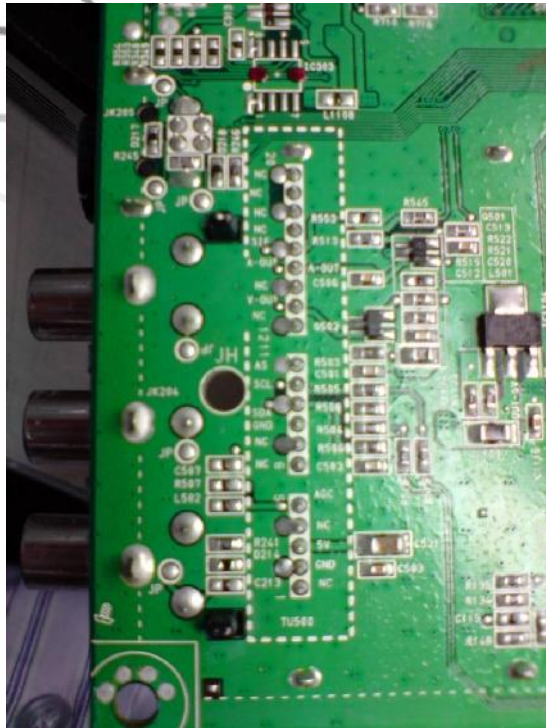


TUNER

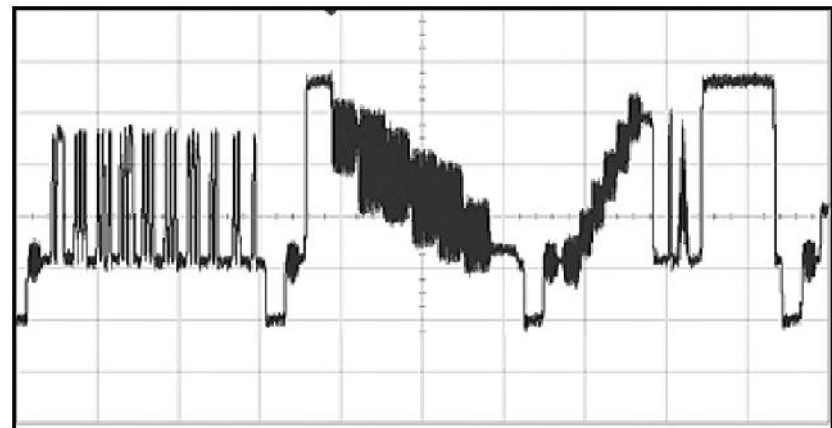
Tuner



Tuner



Señal de Audio – Pin 16



Señal de Video – Pin 13

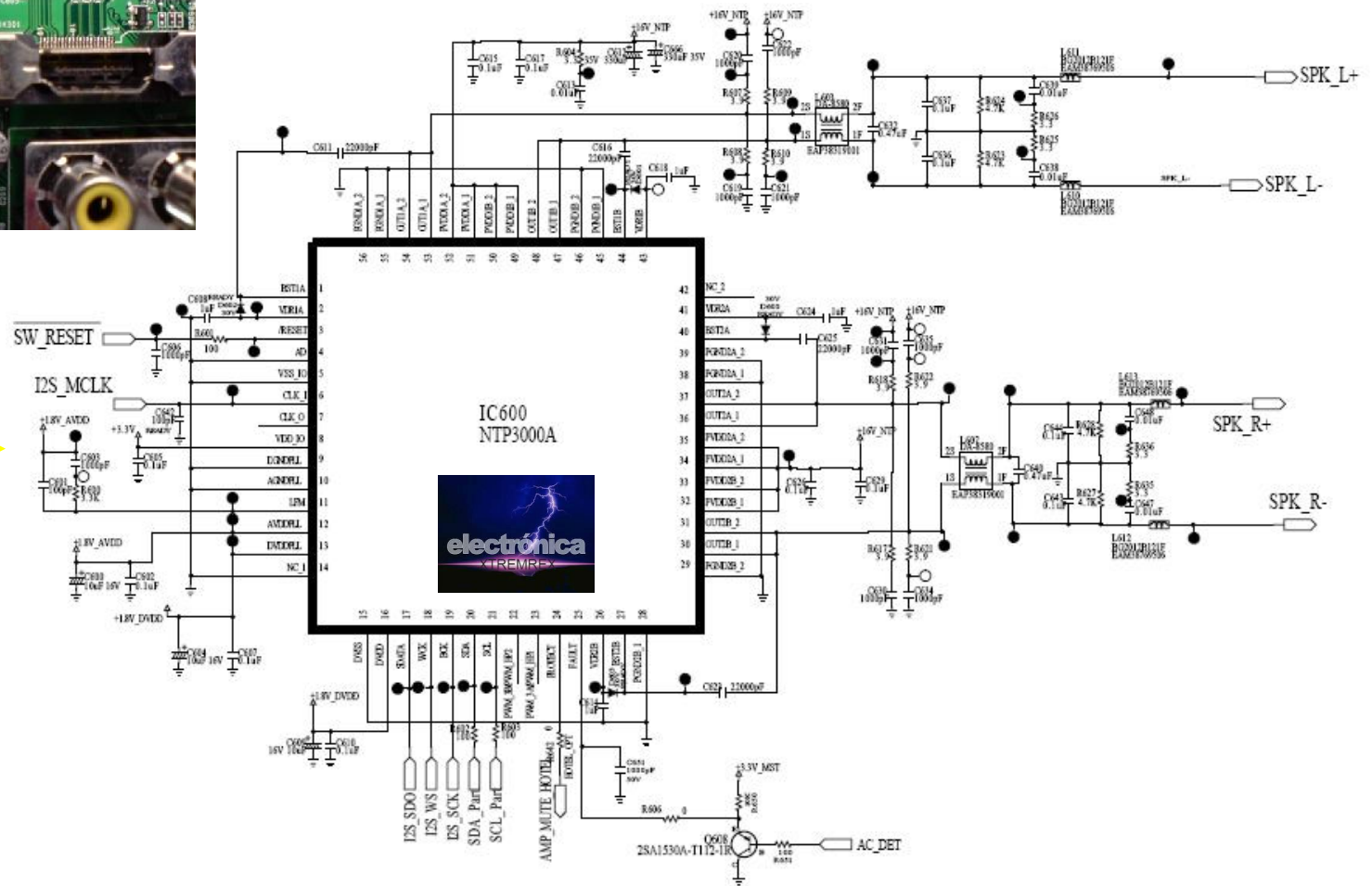
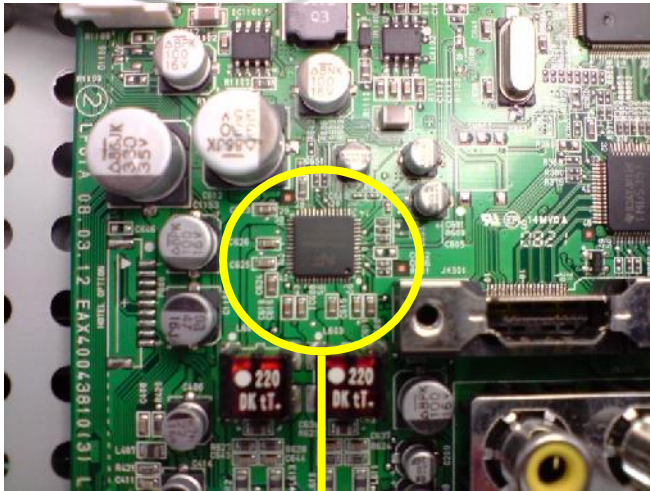


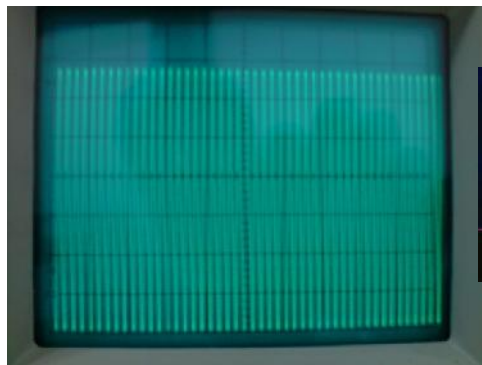
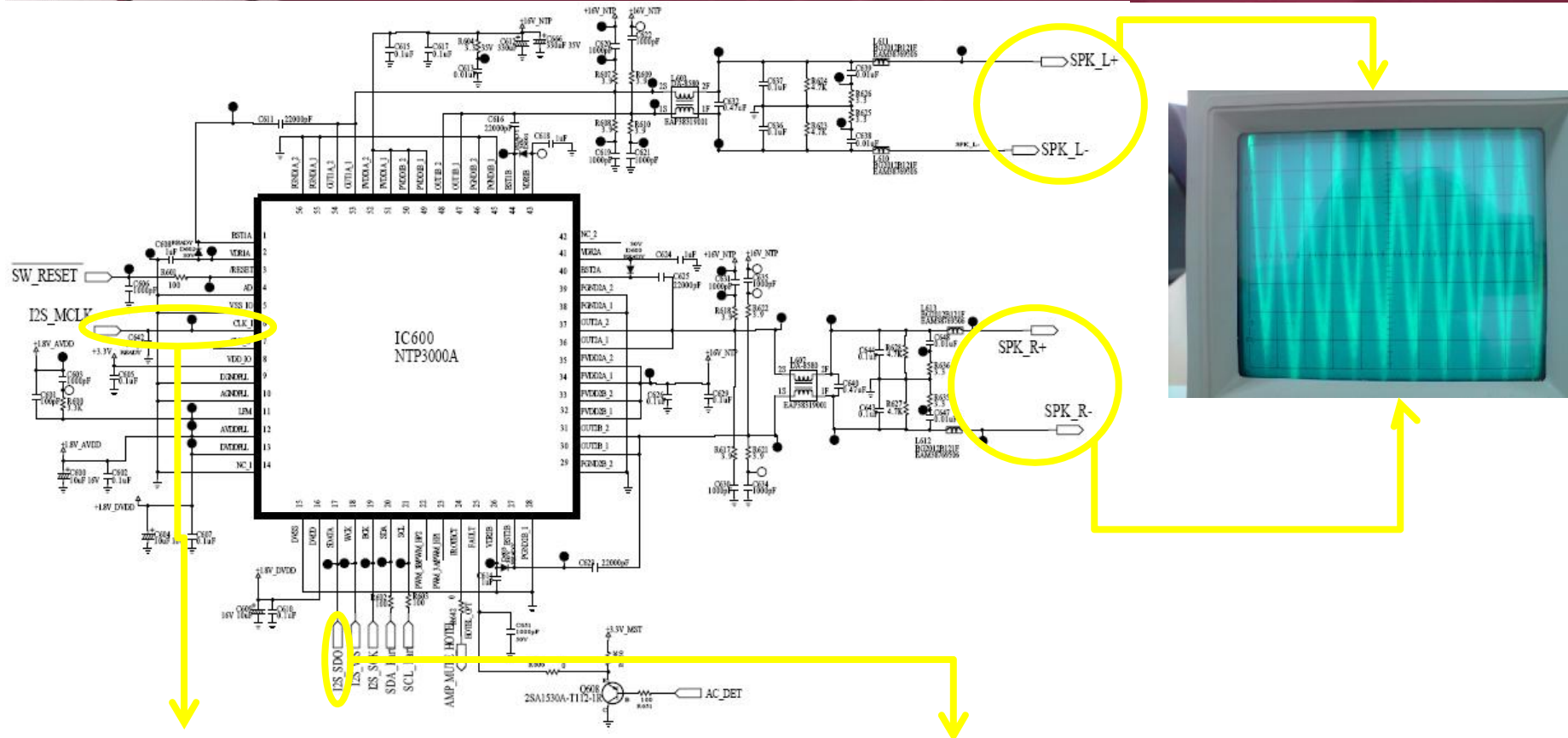
AUDIO

Audio

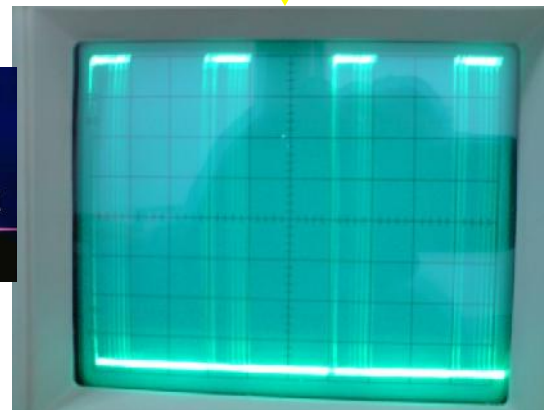
IC 600 (NTP3000A)

Amplificador de audio 40w



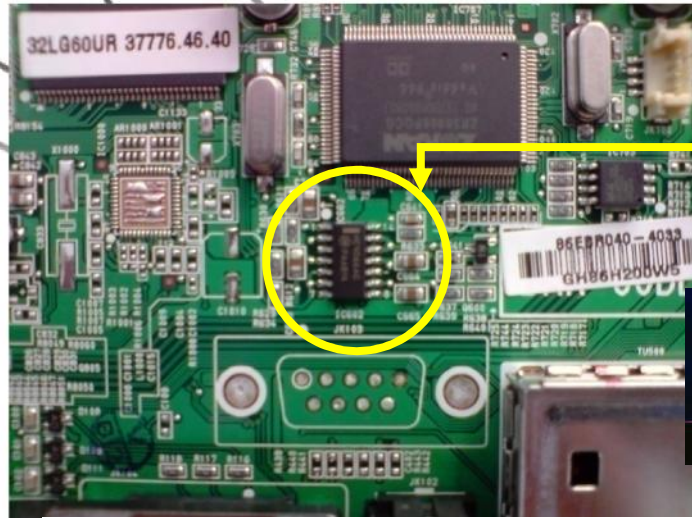


CLK

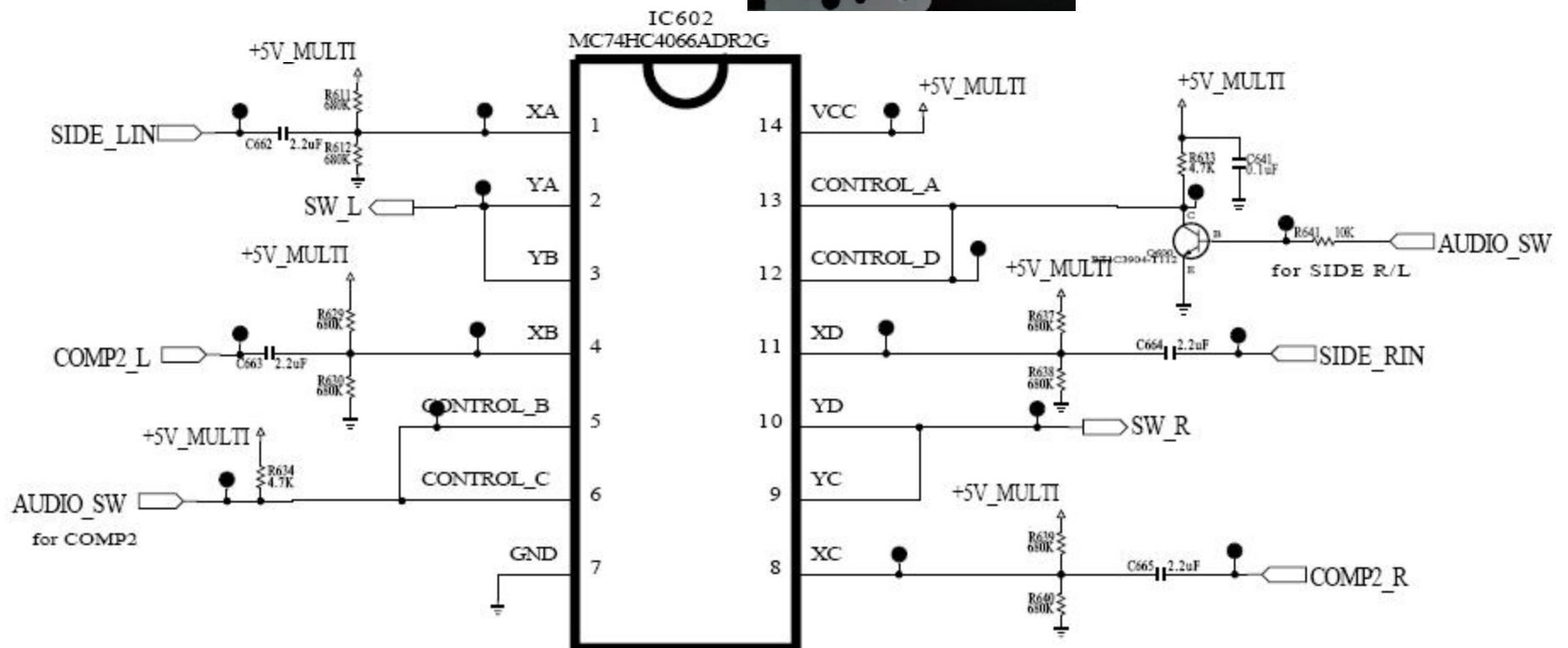


SDATA

Audio



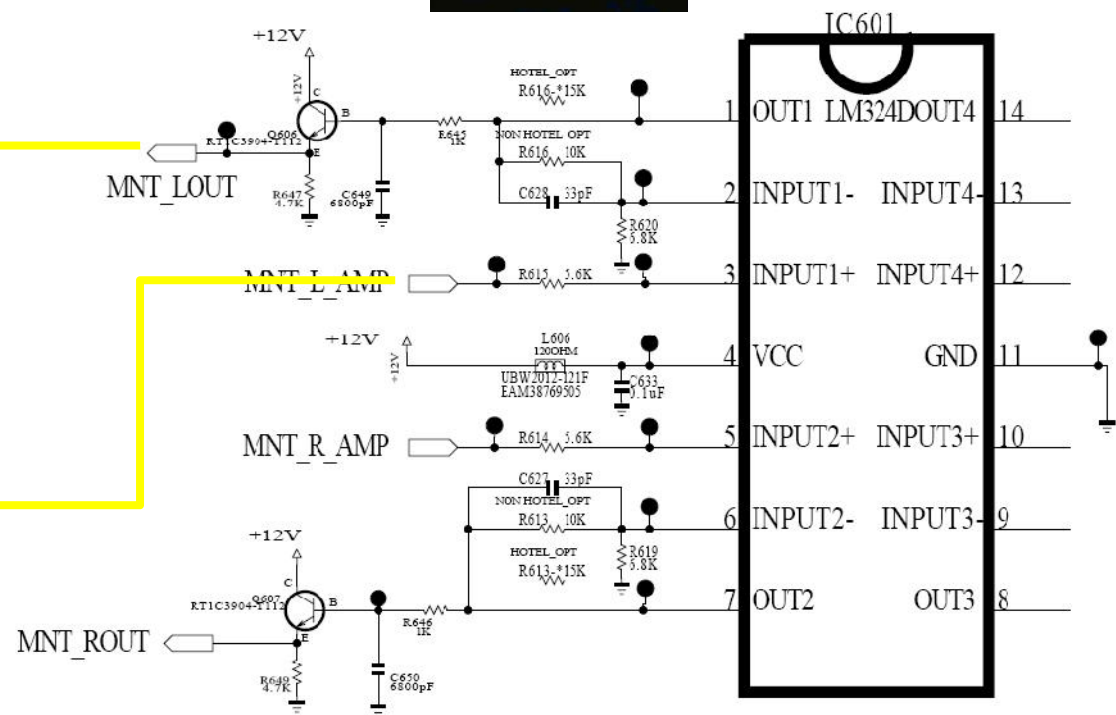
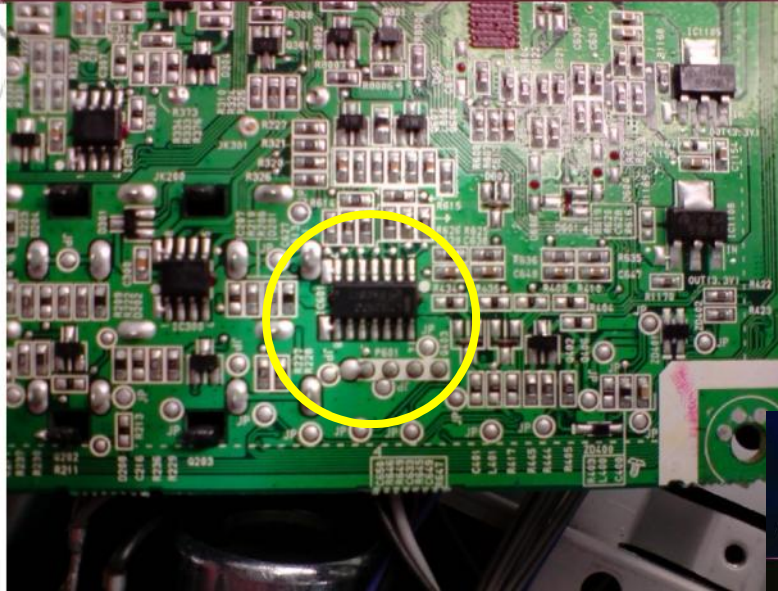
IC602 (MC74HC4066ADR2G)
Multiplexor – Demultiplexor
Switch entre side L/R y
Comp2



Audio

IC601 (LM324)

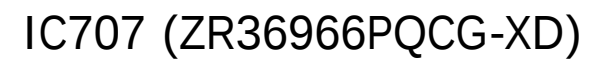
Amplificador Operacional





USB

electrónica
XTREME





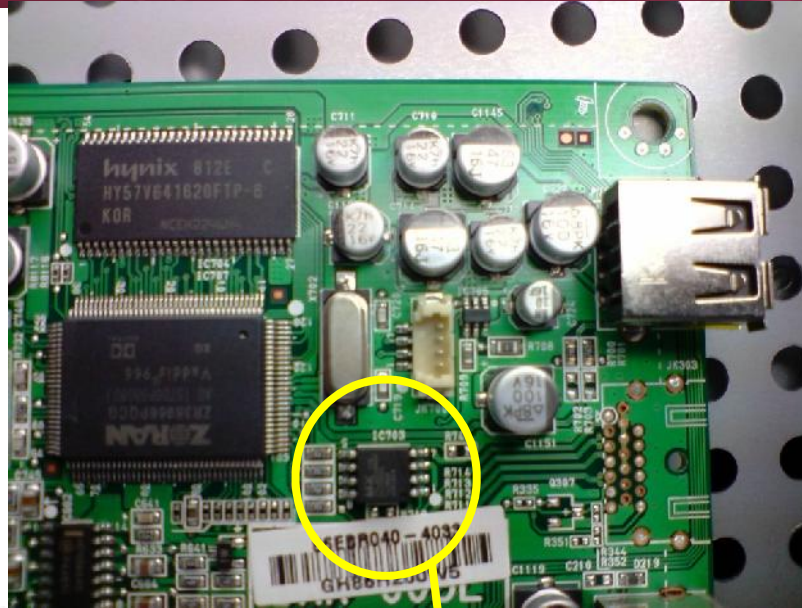
IC704 (HY57V641620FTP)
DRAM 64Mb

USB

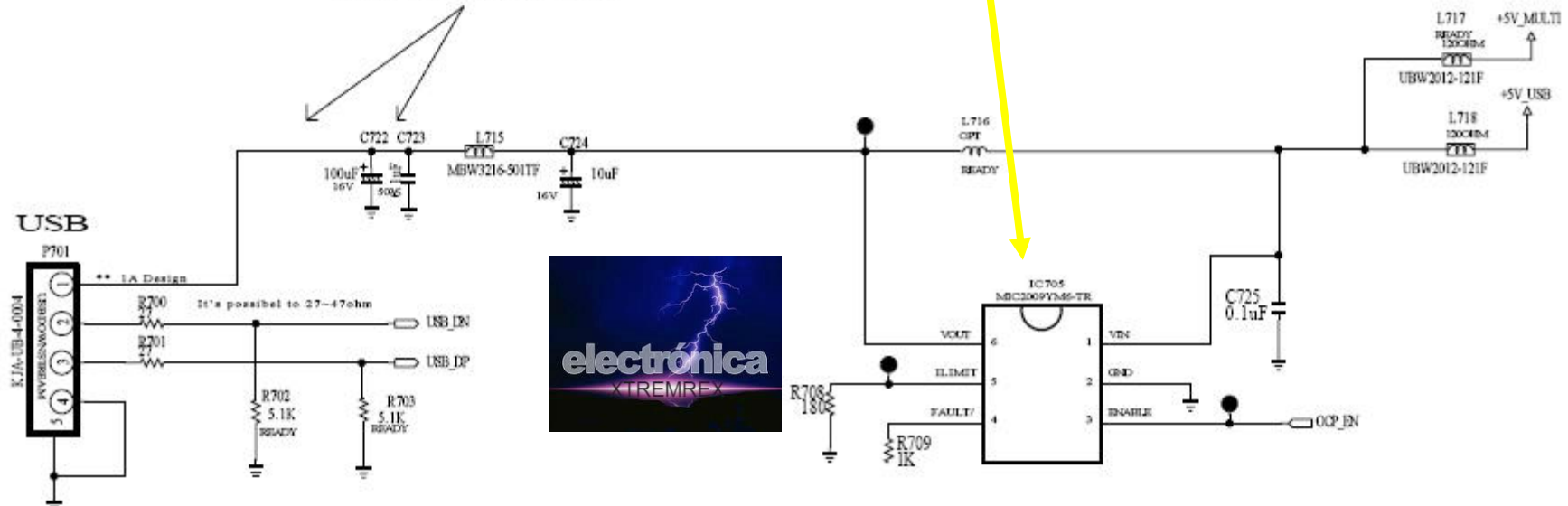
IC705 (MIC2009YM6-TR)

Switch y Limitador de Corriente.

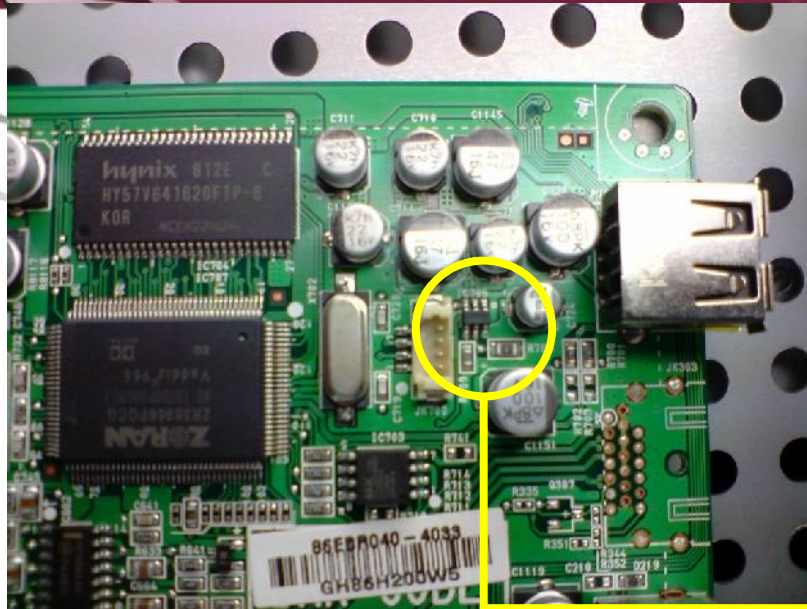
Protección térmica (Shutdown)



Capacitors on VBUSA should be placed as close to Connector as possible.



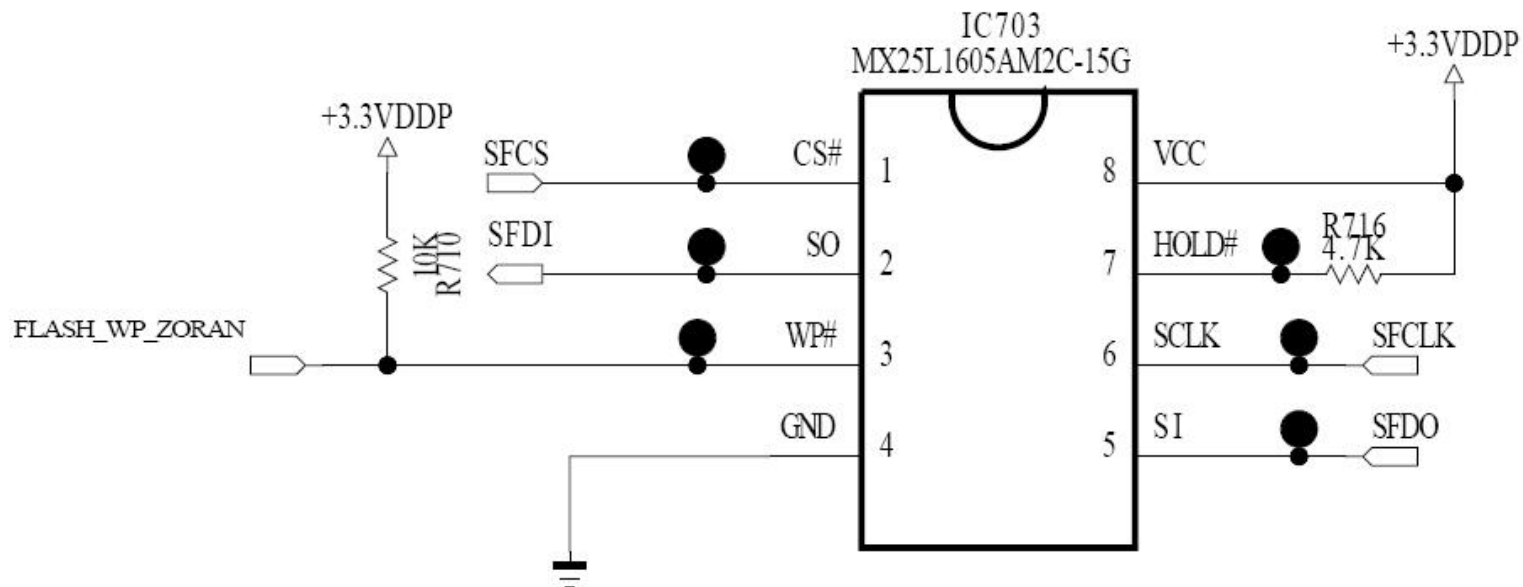
USB



IC703 (MX25L1605AM2C)

Memoria Flash 64Mb

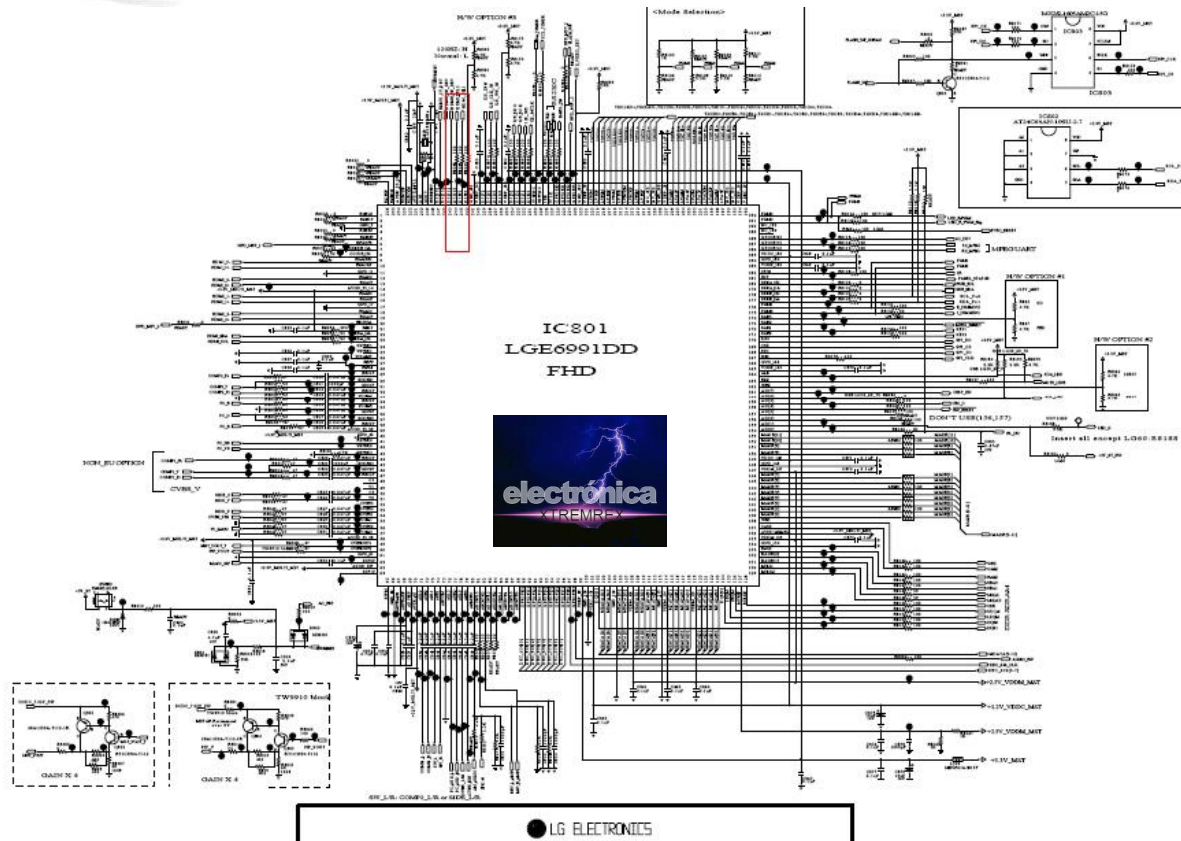
IC703_USB





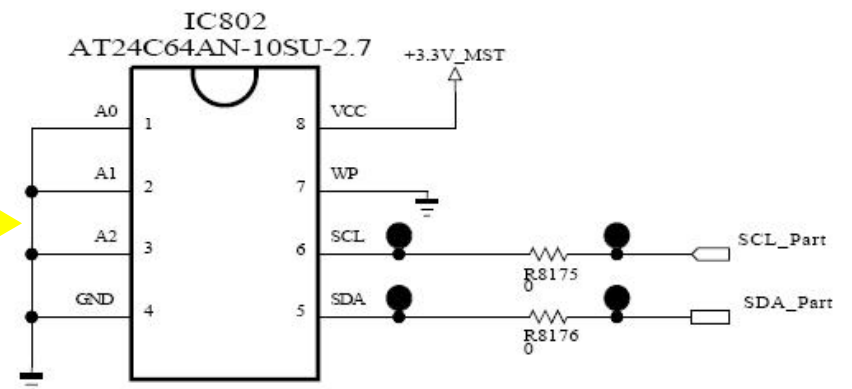
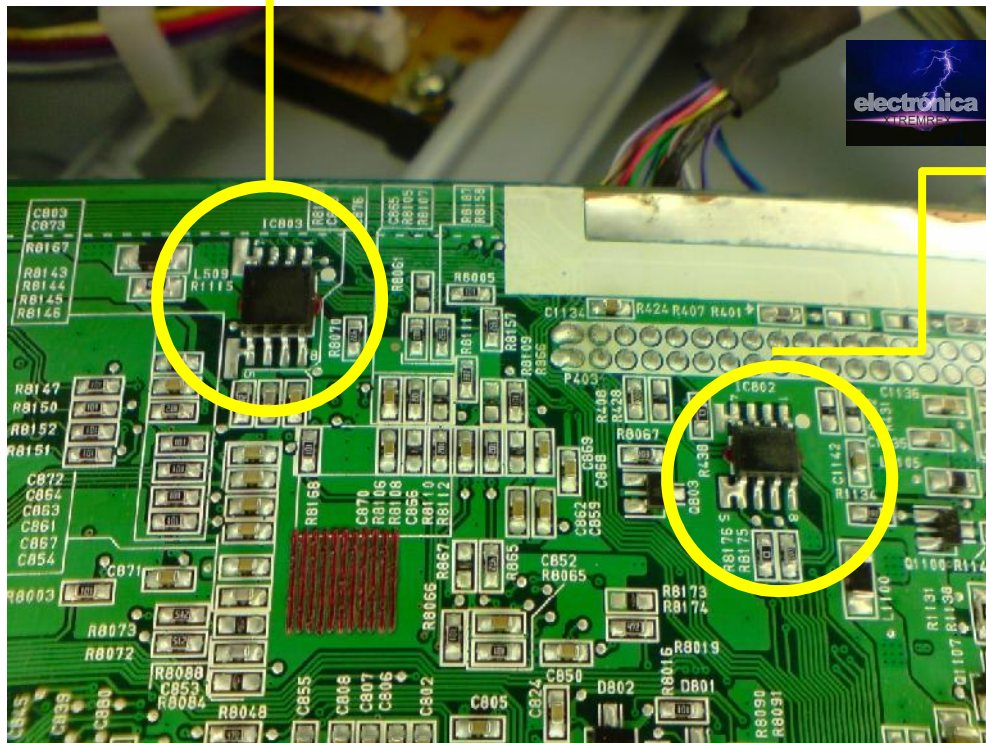
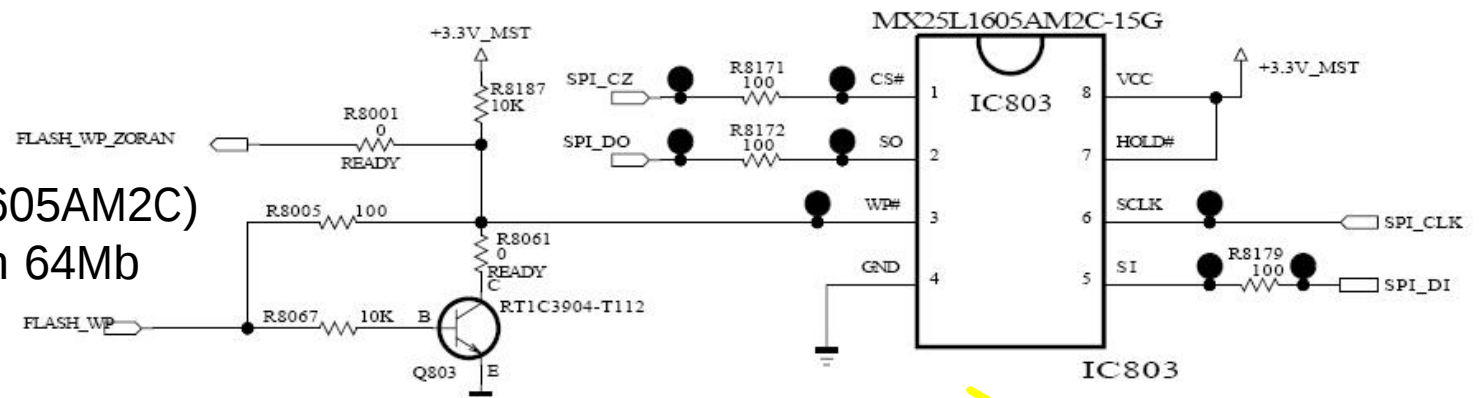
MICROPROCESADOR

Microprocesador



Microprocesador

IC 803 (MX25L1605AM2C)
Memoria Flash 64Mb



IC 802 (AT24C64AN)
Memoria EEPROM



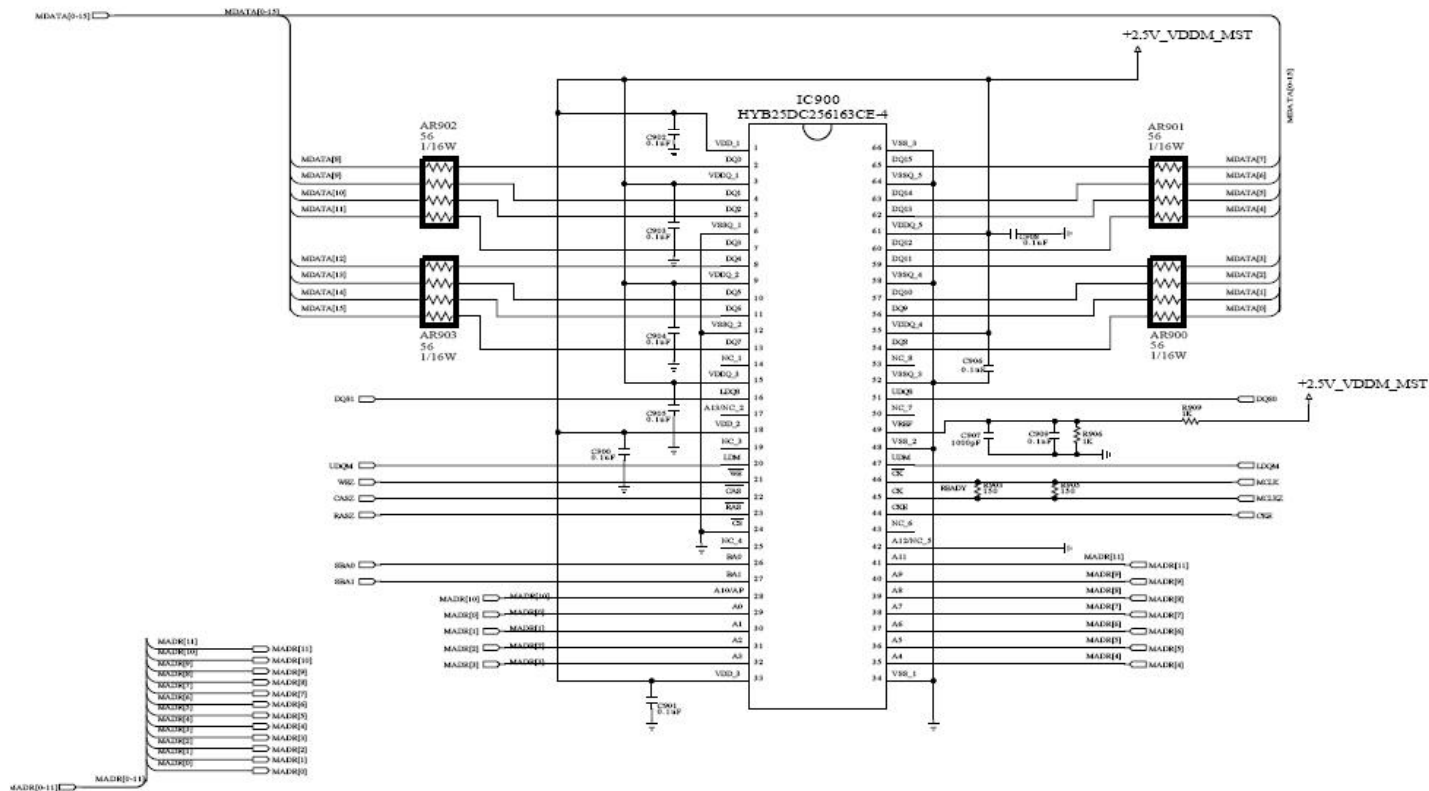
MEMORIA DDR

DDR



IC900 (HYB25DC256163CE-4)

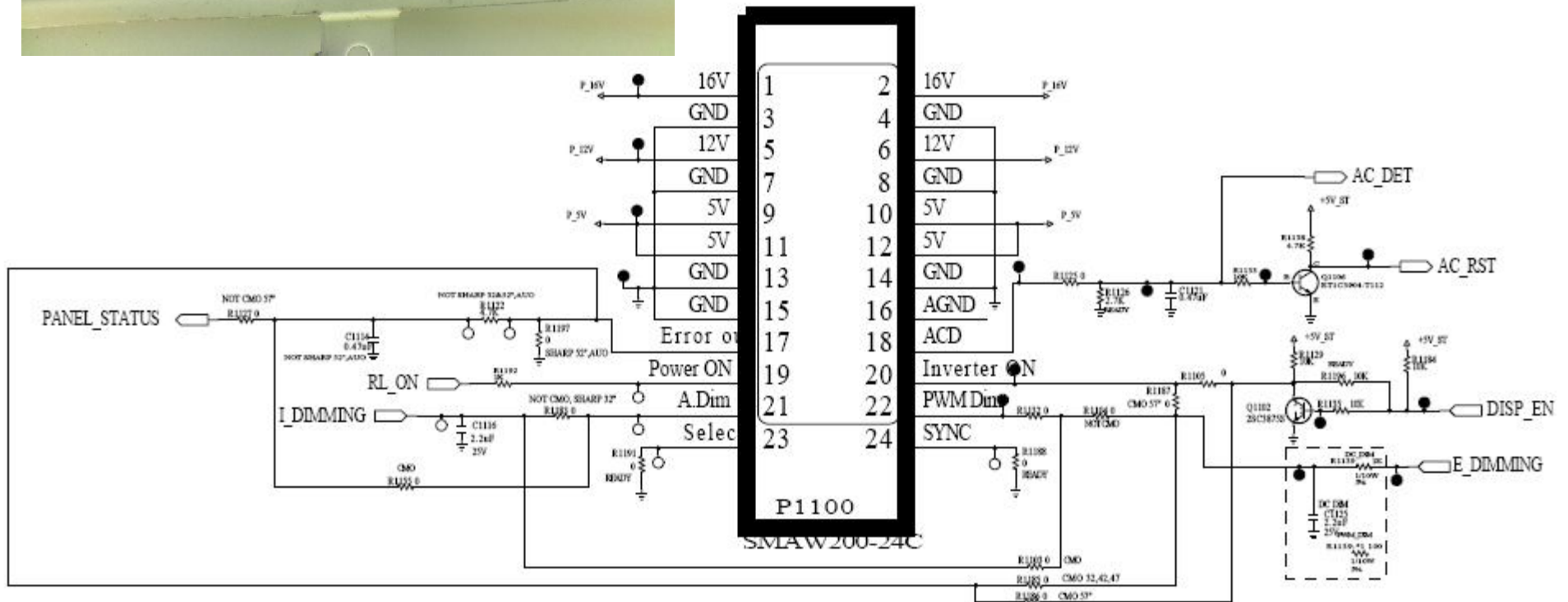
256-Mbit Double-Data-Rate SGRAM



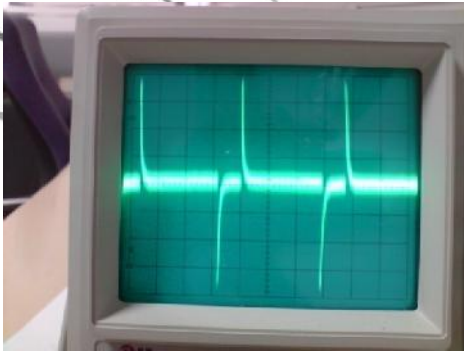


CONECTORES Y REGULADORES

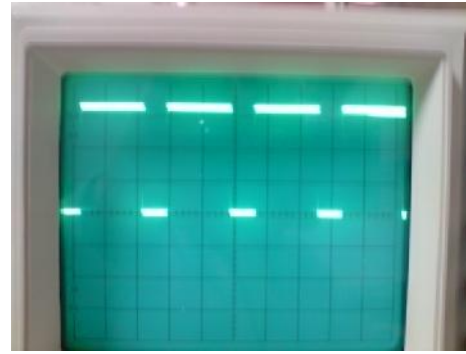
Conector



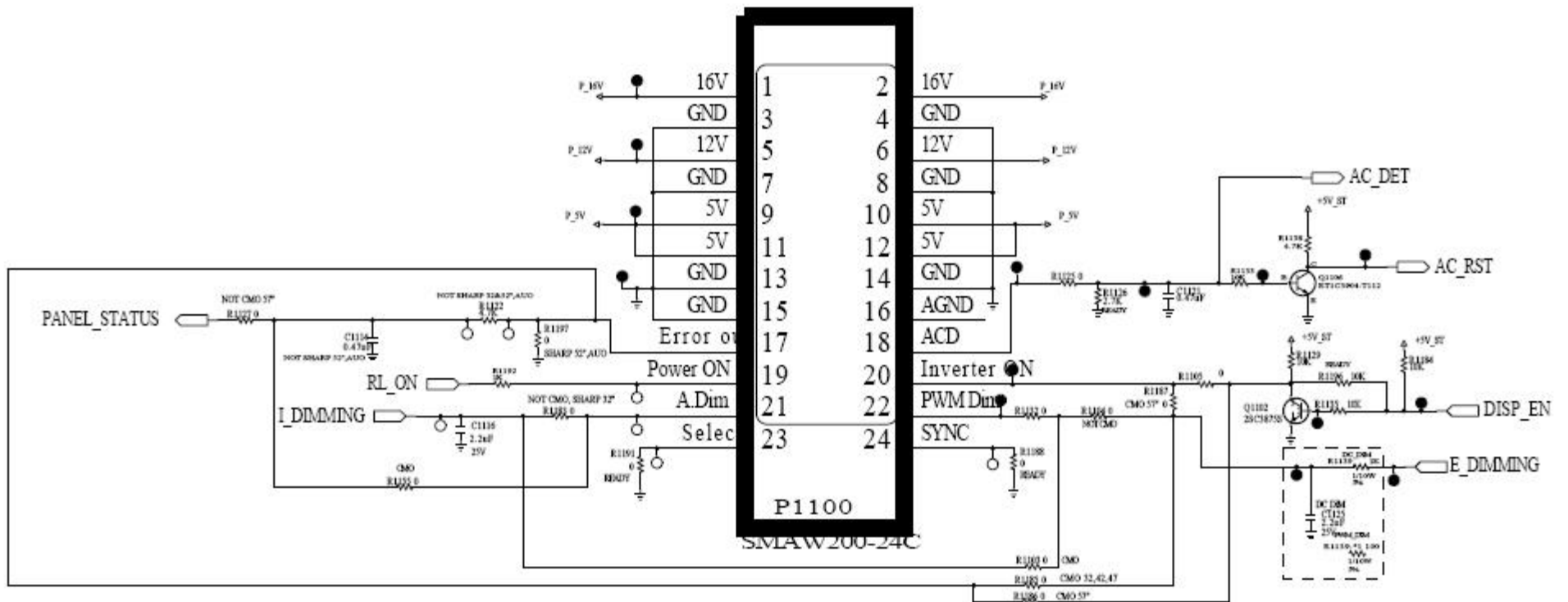
Conector



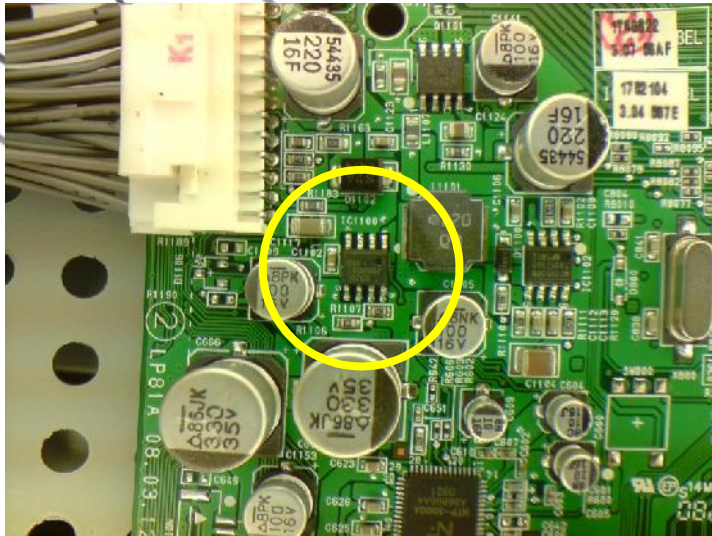
SYNC (Pin 24)



PWM (Pin 22)

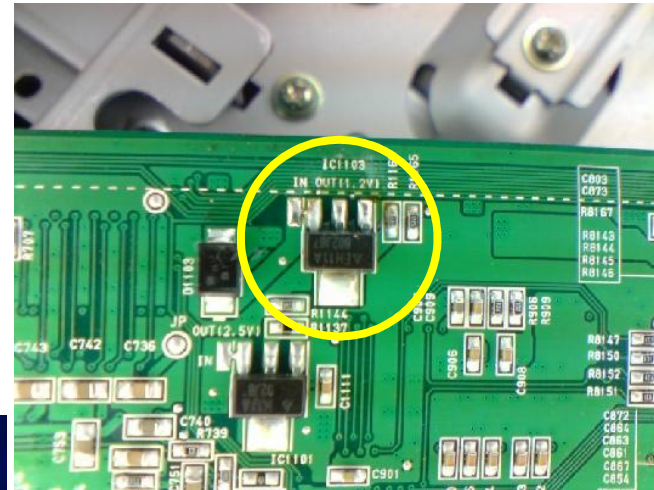


Reguladores



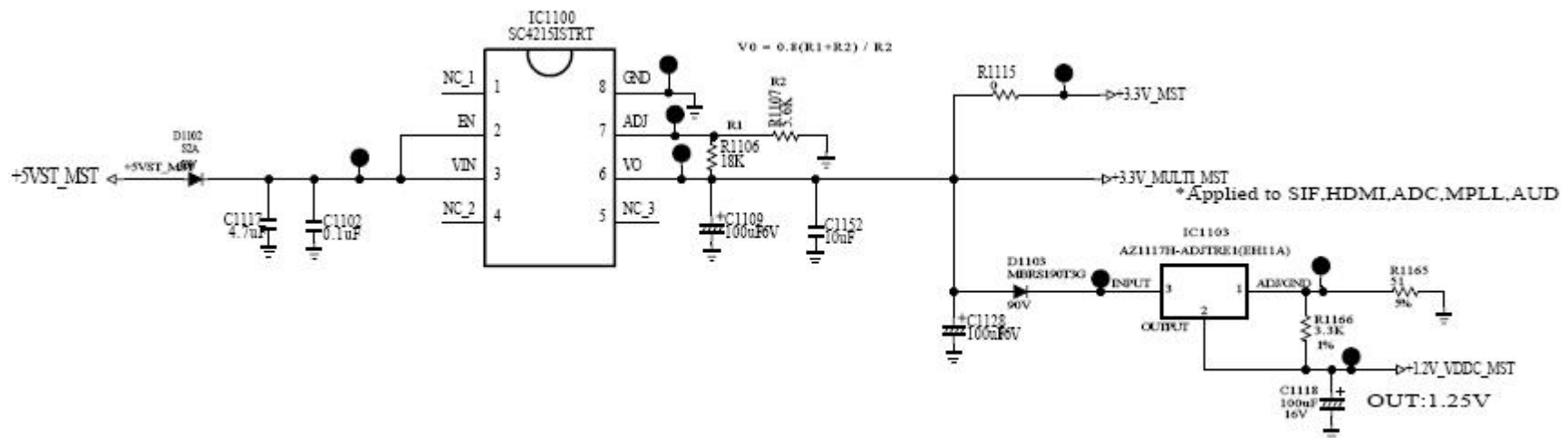
IC1100 (SC4215ISTRT)

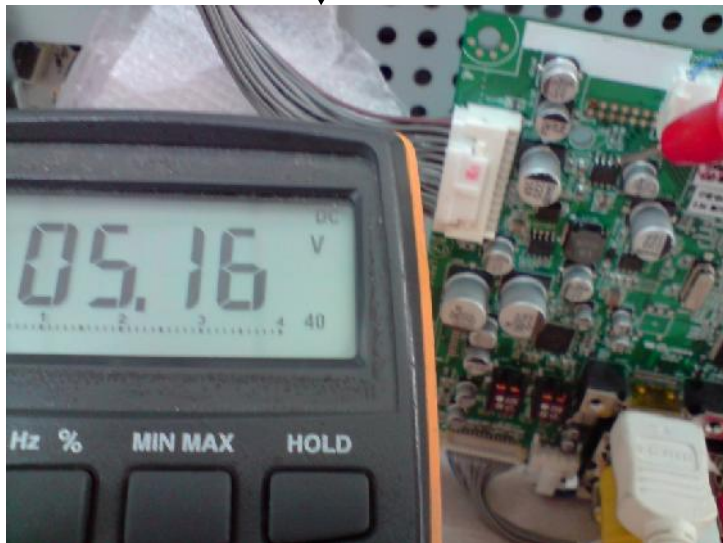
Regulador de voltaje – 2A



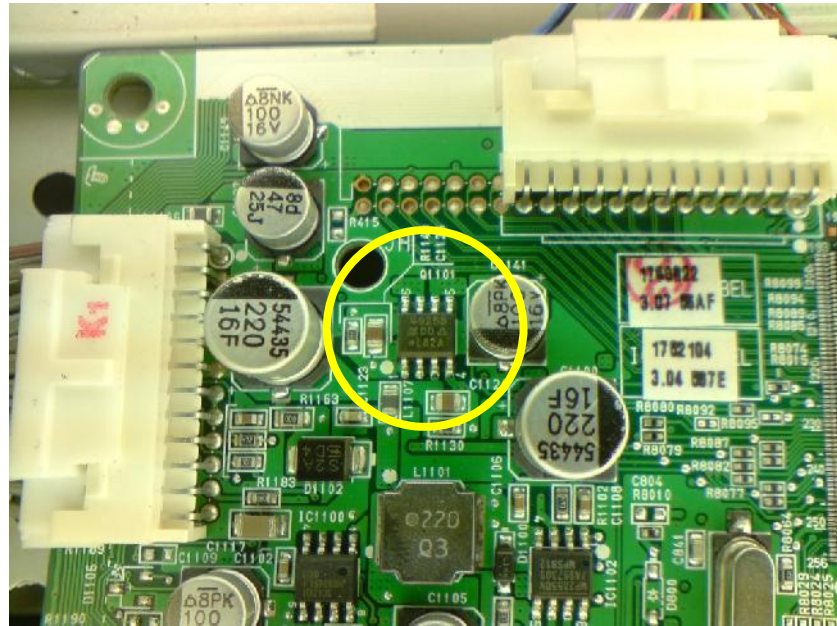
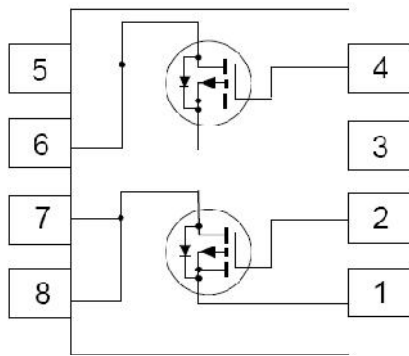
IC1103 (AZ1117H-ADJTRE1)

Regulador de voltaje – 1A



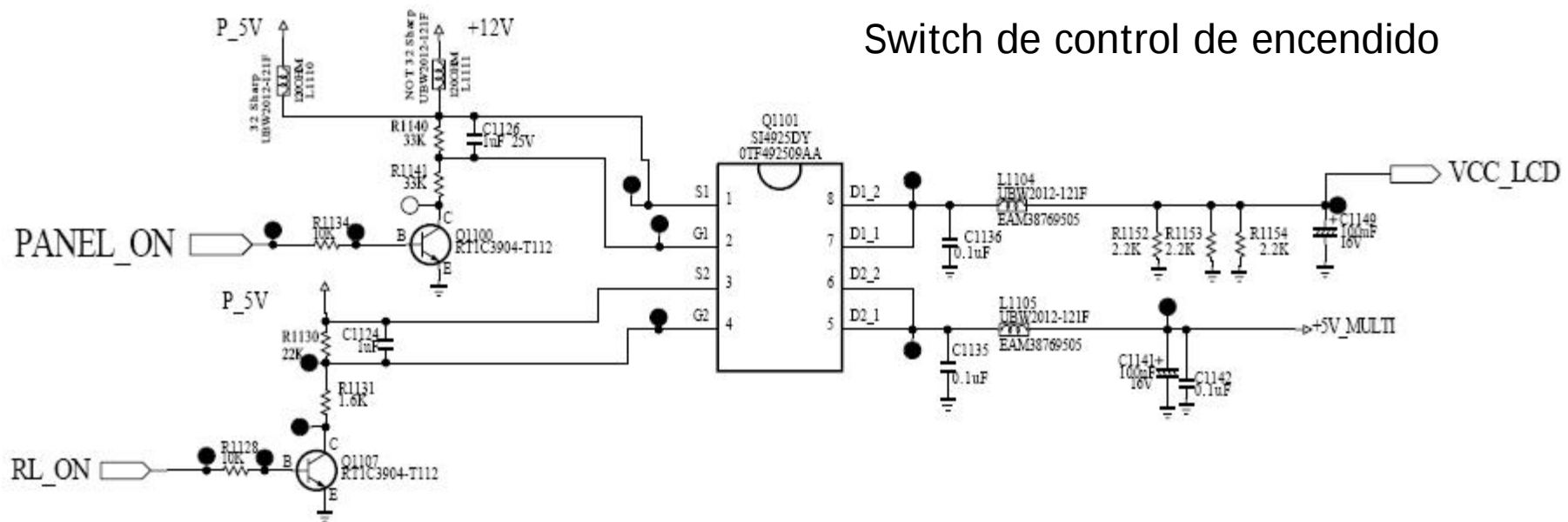


Switch de encendido

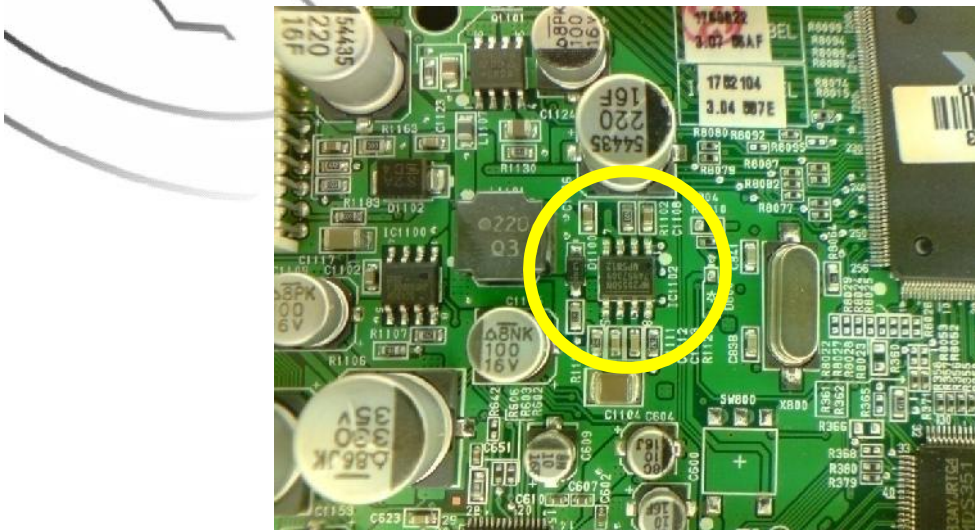


Q1101 (SI4925DY)

Switch de control de encendido

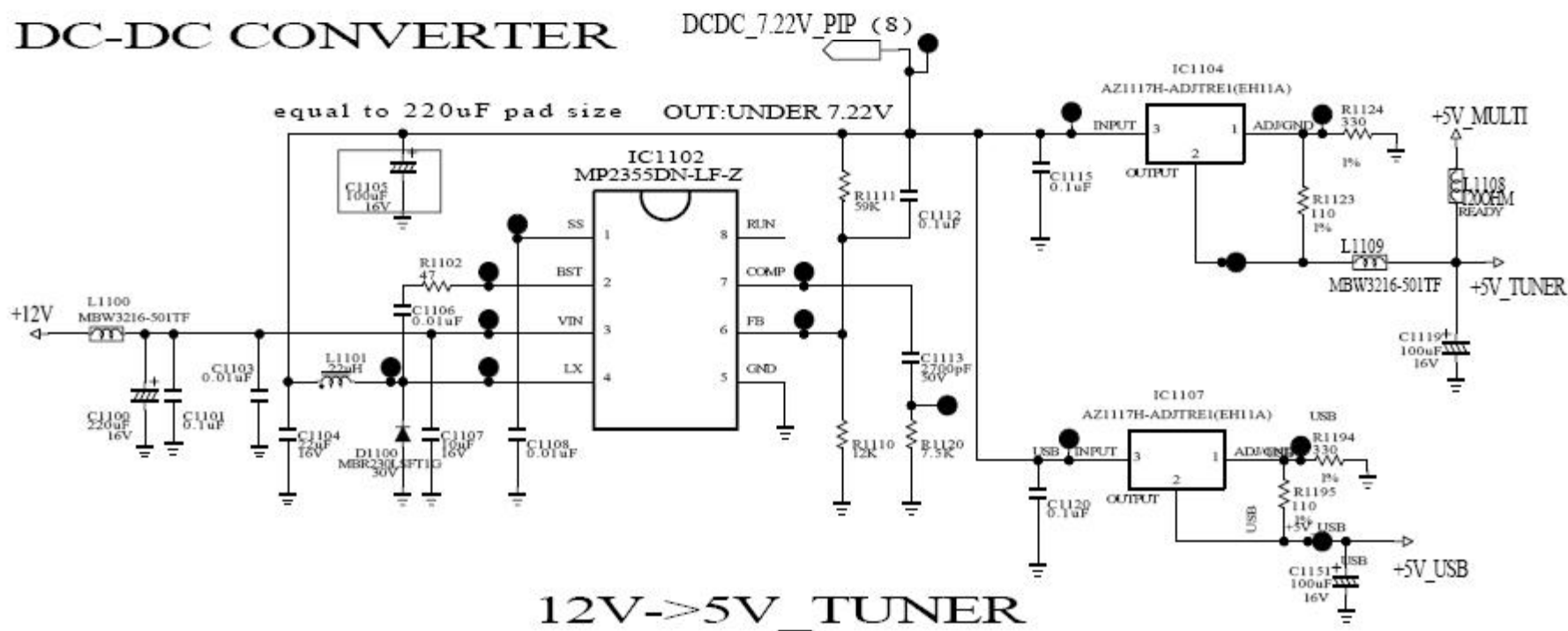


Conversor DC-DC

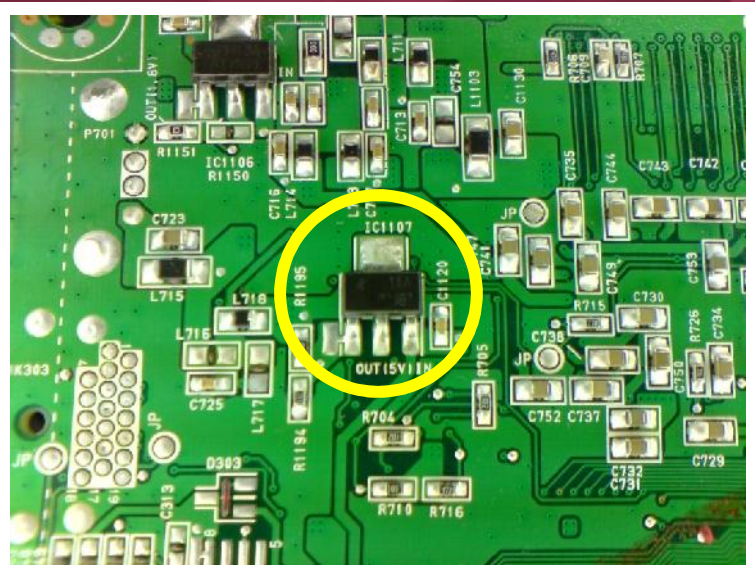
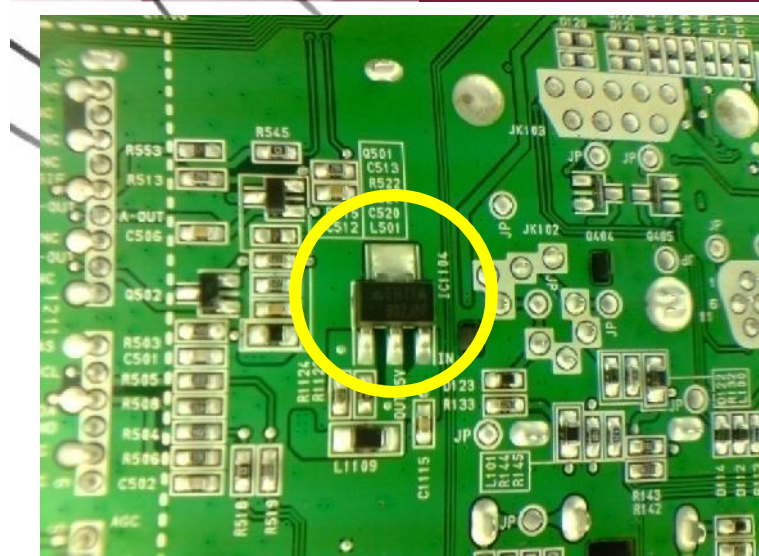


IC1102 (MP2355DN-LF-Z)

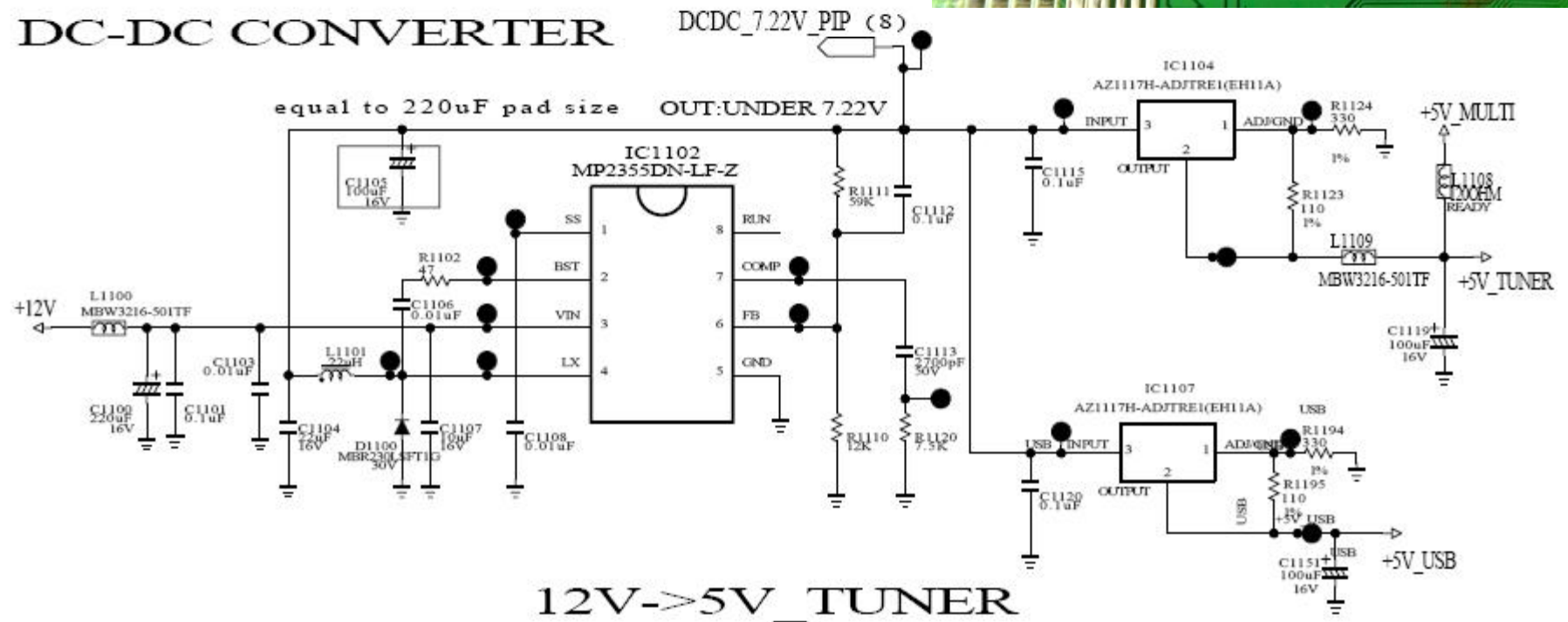
Regulador de voltaje, con un MOSFET de potencia interno que garantiza una salida de 3A



Conversor DC-DC



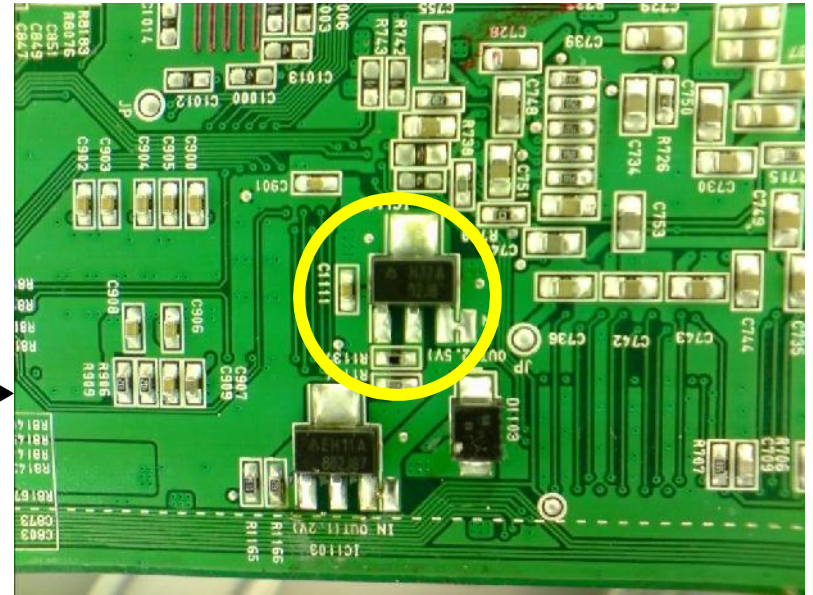
DC-DC CONVERTER



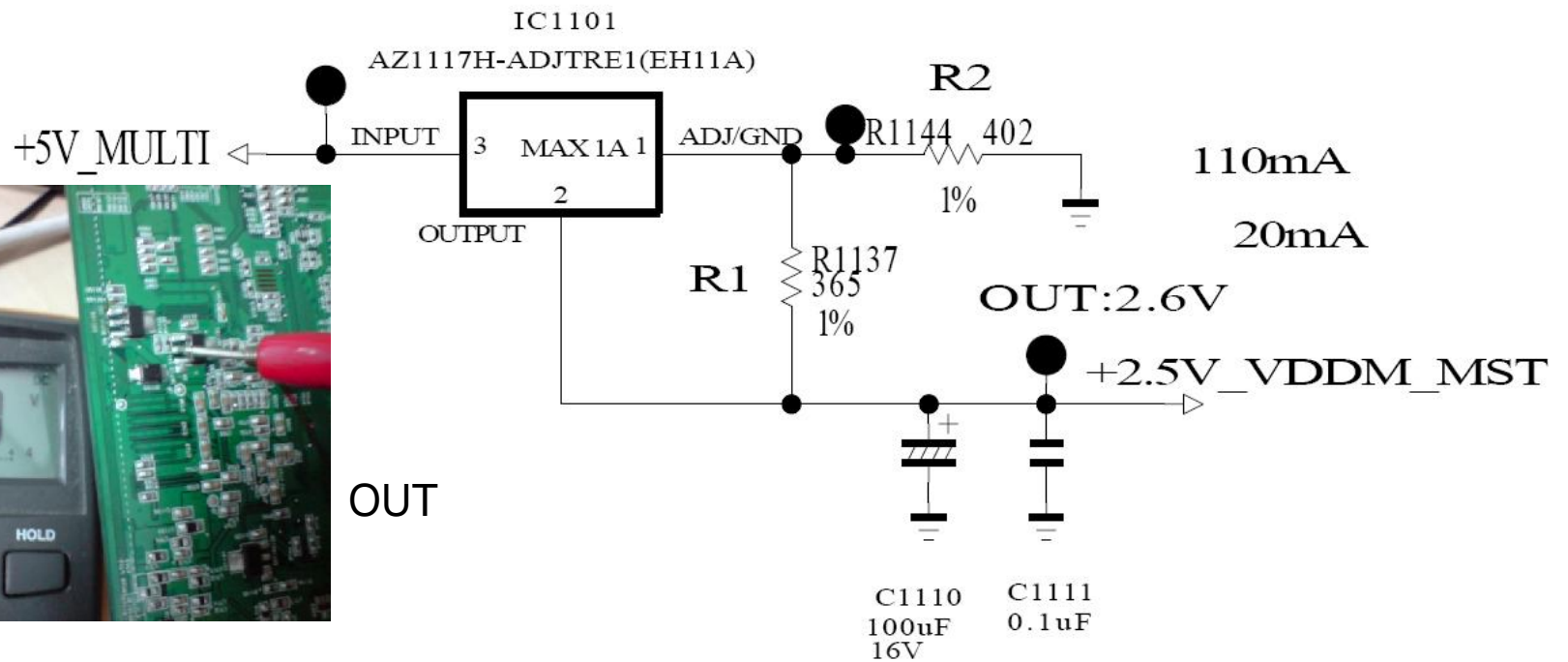


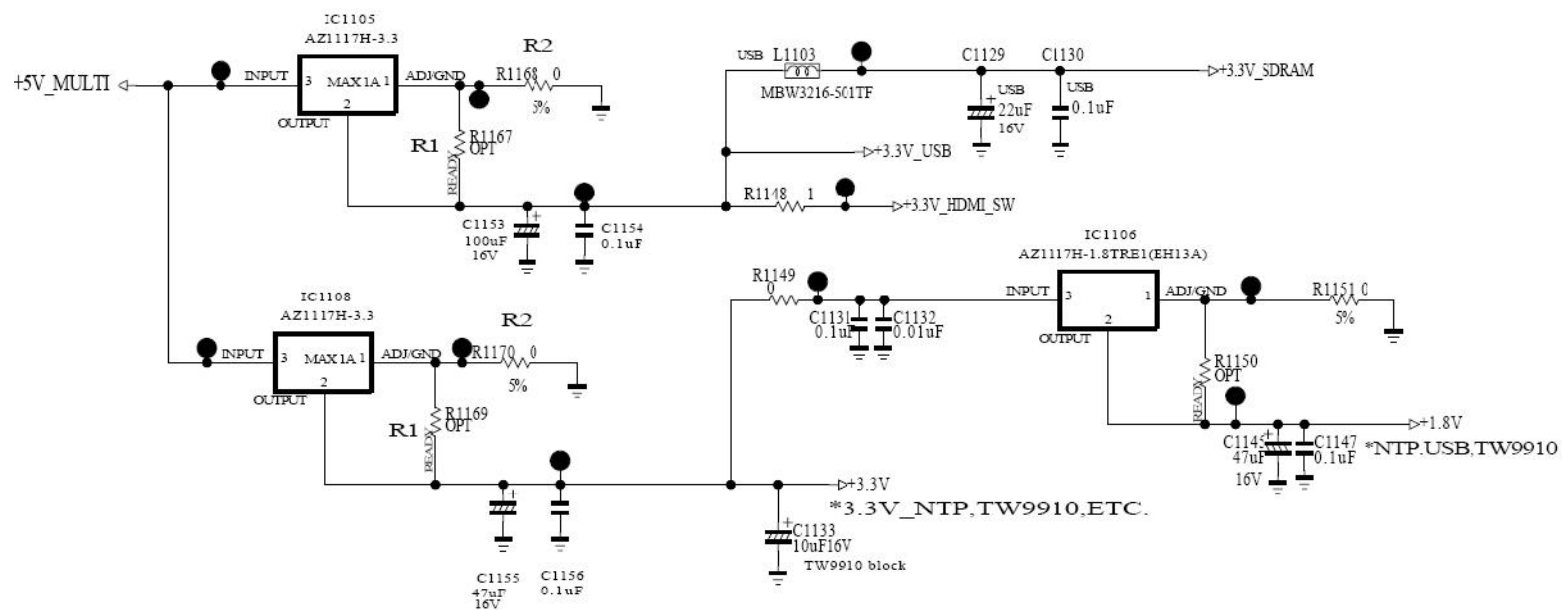
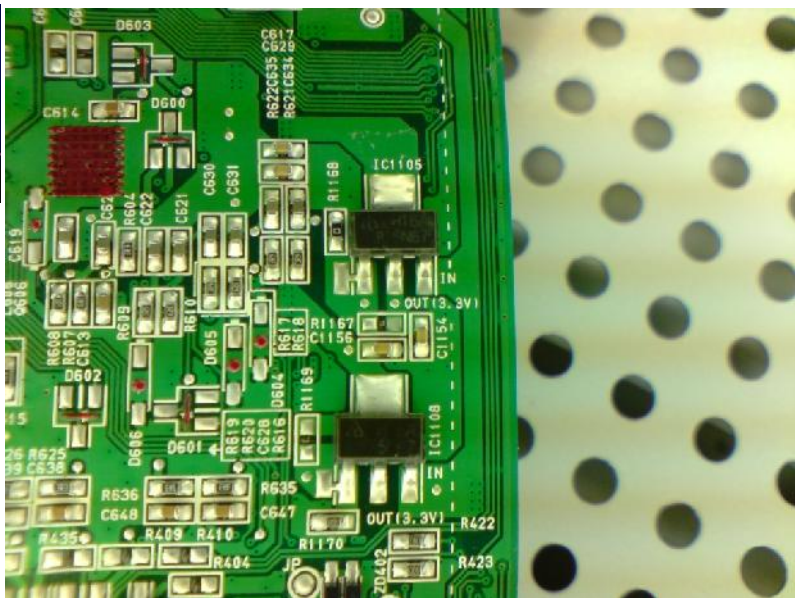
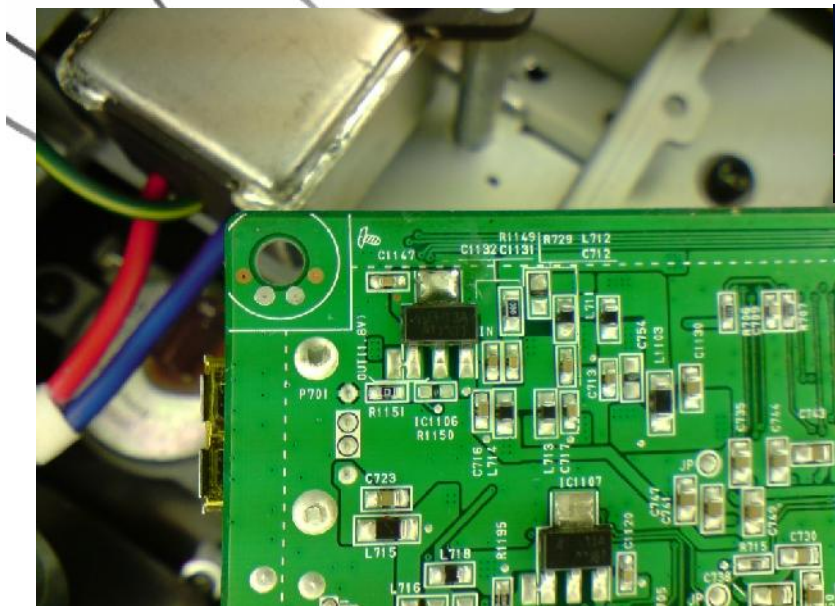
IN

DDR



OUT





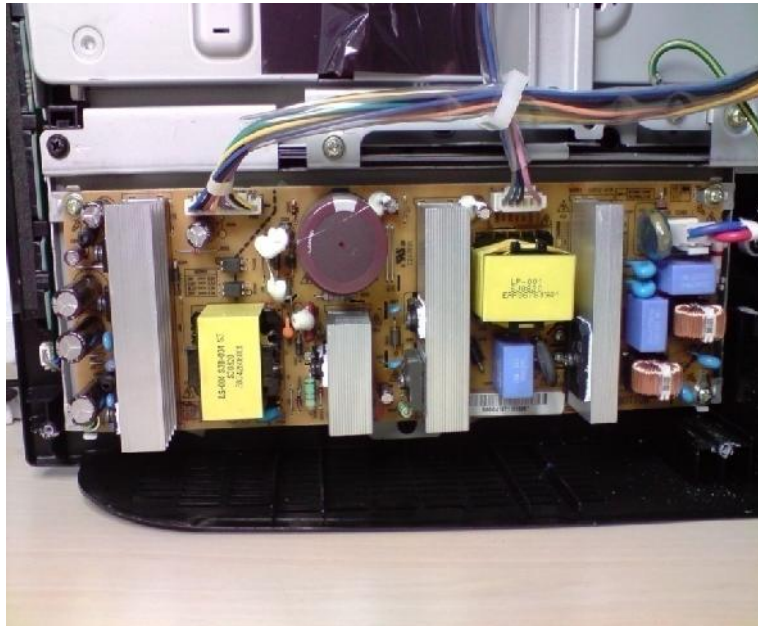
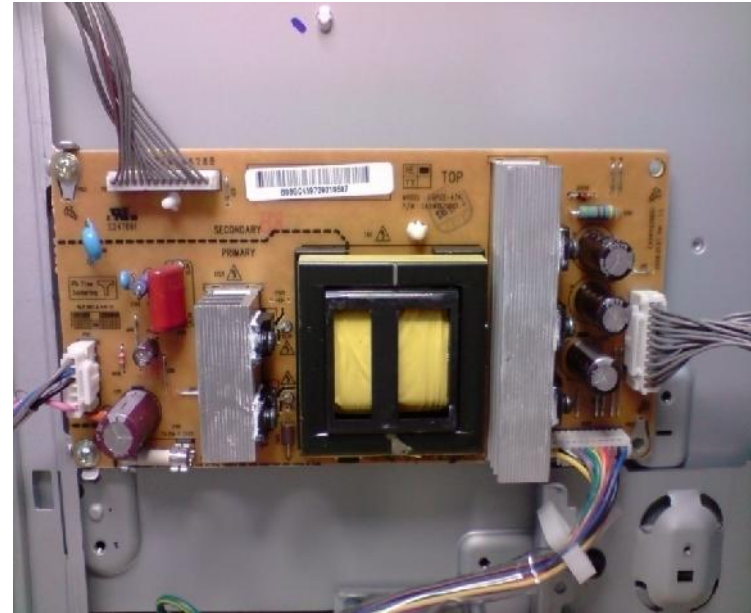
SWITCH 5V->3.3V->1.8V



FUENTE

Fuente

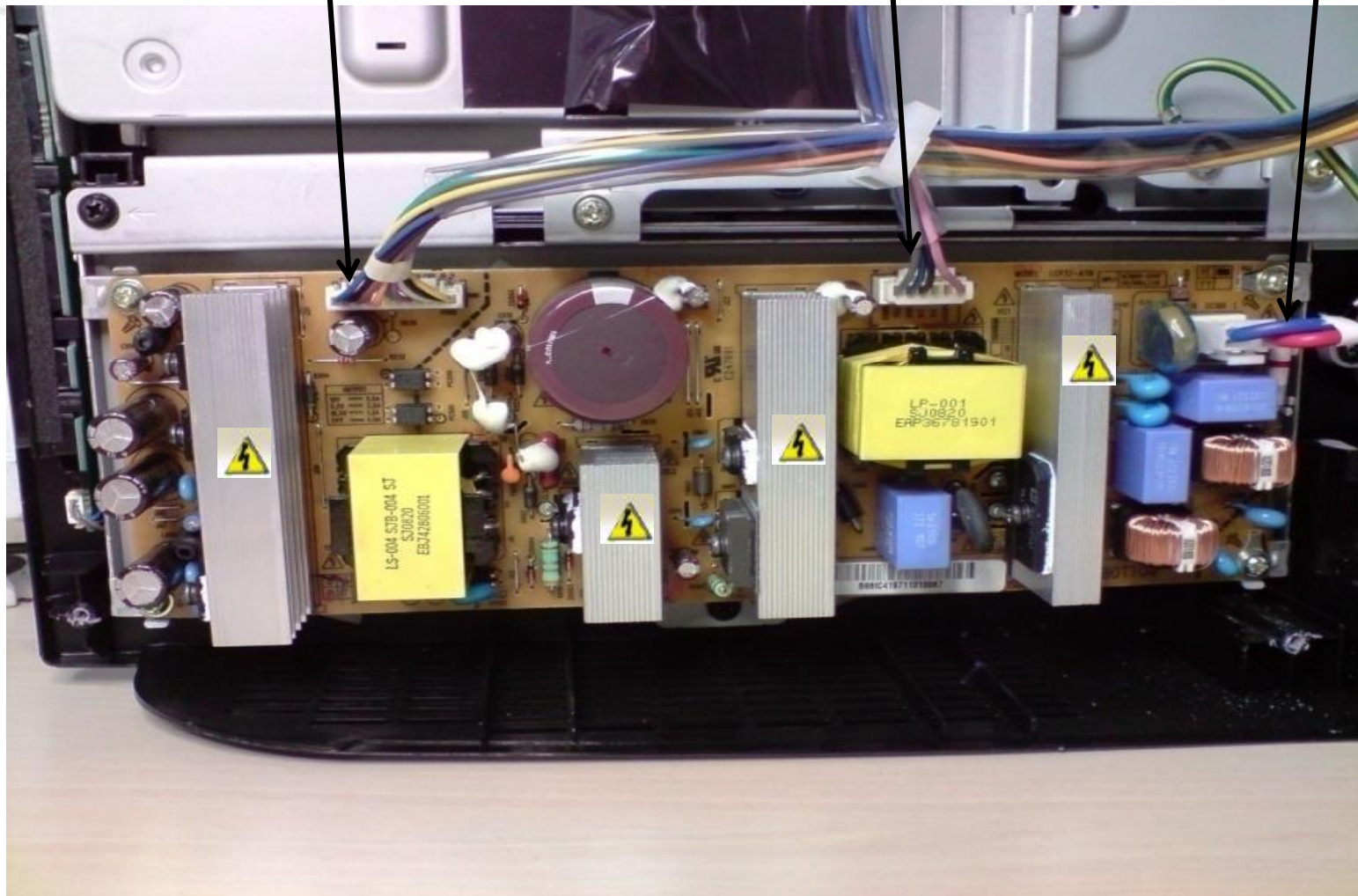
- Entrada: 100 – 240 AC
50/60 Hz
- Salida: 5.2V DC - 3.5 A
12V DC - 2.0 A
16.5 DC - 1.3 A
24V DC - 4.0 A



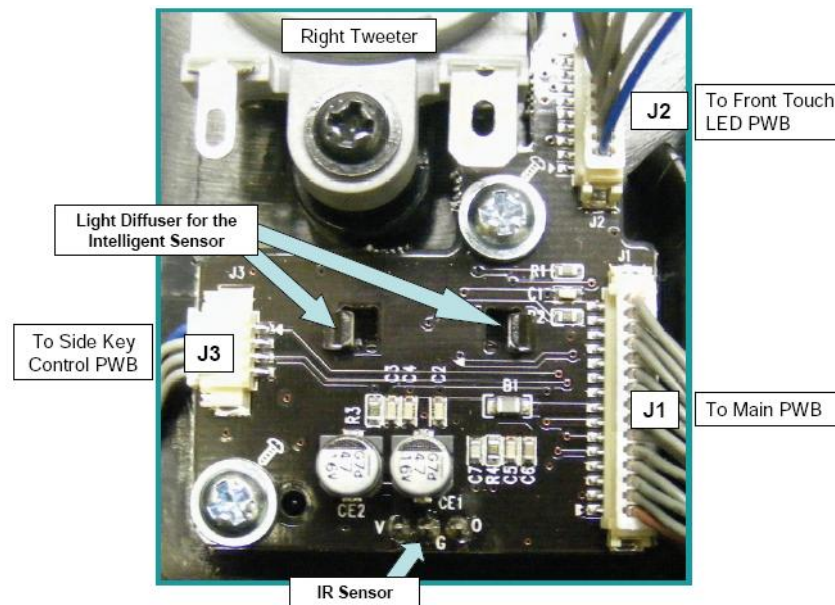
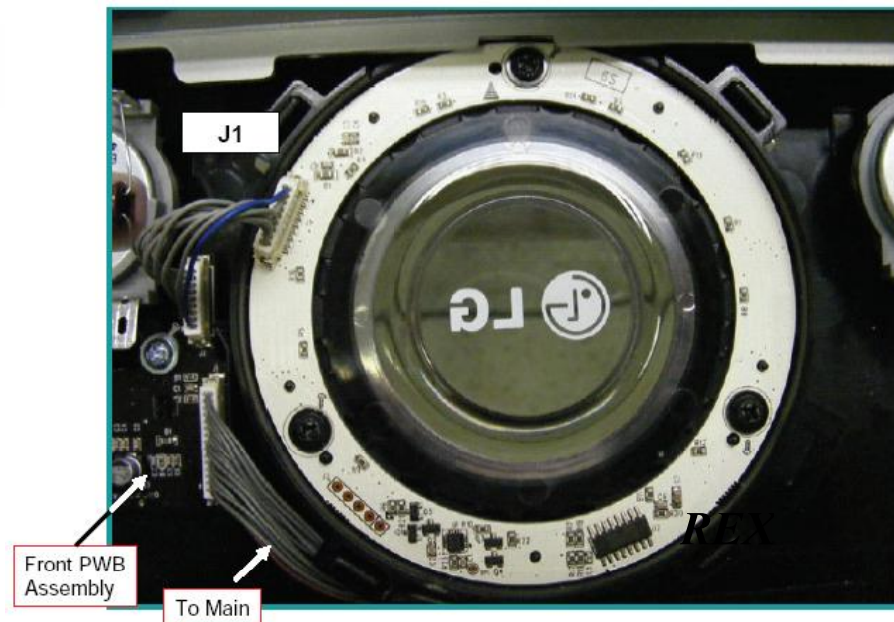
P205 hacia la
Main Board

P601 hacia la
Inversora

F100 5 A/250V



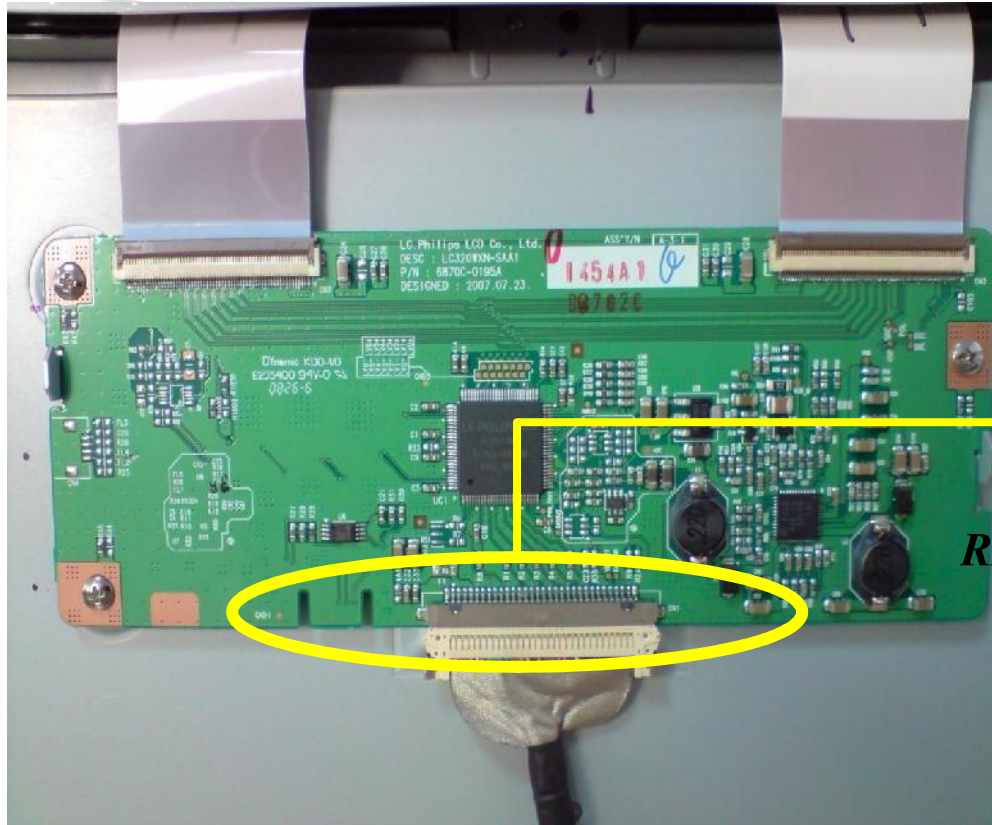
Encendido Inteligente



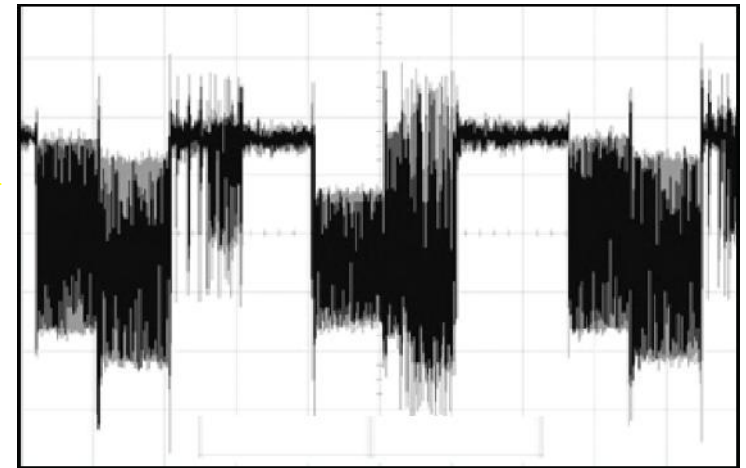


VIDEO

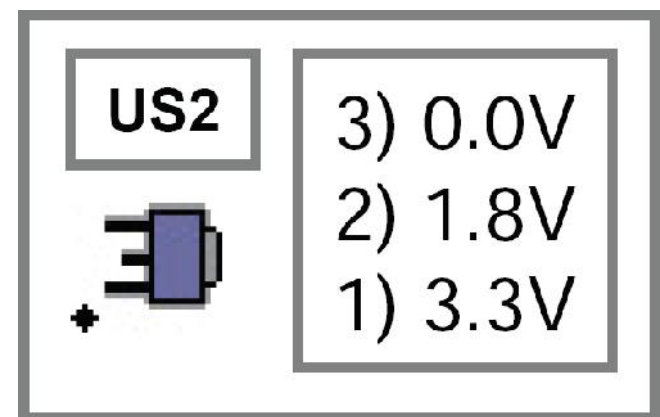
Tarjeta de Video



REX



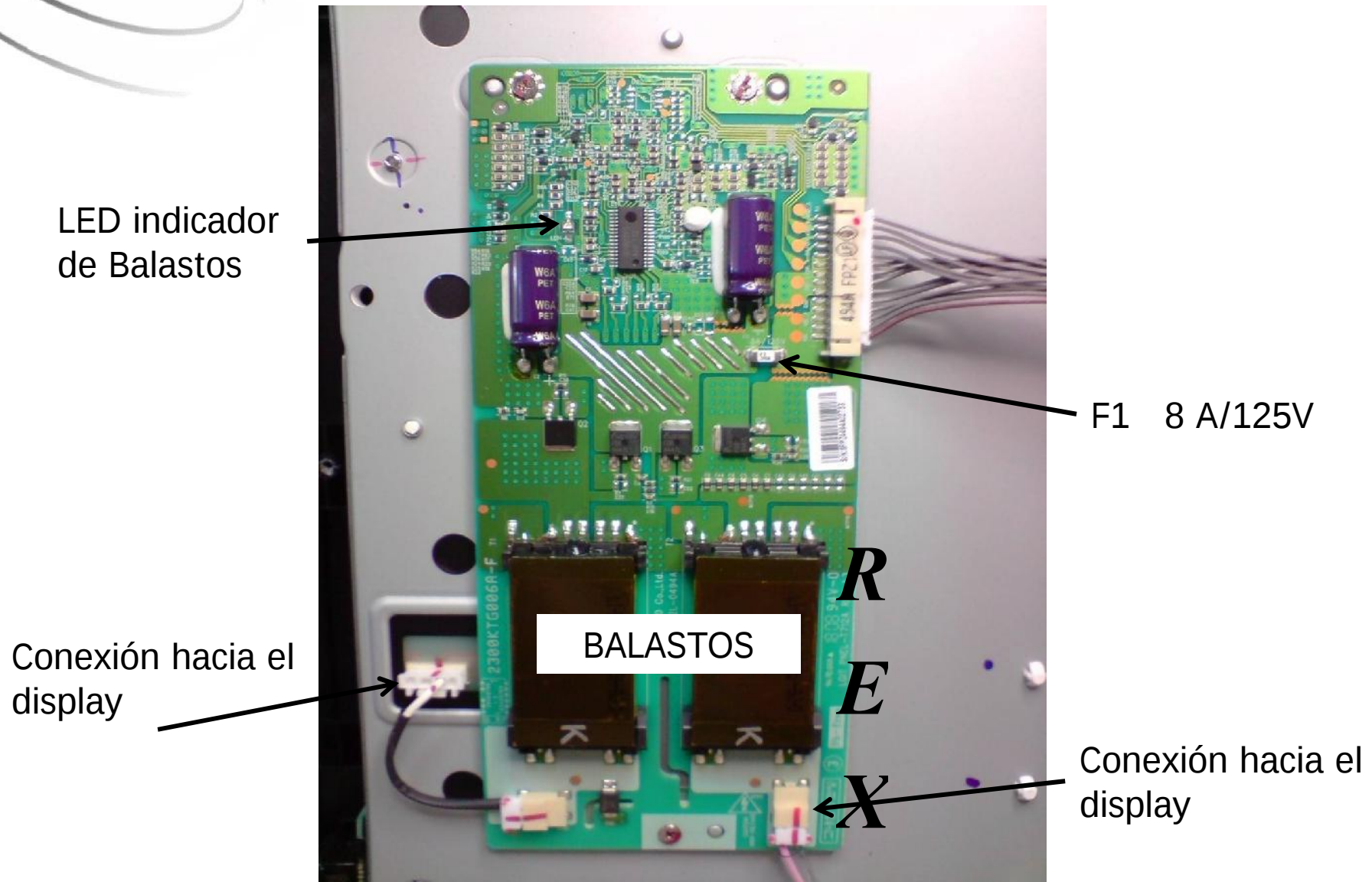
1.3. Tarjeta de Video





INVERSORA

1.4. Inversora



1.4. Inversora

Material Transmisor de Calor

Protege las Salidas

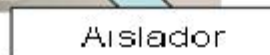
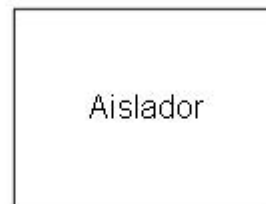
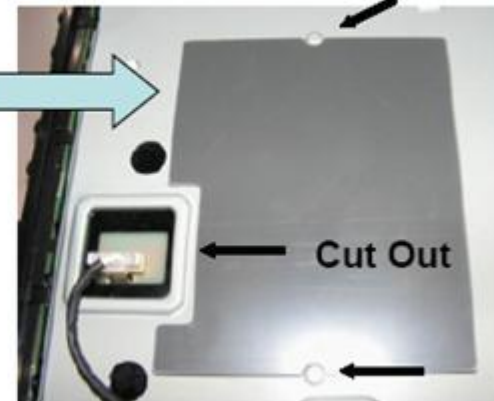
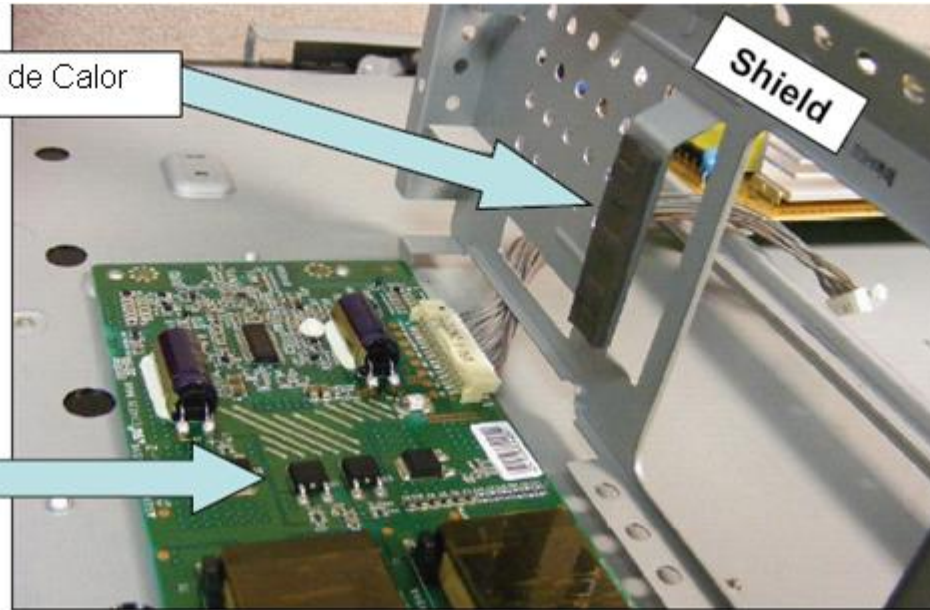
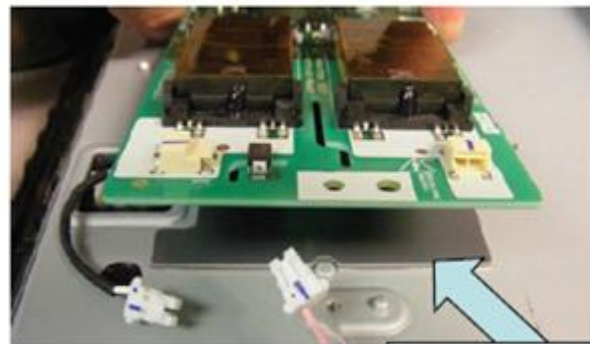
Shield

Alignment Notch

Aislador

Cut Out

Aislador



1.4. Inversora

