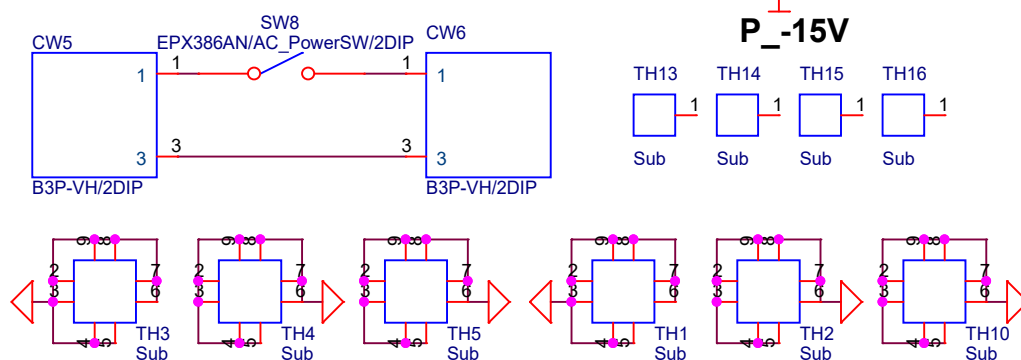
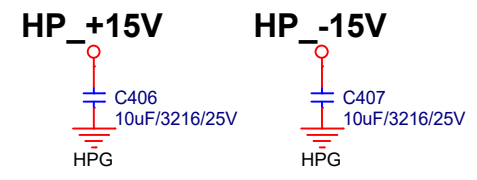
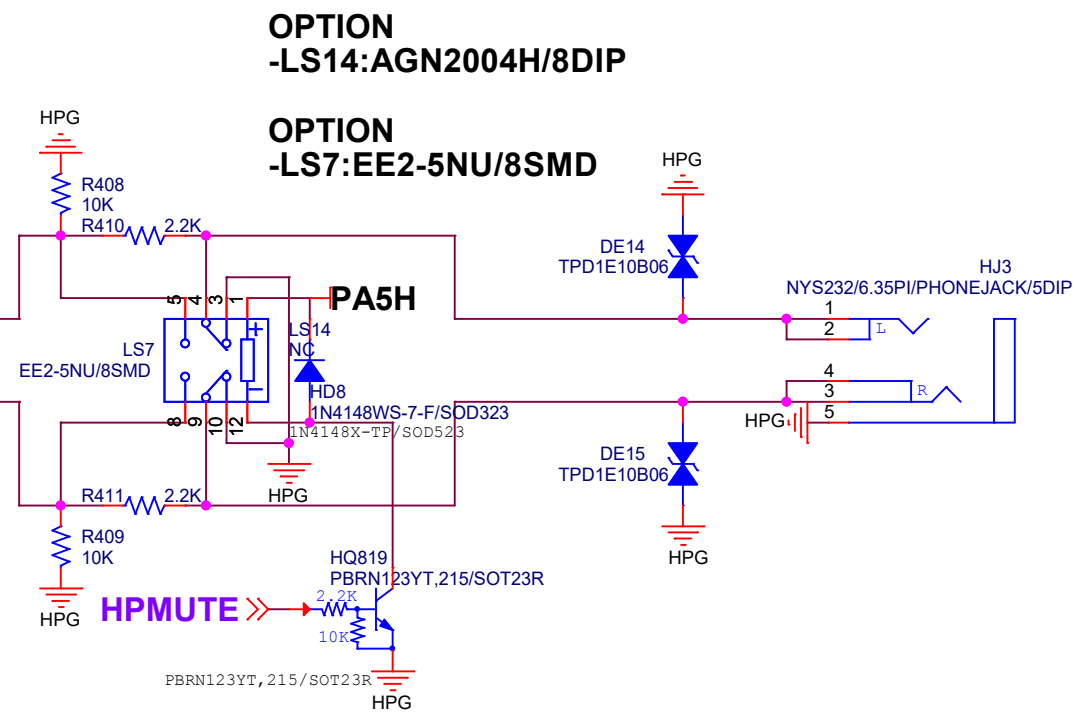
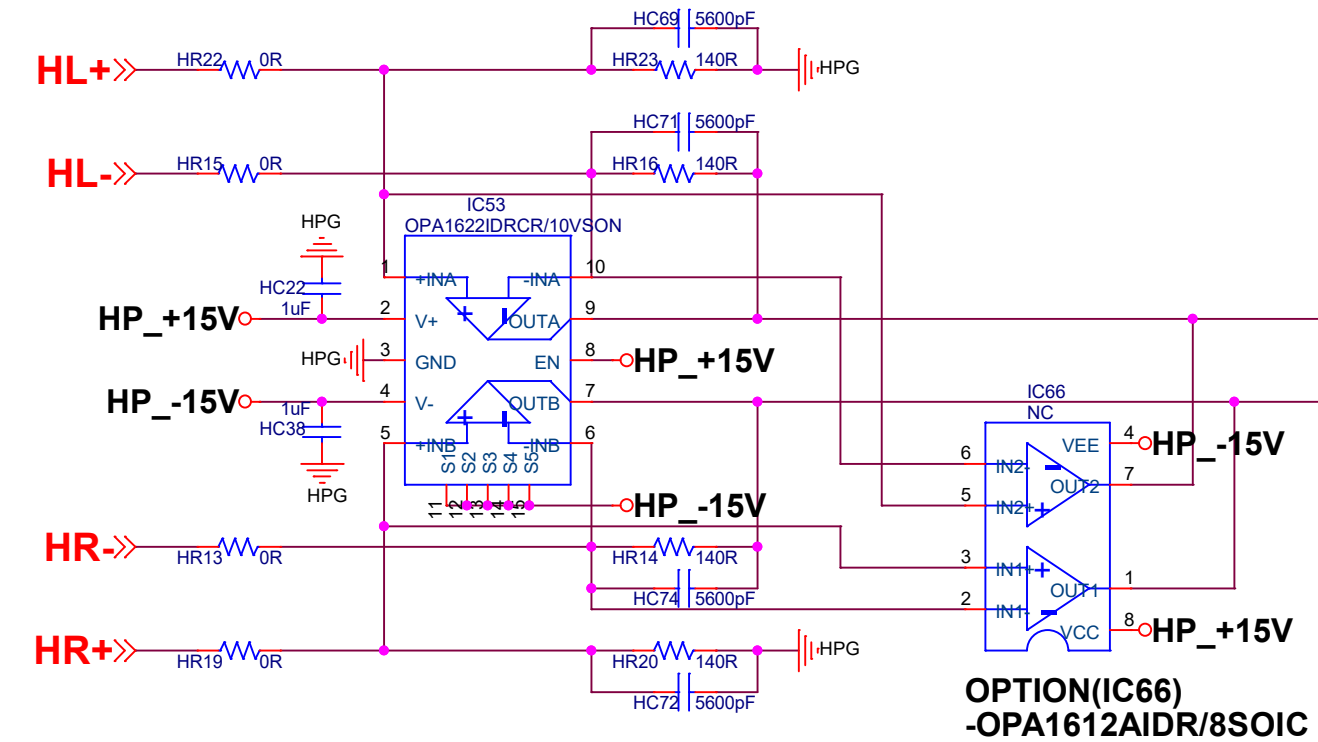


**-> (P_D5V(OPT) -> (VA3 (AK4118)
(VD3 (AK4118)
(VI3(COAX&AES/EBU)
(I2S_3V (Logic)
(D3.3V (USB, 3.3V)
(D1.8V (USB, 1.8V)**

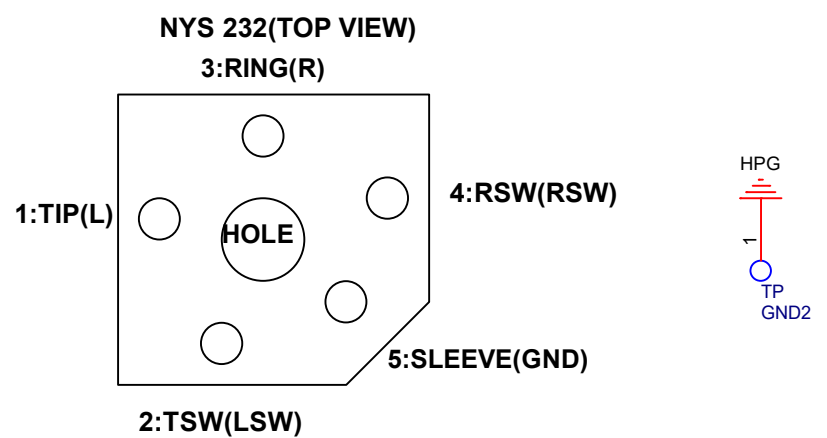
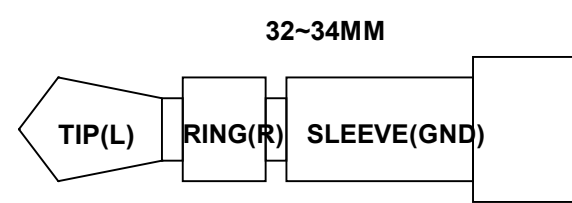
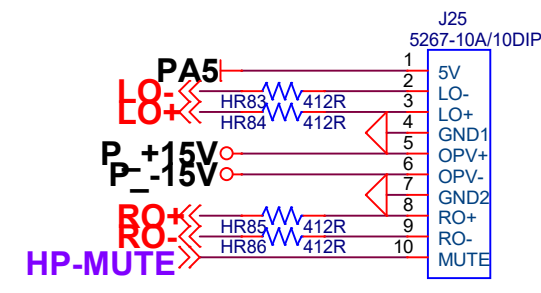
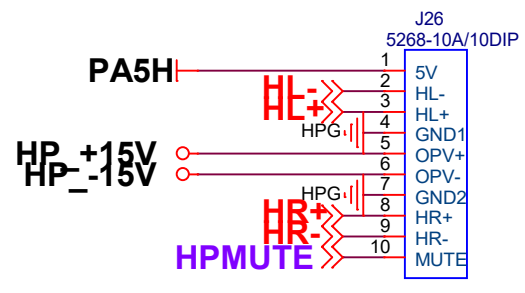
TPS7A3001 (Vo=-1.18V~-33V/Io (max)=-200mA)
Vout=1.176V ((1+ (R1/R2))
R2<242.4kohm, PSRR=72dB (100Hz) />=55dB (10~700k)
Output Noise=14uV (20~20k) /15.1uV (10~100k)



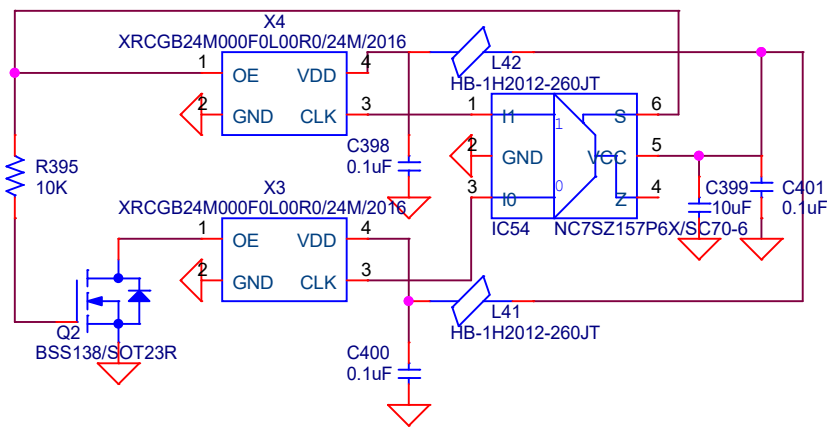
Title			
0. MainPower			
Size B	Document Number <Doc>		Rev 0V1
Date:	Wednesday, September 06, 2017	Sheet	1 of 7



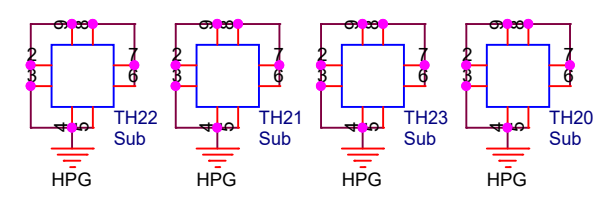
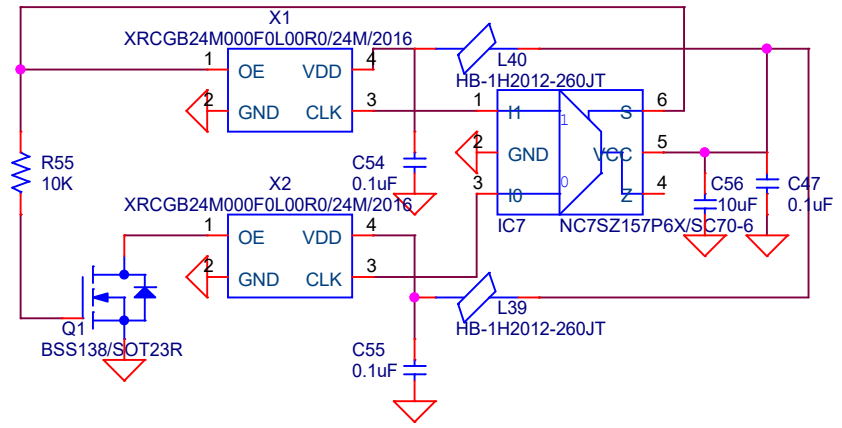
U24(MCU)_17PIN_PB2(HP_MUTE)
POWER_ON-OFF_POP/HP-USE
-L(MUTE)
-H(UNMUTE)



DAC_OSC(DUMMY1)



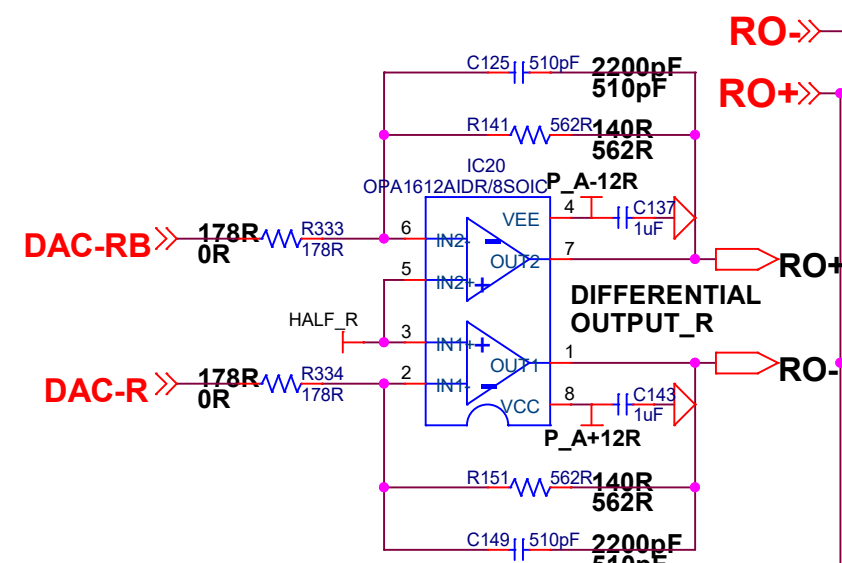
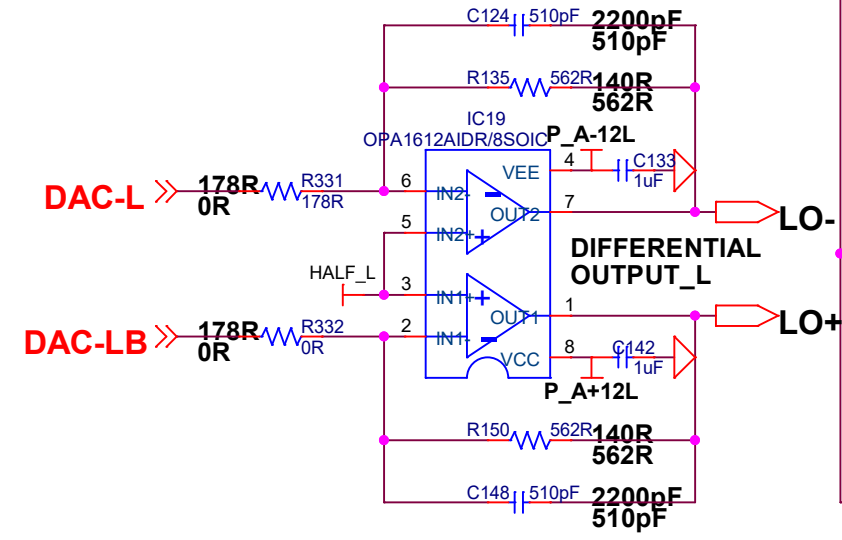
DAC_OSC(DUMMY2)



Title <Title>				
Size B	Document Number <Doc>			Rev <RevCo
Date:	Wednesday, September 06, 2017		Sheet	1 of 1

DAC Out

DAC_R=25.25ohm(202ohm//8ea,+14%)
0.924xAVCC(2.5V)=1.155V

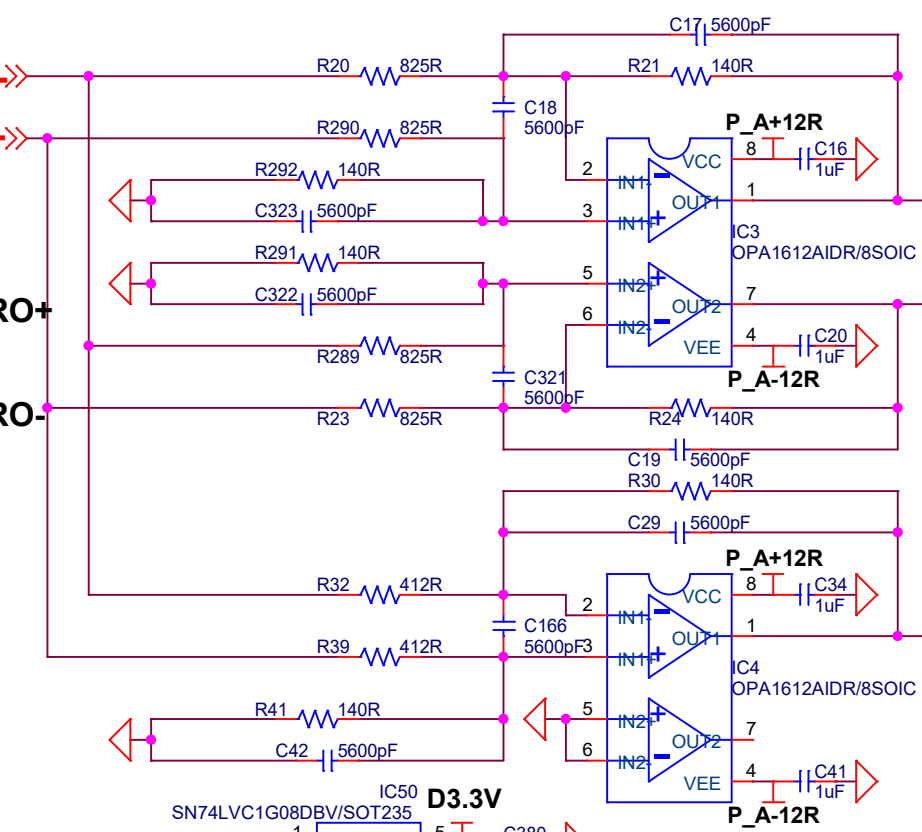
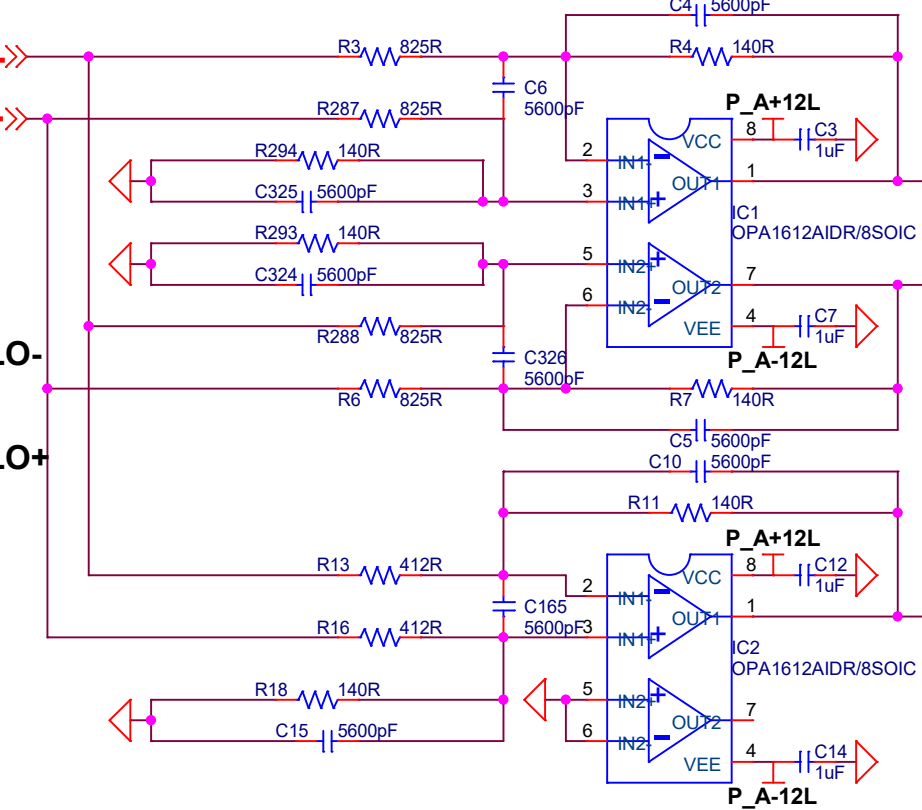


SA9127(IC36)_2PIN(GPIO1(UAUDIO_EN))
-H(USB_AUDIO_OUT-ON)
-L(USB_AUDIO_OUT-OFF)

U24(MCU)_17PIN_PB2(I2S_Sel)
-H(USB-SA9127)
-L(SPDIF-AK4118)

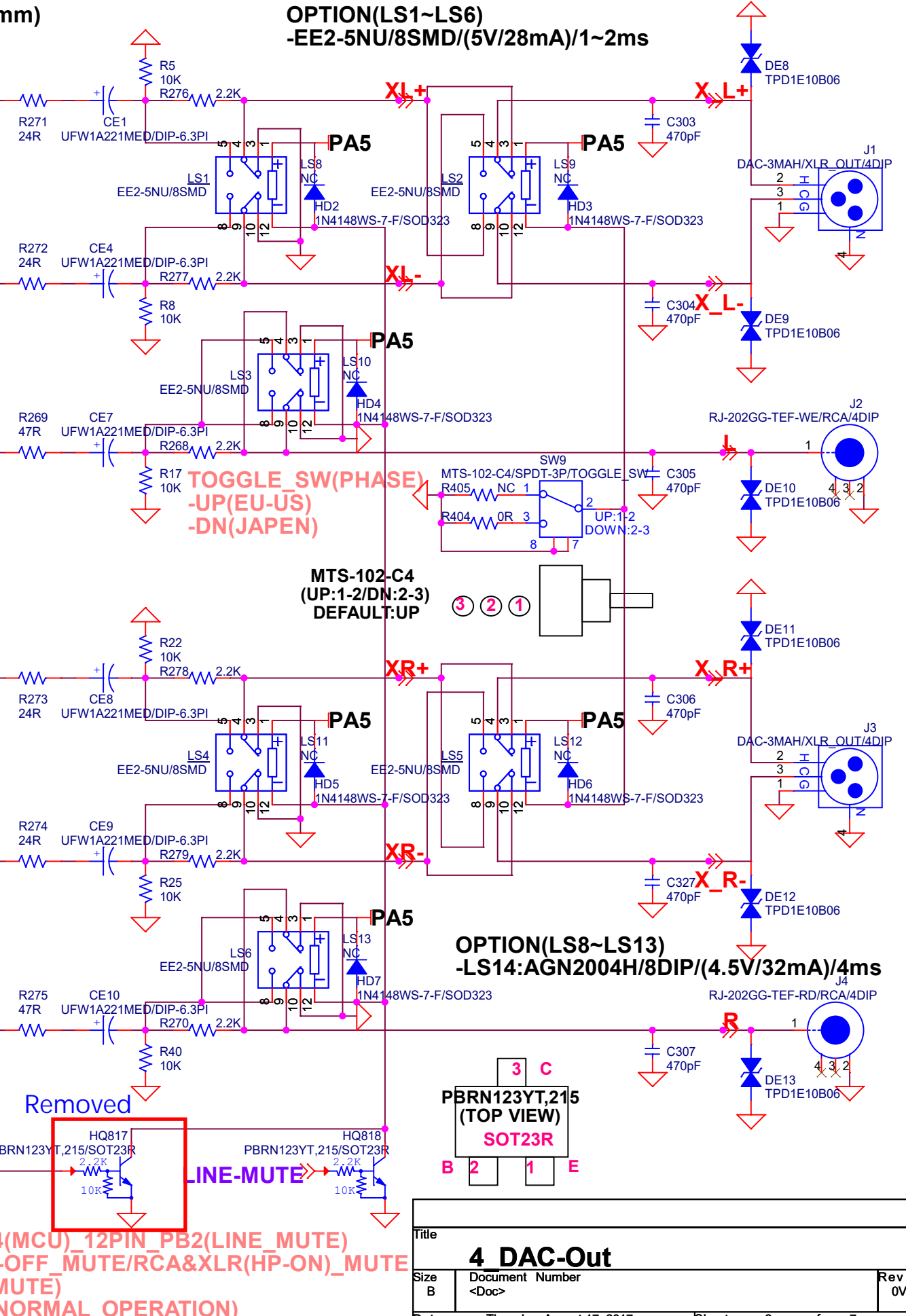
USB_AUDIO-ON
-H(USB_AUDIO_ON_When_USB_mode)
-L(USB_AUDIO_OFF_When_USB_mode)

UFW1A221MED=220uF/10V(6.3*11mm-pitch2.5mm)



AND-GATE
SN74LVC1G08DBV/SOT235

USB_AUDIO-ON

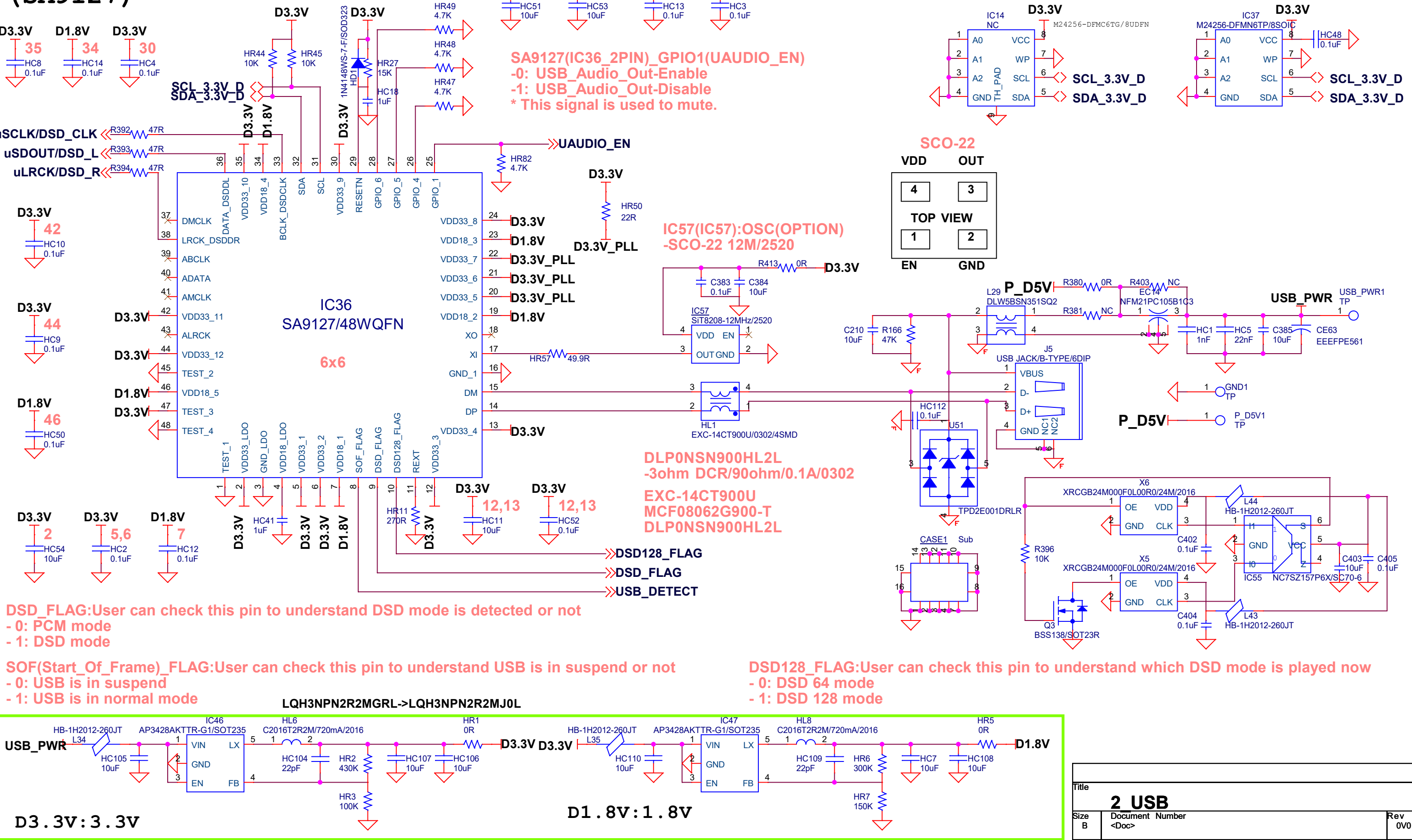


U24(MCU)_12PIN_PB2(LINE_MUTE)
ON-OFF_MUTE/RCA&XLR(HP-ON)_MUTE
-L(MUTE)
-H(NORMAL OPERATION)

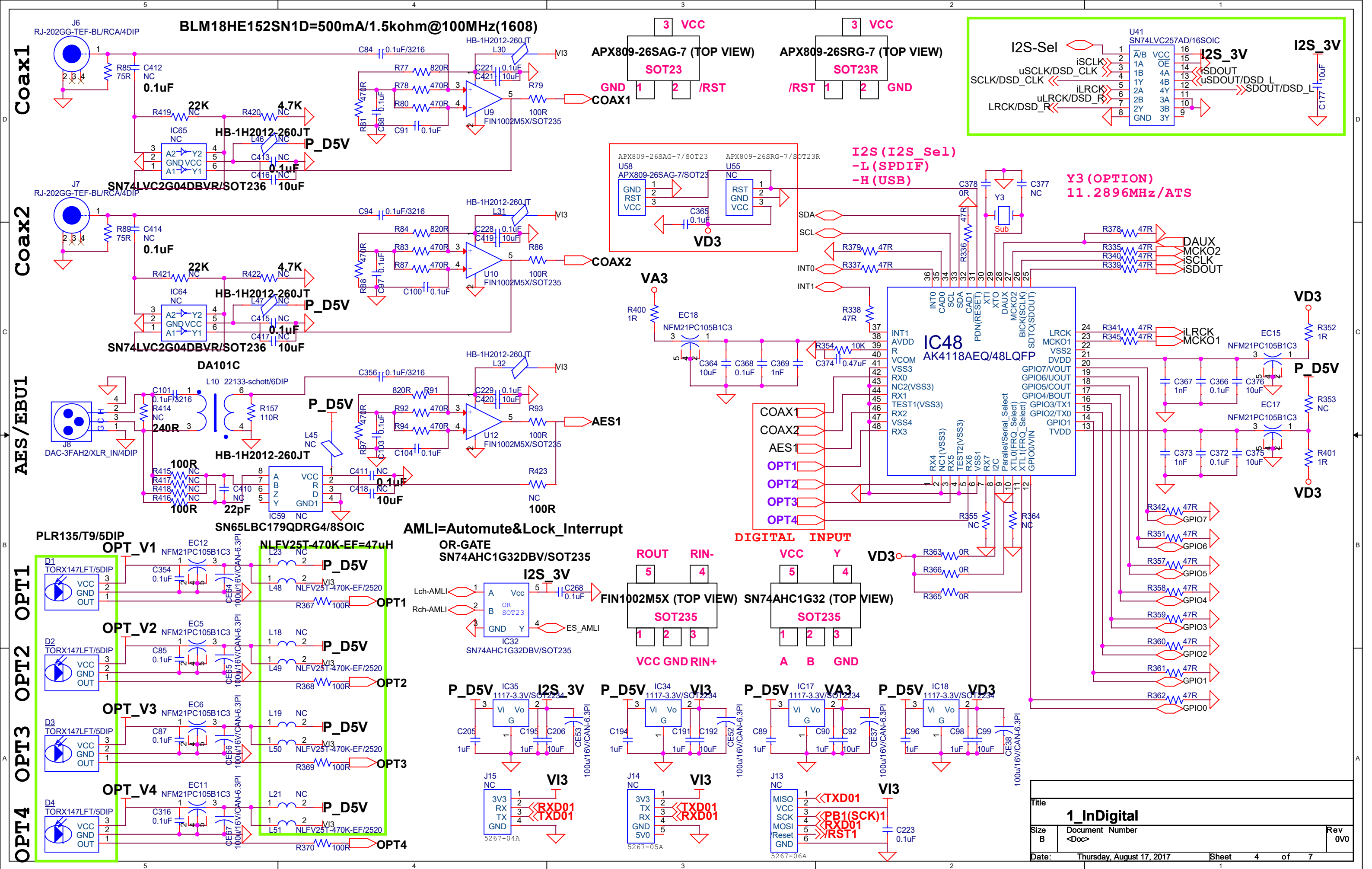
Title		
4 DAC-Out		
Size	Document Number	Rev
B	<Doc>	0V0
Date:	Thursday, August 17, 2017	Sheet 2 of 7

Calyx_PaT_HD
(SA9127)

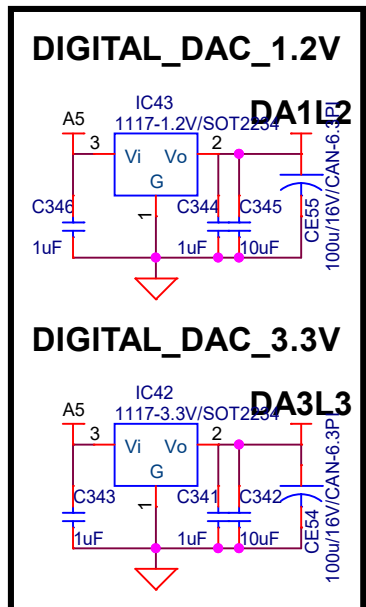
2016.01.28



Title			
2 USB			
Size B	Document Number <Doc>		Rev 0V0
Date:	Thursday, August 17, 2017	Sheet	3 of 7



Title		
1_InDigital		
Size	Document Number	Rev
B	<Doc>	0V0
Date:	Thursday, August 17, 2017	Sheet 4 of 7

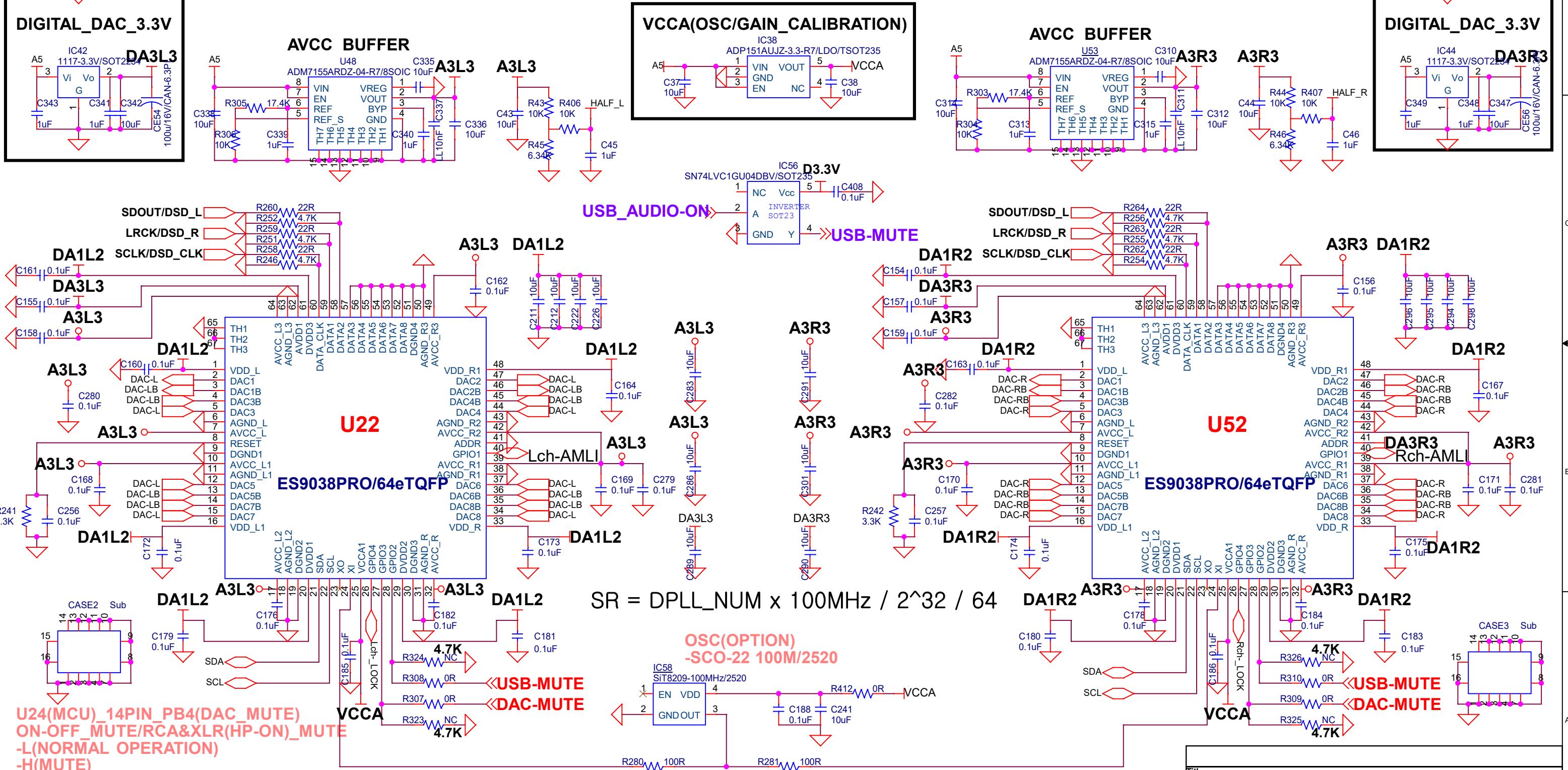
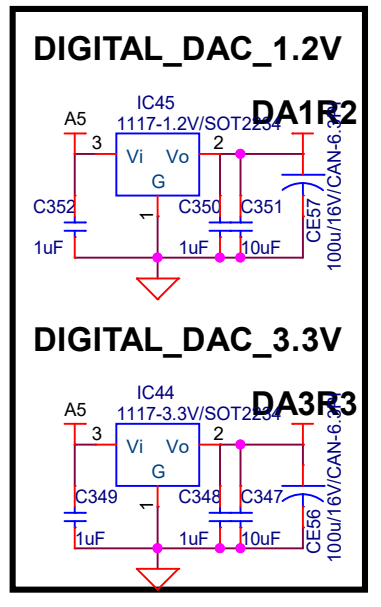


ADM7155 (Vo=1.2V~3.4V/Io(max)=600mA)
Vout=1.2V*[1+(R(ref))/R(ref_s)]
1kohm<R(ref_s)<200kohm
R(ref_s)=R304&R306,R(ref)=R303&R305

R(ref)=R(Between_PIN6_and_PIN5)
R(ref_s)=R(Between_PIN5_and_GND)

Common:R304&R306=10K
Vo=3.3V(3.288V),R303&R305=17.4K
Vo=3.0V(3.000V),R303&R305=15K
Vo=2.7V(2.688V),R303&R305=10.7K
Vo=2.5V(2.484V),R303&R305=12.4K
Vo=2.2V(2.190V),R303&R305=8.25K
Vo=1.8V(1.799V),R303&R305=4.99K
Vo=1.5V(1.499V),R303&R305=2.49K

UWX0J331MCL1GB-330uF/6.3V/8PI/5.5mm

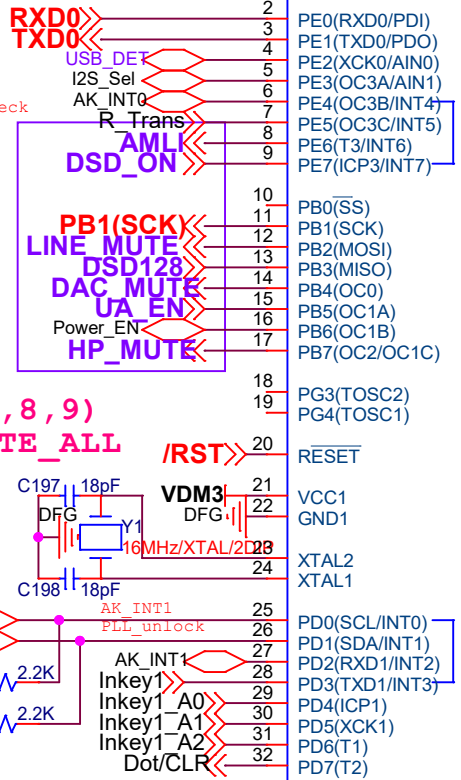


Title		
3 DAC		
Size B	Document Number <Doc>	Rev 0V0
Date:	Wednesday, September 06, 2017	Sheet 5 of 7

MCU

VDM3 ATMEGA128A-AU/16MHz/64TQFP

U24



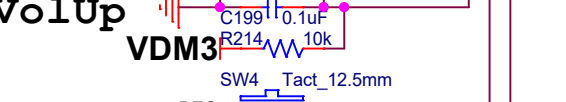
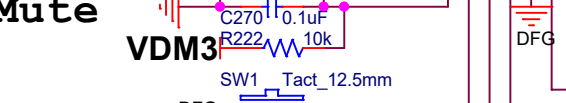
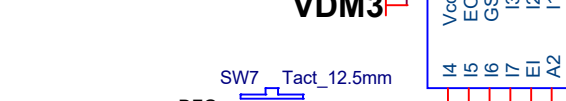
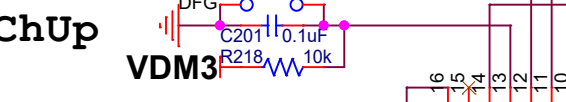
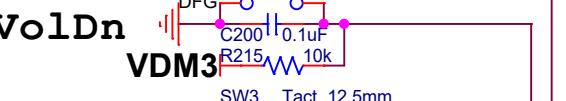
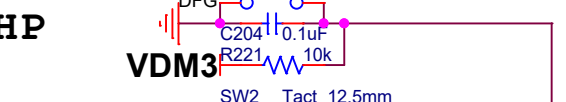
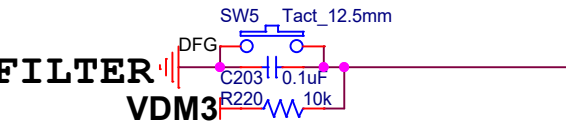
I2S(I2S_Sel)
-L (SPDIF-AK4118)
-H (USB-SA9127)

AMLI
=Automute Lock Interrupt
-ES9038#REG9(4'd4)

LINE&DAC MUTE(ES9038#REG7,8,9)
ES9038 GPIO3-4 SETTING=MUTE_ALL
-ES9038#REG9(4'd10)

DSD_FLAG(DSD_ON)
-ES9038#REG1
-H (USB_OUTPUT=DSD)
-L (USB_OUTPUT=I2S)

Power_EN(EN_P)
: Interface, USB, DAC

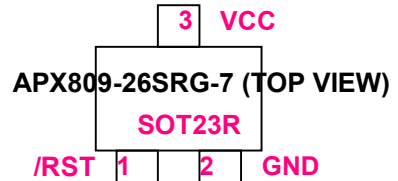
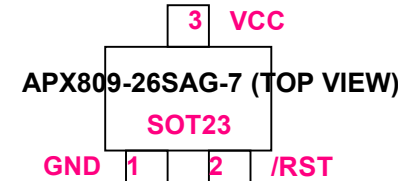
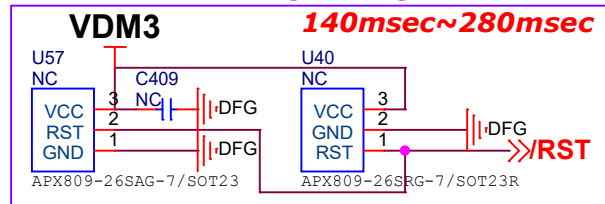


CAT24C16WI-EEPROM 16KBIT 400KHZ 8SOIC

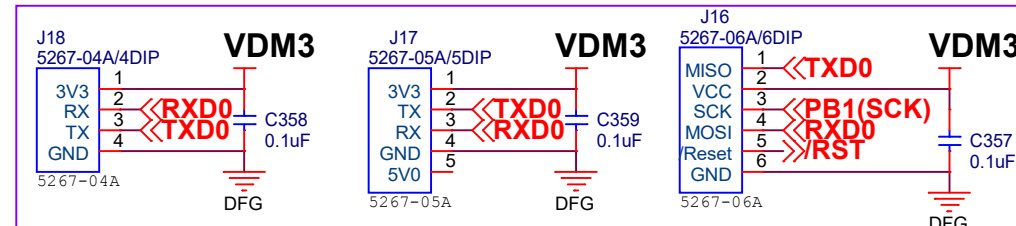
SA9127(IC36_2PIN)_GPIO1(UAUDIO_EN)
-H(USB_AUDIO_OUT-ON)
-L(USB_AUDIO_OUT-OFF)
* This signal is used to mute.
SA9127(IC36_8PIN)_SOF_FLAG(USB_DETECT)
-H(USB_DETECT)
-L(USB_UNDETECT)

OPTION

140msec~280msec

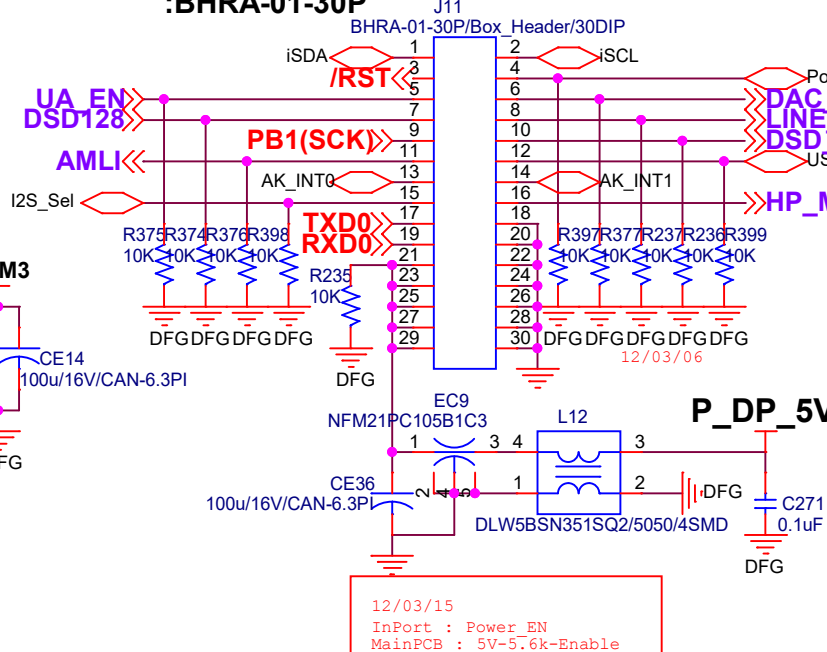


AT24C16BN-SH-T/EEPROM 16KBIT 400KHZ 8SOIC

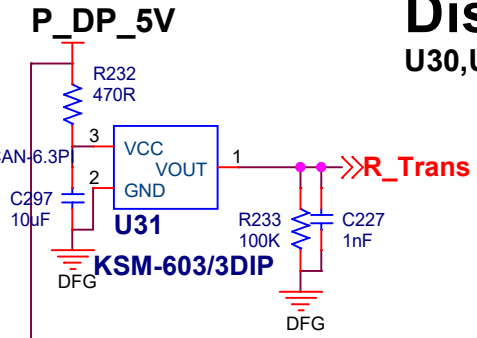
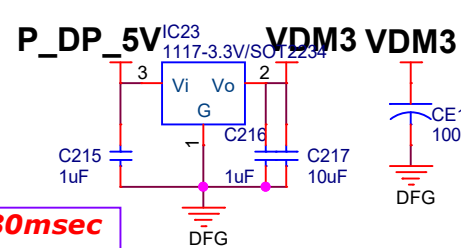


AMLI=Automute&Lock Interrupt
UA_EN(UOUT-EN)=USB_AUDIO_OUT_ENABLE

Front
Box Header 2.54MM_30P_Right_Angle
:BHRA-01-30P

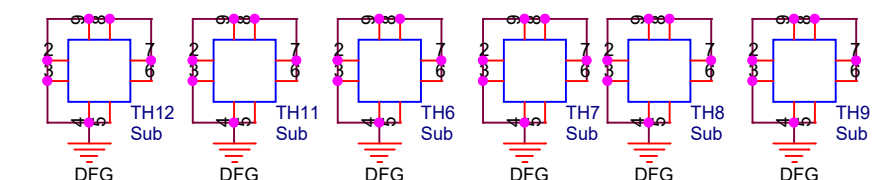
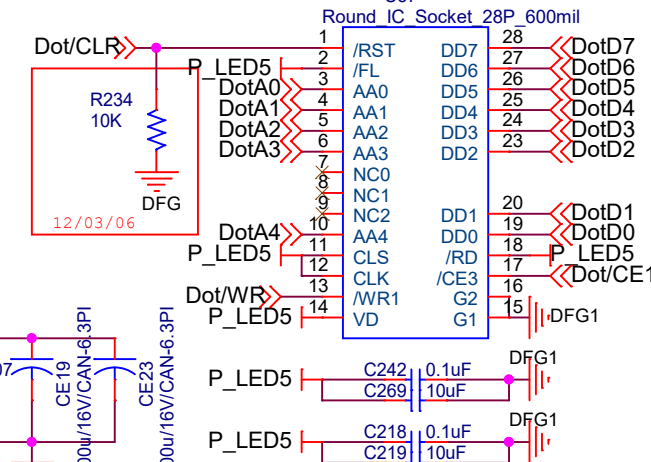


COMMON_MODE_CHOKE=DLW5BTM501SQ2L



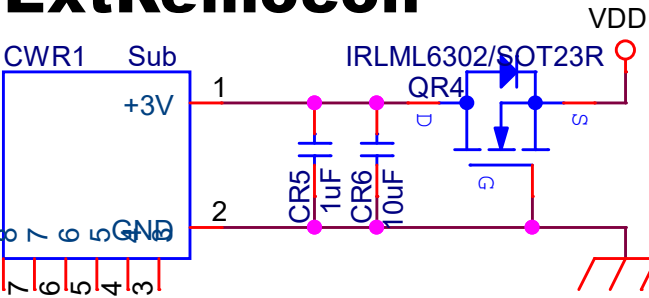
Display

U30,U37:HDSP-2500/28DIP

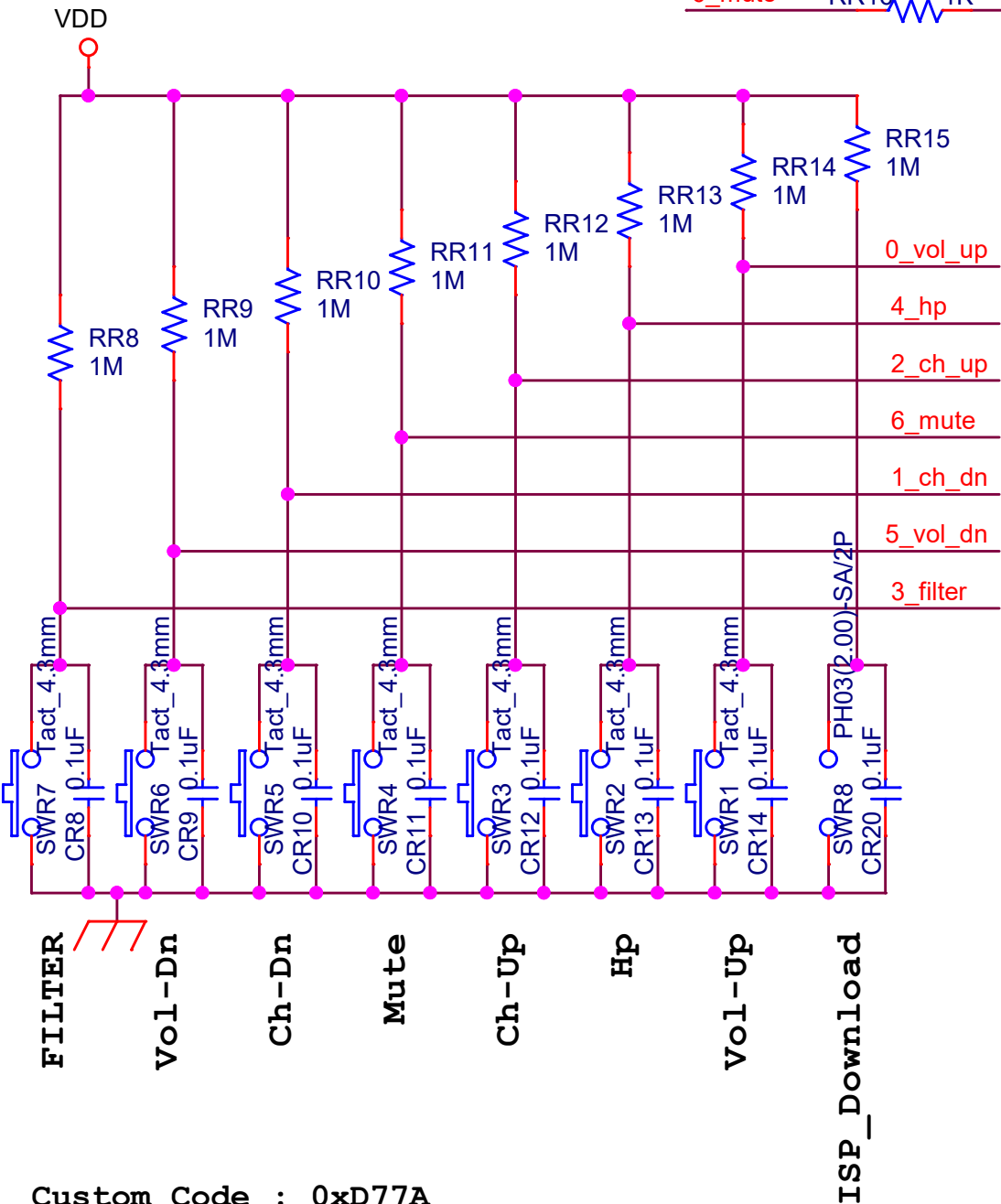


Title		
5 MCU Key_Display		
Size	Document Number	Rev
B	<Doc>	0V0
Date:	Thursday, August 17, 2017	Sheet 6 of 7

ExtRemocon



CWR1(Battery_Holder):BH-2AAA



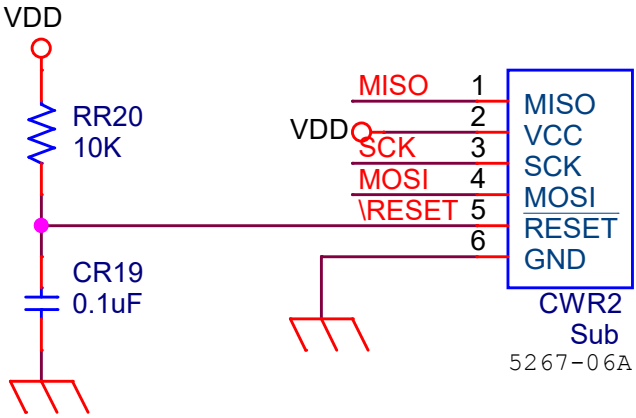
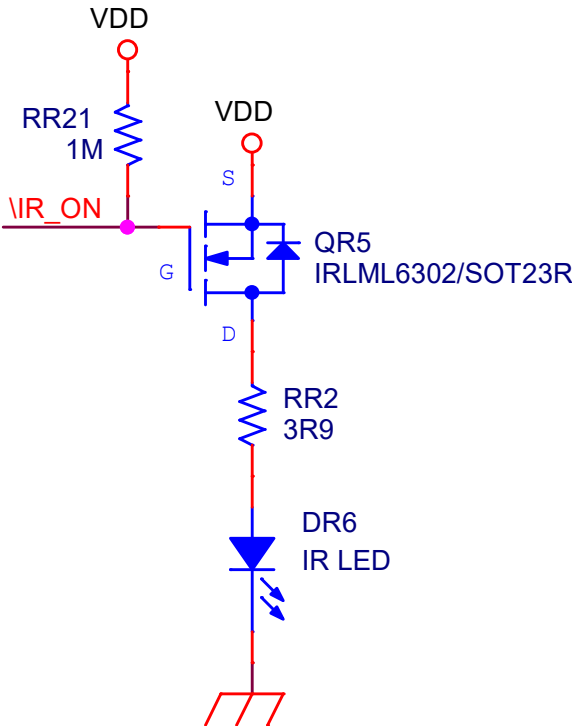
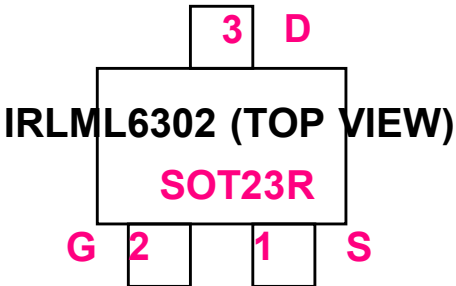
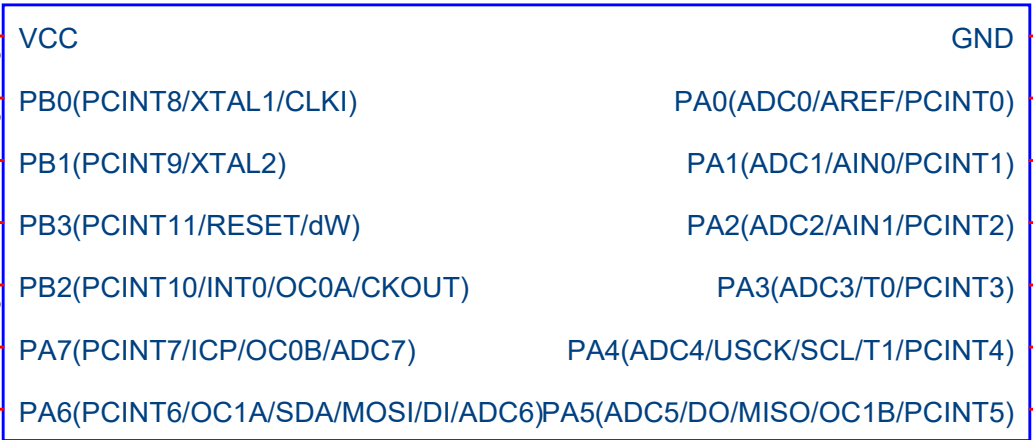
Custom Code : 0xD77A

Data Code :

```
//MUTE : 0xB0;
//VOL-UP : 0x80;
//VOL-DOWN : 0xA8;
//CH-UP : 0x90;
//CH-DOWN : 0x88;
//HP : 0xA0;
//FILTER : 0x98;
```

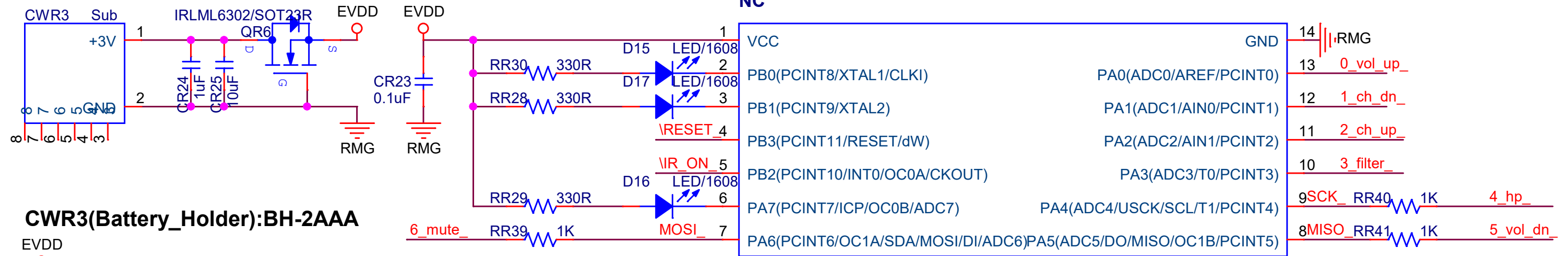
0 = vol-up,
1 = ch-dn,
2 = ch-up,
3 = filter,
4 = hp,
5 = vol-dn,
6 = mute

ICR5 ATTINY84V-10SSU/14SOIC

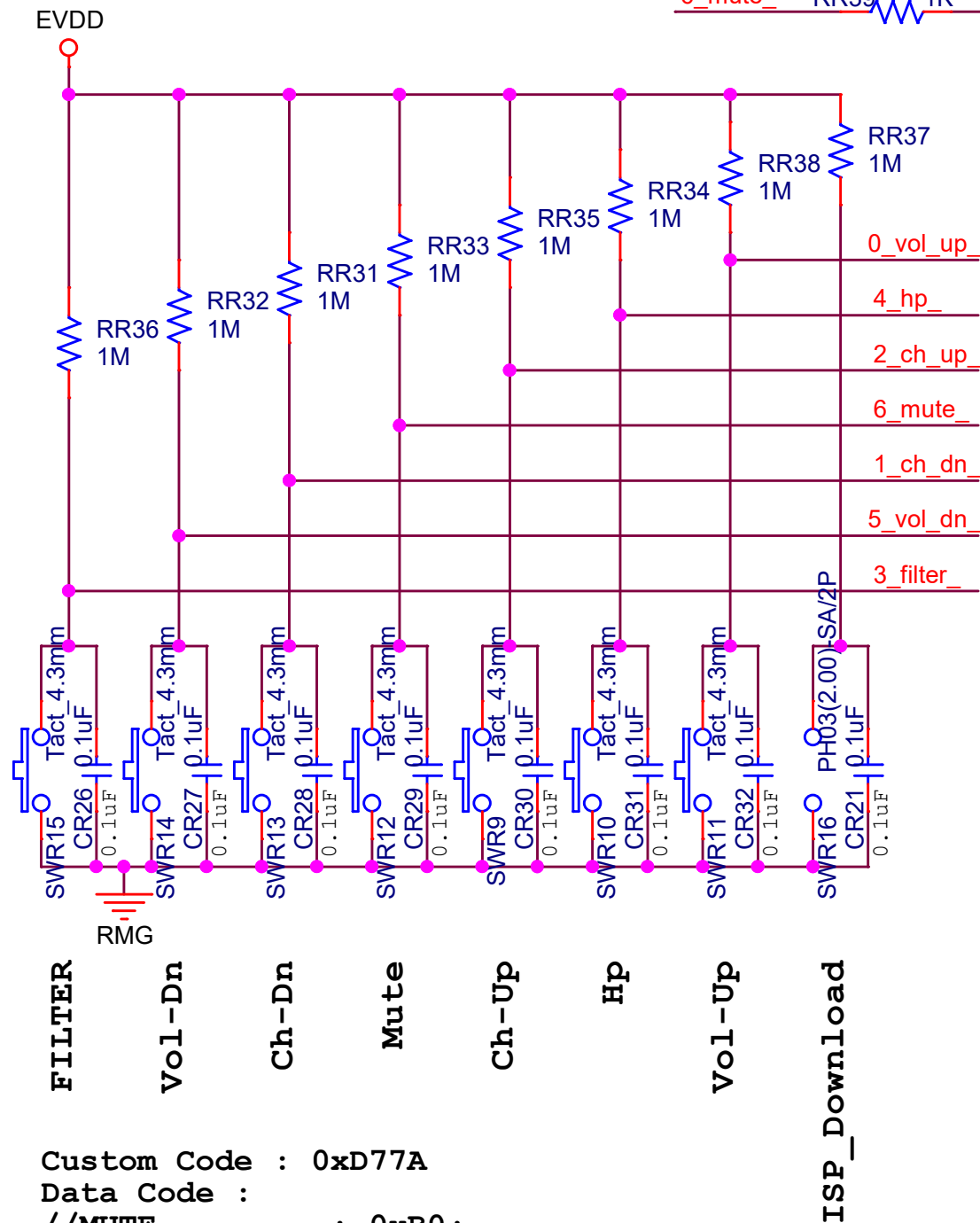


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Remocon		
Size A	Document Number <Doc>	Rev 0.1
Date:	Thursday, August 17, 2017	Sheet 7 of 7

ExtRemocon-EXTRA

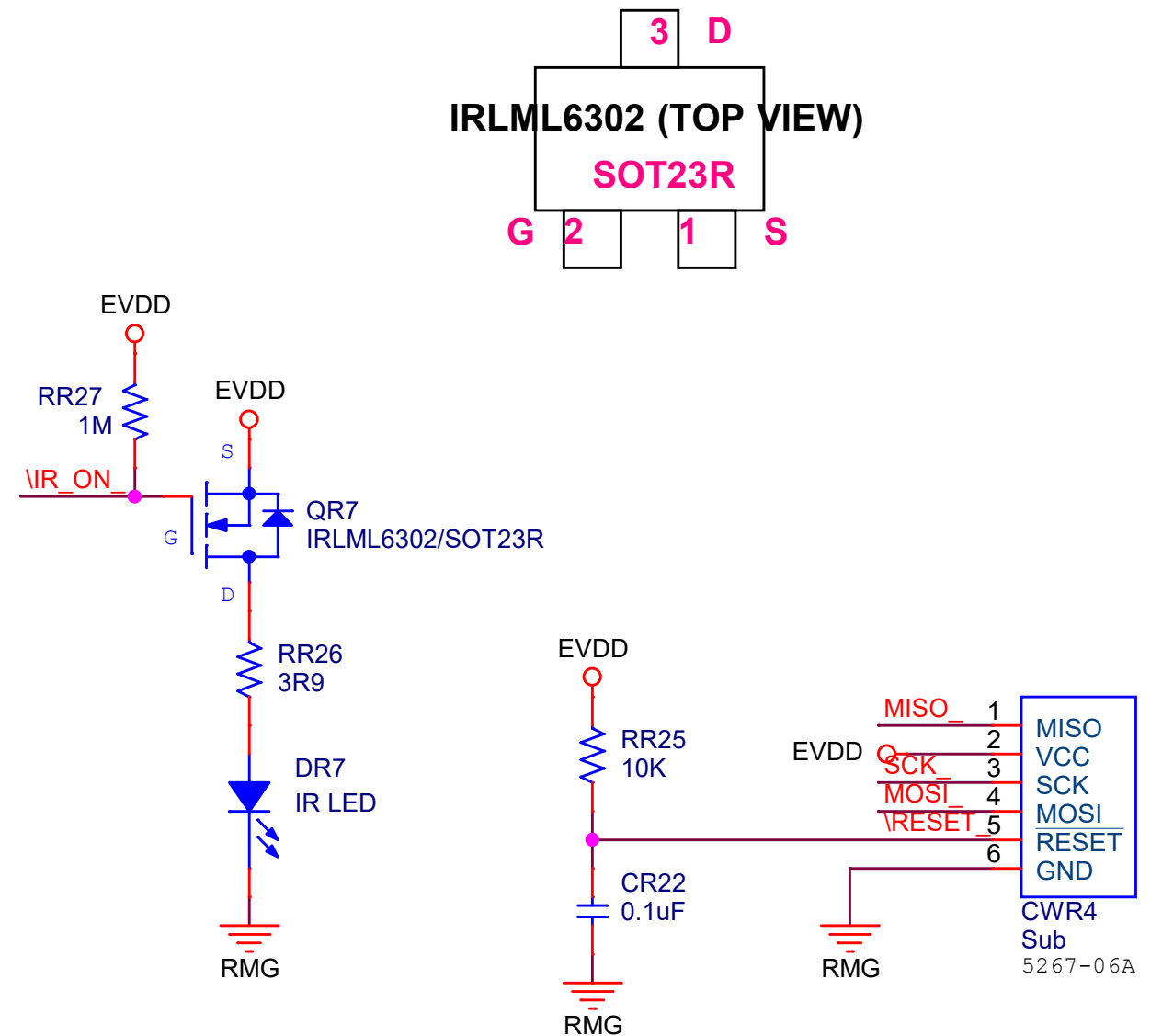


CWR3(Battery_Holder):BH-2AAA



```
Custom Code : 0xD77A
Data Code :
//MUTE : 0xB0;
//VOL-UP : 0x80;
//VOL-DOWN : 0xA8;
//CH-UP : 0x90;
//CH-DOWN : 0x88;
//HP : 0xA0;
//FILTER : 0X98;
```

```
0 = vol-up,
1 = ch-dn,
2 = ch-up,
3 = filter,
4 = hp,
5 = vol-dn,
6 = mute
```



IRLML6302 (TOP VIEW)

SOT23R

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Title

Remocon

Size A	Document Number <Doc>
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Rev
0.1

Date: Thursday, August 17, 2017

Sheet 7 of 7