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SF-HD850+ZR36976XE/XF

DVD+HDMI COMBO DVD PLAYER

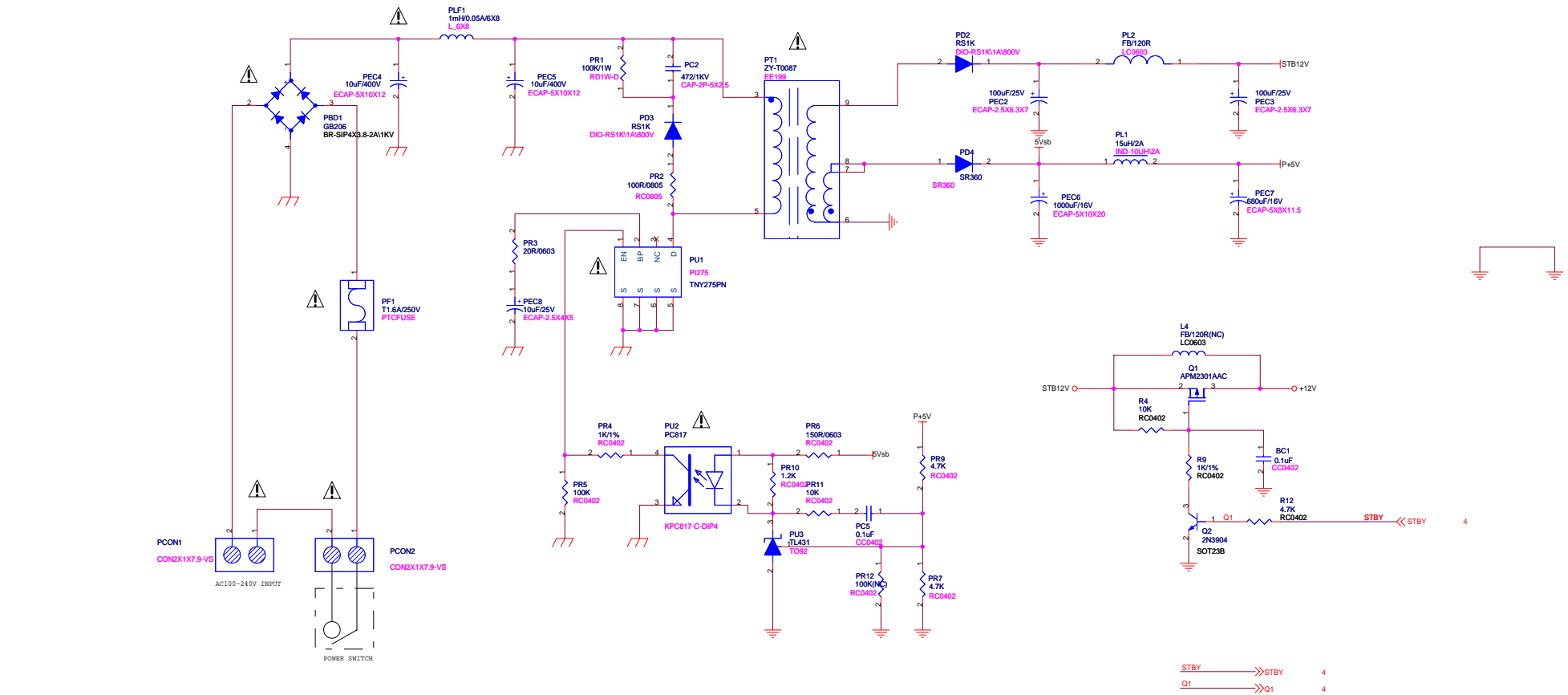
Nota :

Este es el circuito eléctrico de los DVD con HDMI NOBLEX DVH-1556 / 1556A - PHILCO DVH-429 / 429A y SANYO DVH-9309 / 9309A
(Los modelos con sufijo "A" son producidos localmente).
La placa Decodificadora MPEG es la misma para todos los modelos, solo varía el firmware por el control de la placa frente y open screen.

DESIGN:	MODEL: DV3613	TITLE: Cover page
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 1 OF 9	VER: A
SHEN ZHEN MTC MULTIMEDIA CO.,LTD		

- Functions resume
- 1.Cover page
 - 2.Functions resume
 - 3.Power switch
 - 4.System main power
 - 5.Servo and motor driver
 - 6.DSP&SDRAM&FLASH
 - 7.Audio buffer
 - 8.Video buffer
 - 9.Output and input connectors

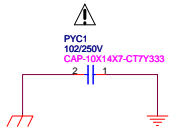
DESIGN:	MODEL: DV3613	TITLE: Functions resume page
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 2 OF 9	VER: A
SHEN ZHEN MTC MULTIMEDIA CO.,LTD		



⚠️ Adjacent to relevant component denoting specific component shall be replaced only by the component specified in the circuit for safety reasons

Note:Damage rquiring service,unplug this produce from the wall outlet and refer servicing to qualified service presonal when replacement parts are required sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics,as the original parts

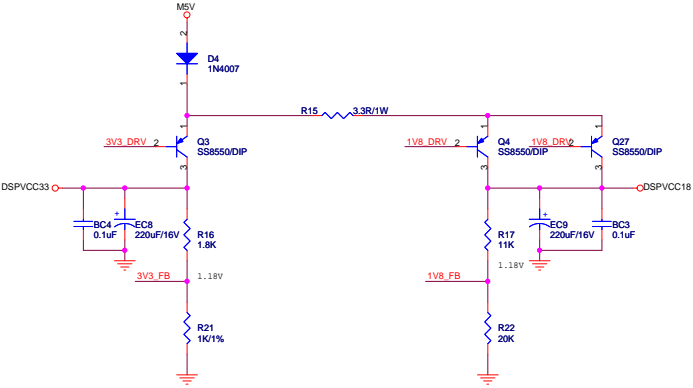
Unauthorized substitution may result in fire,electric shock or other hazards upon completion of any service or repairs this product,Ask the service technician to perform safety check to determinw that product is in proper operatin condition



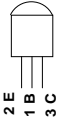
STBY >>STBY 4
Q1 >>Q1 4

DESIGN:	MODEL: DV3613	TITLE: Power switch
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 3 OF 9	VER: A
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Main Power

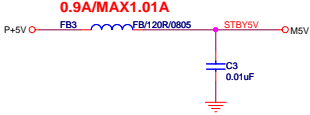
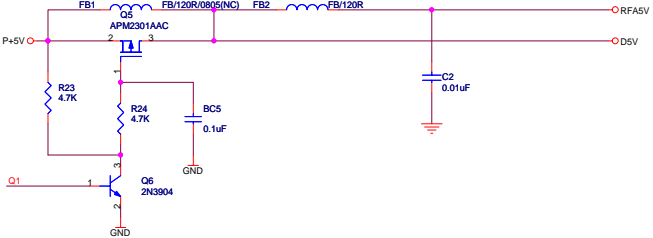
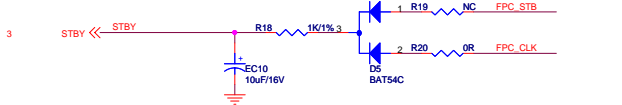
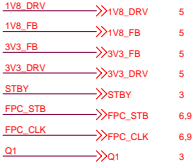


S8050/S8550



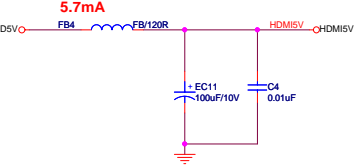
Q210, 211 must have enough large pads for thermal spreading

Motor driver	R21	R16	R17
CD5888(1.18V)	1K 1%	1.8K 1%	11K 1%
AM5888	1.2K 1%	2K 1%	430R 1%

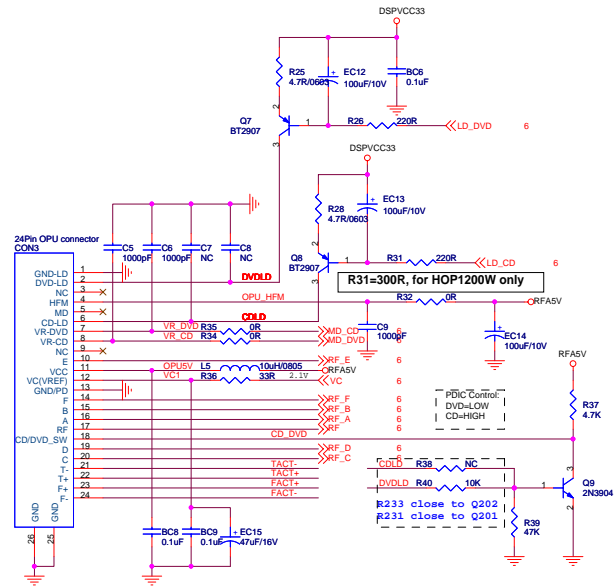


Note:HDMI5V voltage spec :4.8V__5.2V

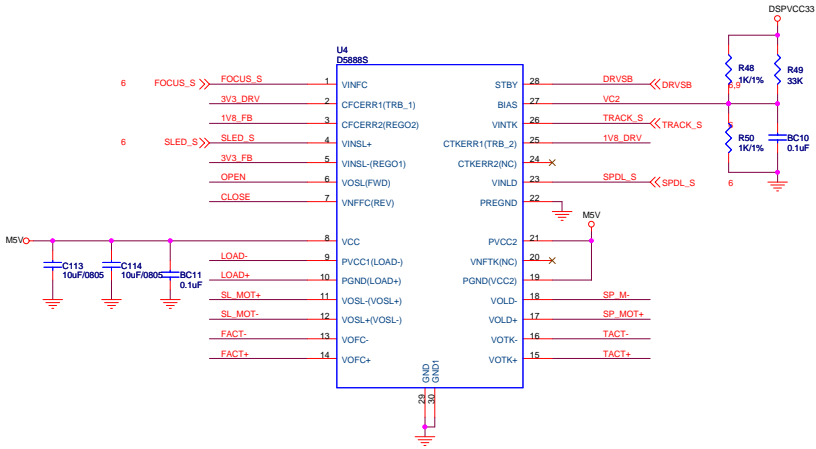
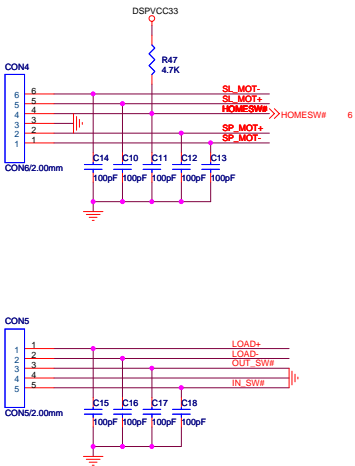
HDMI 5V power



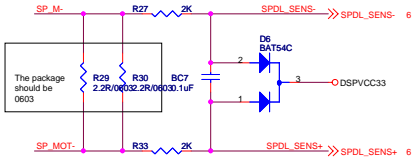
DESIGN:	MODEL: DV3613	TITLE: Main power
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 4 OF 9	VER: A
SHEN ZHEN MTC MULTIMEDIA CO.,LTD		



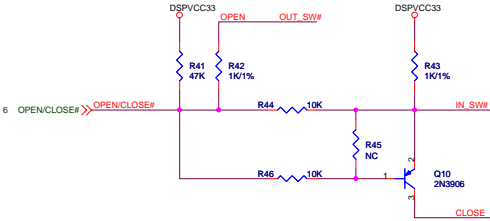
OPU	HD65PS	Other
R27	3.3R	4.7R
R30	3.3R	4.7R



BEMF
Current Type(Default)

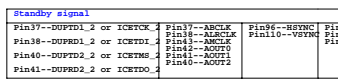
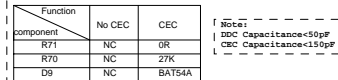
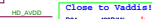
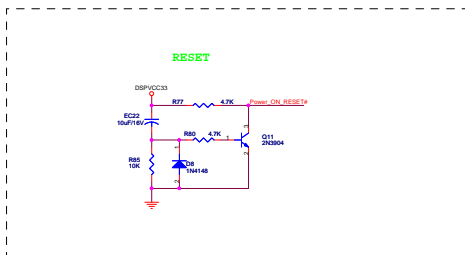
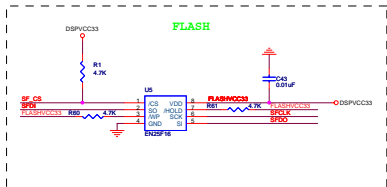


OPEN&CLOSE&IN_SW&OUT_SW circuit

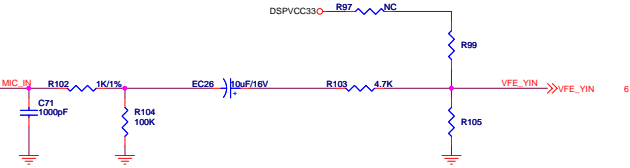
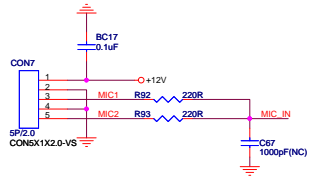


- MD_CD >> MD_CD 6
- MD_DVD >> MD_DVD 6
- OPENCLOSE# >> OPENCLOSE# 6
- HOMESW# >> HOMESW# 6
- 1V8_DRV >> 1V8_DRV 4
- 1V8_FB >> 1V8_FB 4
- 3V3_FB >> 3V3_FB 4
- 3V3_DRV >> 3V3_DRV 4

DESIGN:	MODEL: DV3613	TITLE: Servo and motor driver
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 5 OF 9	VER: A
SHEN ZHEN MTC MULTIMEDIA CO.,LTD		

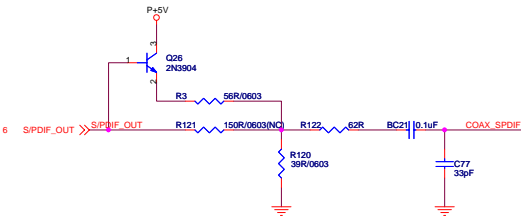
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MIC input

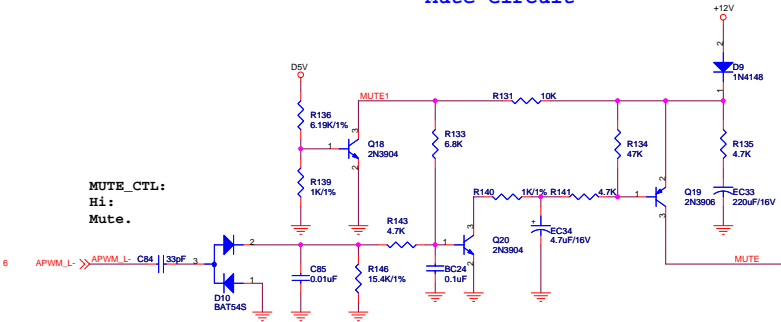


The R355 and R357 should be adjusted according the input voltage.

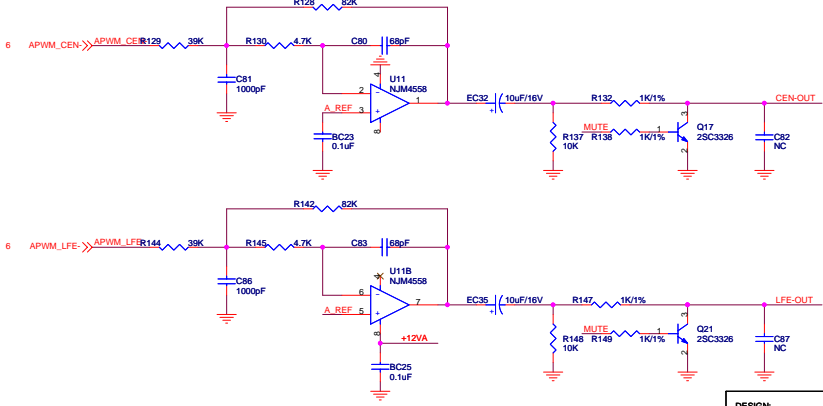
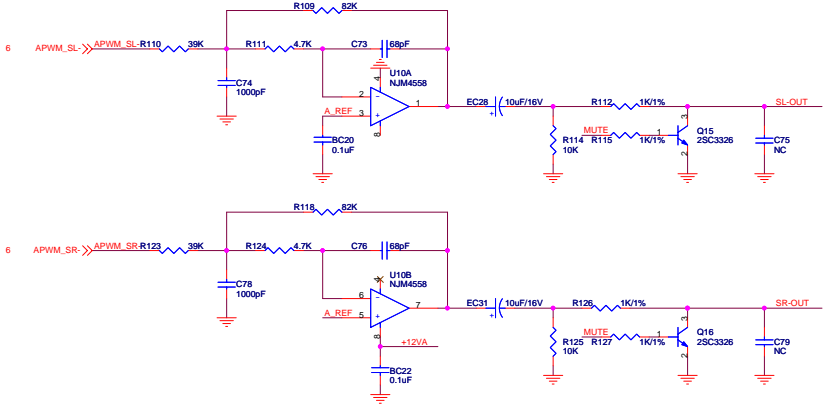
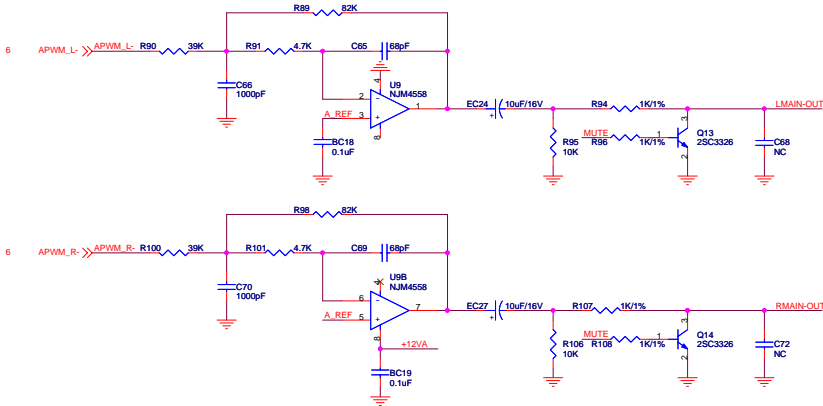
Digital audio output



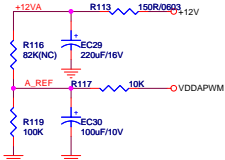
Mute Circuit



Analogue audio output



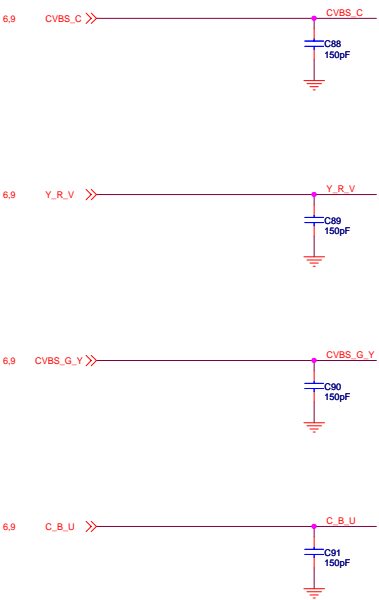
- LMAIN-OUT
- RMAIN-OUT
- SL-OUT
- SR-OUT
- CEN-OUT
- LFE-OUT
- VFE_YIN
- S/PDIF_OUT
- APWM_L-
- APWM_R-
- APWM_SL-
- APWM_SR-
- APWM_CEN-
- APWM_LFE-
- COAX_SPDIF



DESIGN:	MODEL: DV3613	TITLE: Audio buffer
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 7 OF 9	VER: A

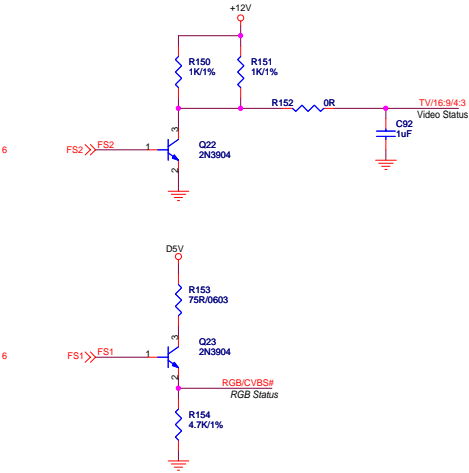
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Analog video output



TV/16:9/4:3	TV/16:9/4:3	9
RGB/CVBS#	RGB/CVBS#	9
FS1	FS1	6
FS2	FS2	6
CVBS_C	CVBS_C	6.9
Y_R_V	Y_R_V	6.9
CVBS_G_Y	CVBS_G_Y	6.9
C_B_U	C_B_U	6.9

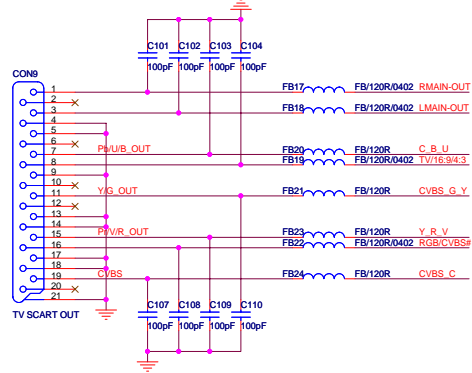
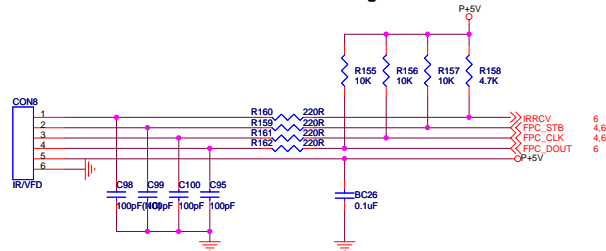
SCART config circuit



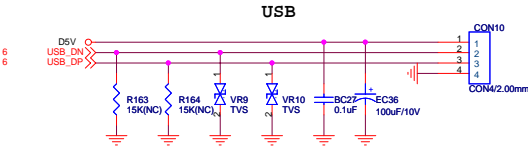
Mode state		RGB Staus	Video Stause
RGB	TV	1---3V	0---2V
	16:9	1---3V	4.5---7V
	4:3	1---3V	9.5---12V
CVBS	TV	0---0.4V	0---2V
	16:9	0---0.4V	4.5---7V
	4:3	0---0.4V	9.5---12V

DESIGN:	MODEL: DV3613	TITLE: Video buffer
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 8 OF 9	VER: A
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VFD drive signal

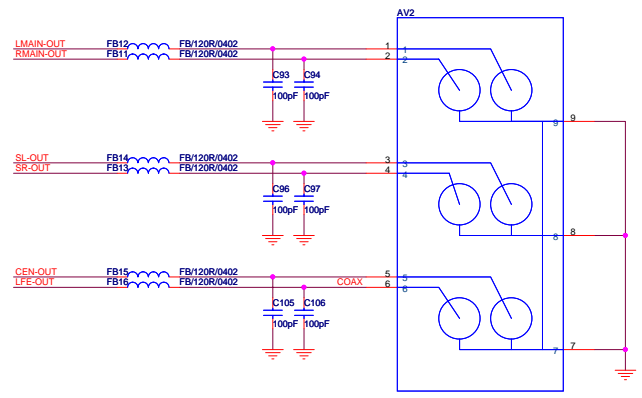
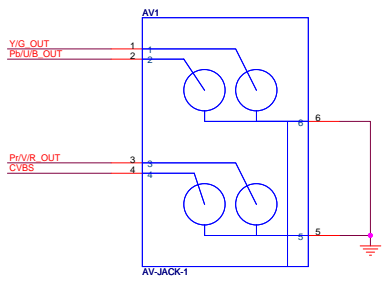
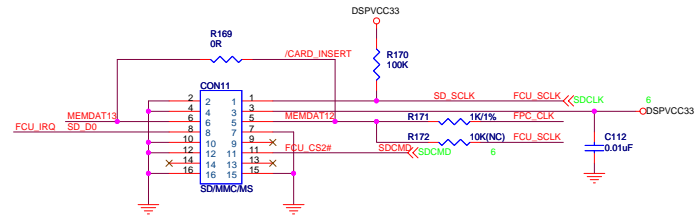
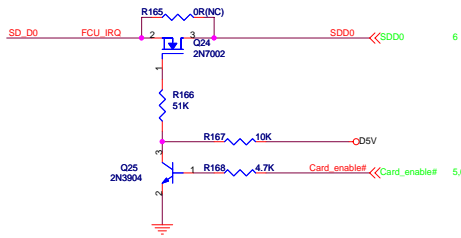


TV SCART OUT

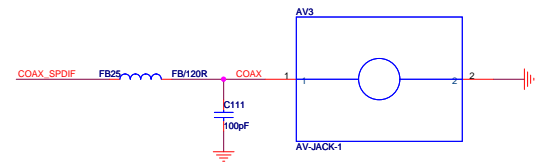


USB

3 in 1 cards



5.1CH OUTPUT PORT



Parts	Save 1 GPOI	Common
CN405	7Pin*2.0	7Pin*2.0
C432	10nF	10nF
R426	NM	1K
R430	10K	10K
R431	4.7K	4.7K
R432	51K	51K
Q102	BT3904	BT3904
Q403	2N7002	2N7002
R141	100R	100R
R143	100R	100R
R156	100R	100R
R433	10K	NM
R434	10K	NM

JRRCV	IRRCV	6	TV/16:9/4:3	8
FPC_STB	FPC_STB	4.6	RGB/CVBS#	8
FPC_CLK	FPC_CLK	4.6		
FPC_DOUT	FPC_DOUT	6		
USB_DN	USB_DN	6	LMAIN-OUT	7
USB_DP	USB_DP	6	RMAIN-OUT	7
SDCLK	SDCLK	6	SL-OUT	7
Card_enable#	Card_enable#	5.6	SR-OUT	7
SDCMD	SDCMD	6	CEN-OUT	7
SDD0	SDD0	6	LFE-OUT	7
CVBS_C	CVBS_C	6.8	COAX_SPDIF	7
Y_R_V	Y_R_V	6.8		
CVBS_G_Y	CVBS_G_Y	6.8		
C_B_U	C_B_U	6.8		

DESIGN:	MODEL: DV3613	TITLE: output and input connectors
CHECKED:	PART NO:	DWG NO: DV3613-YL01-01
APPRD:	SHEET: 9 OF 9	VER: A

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