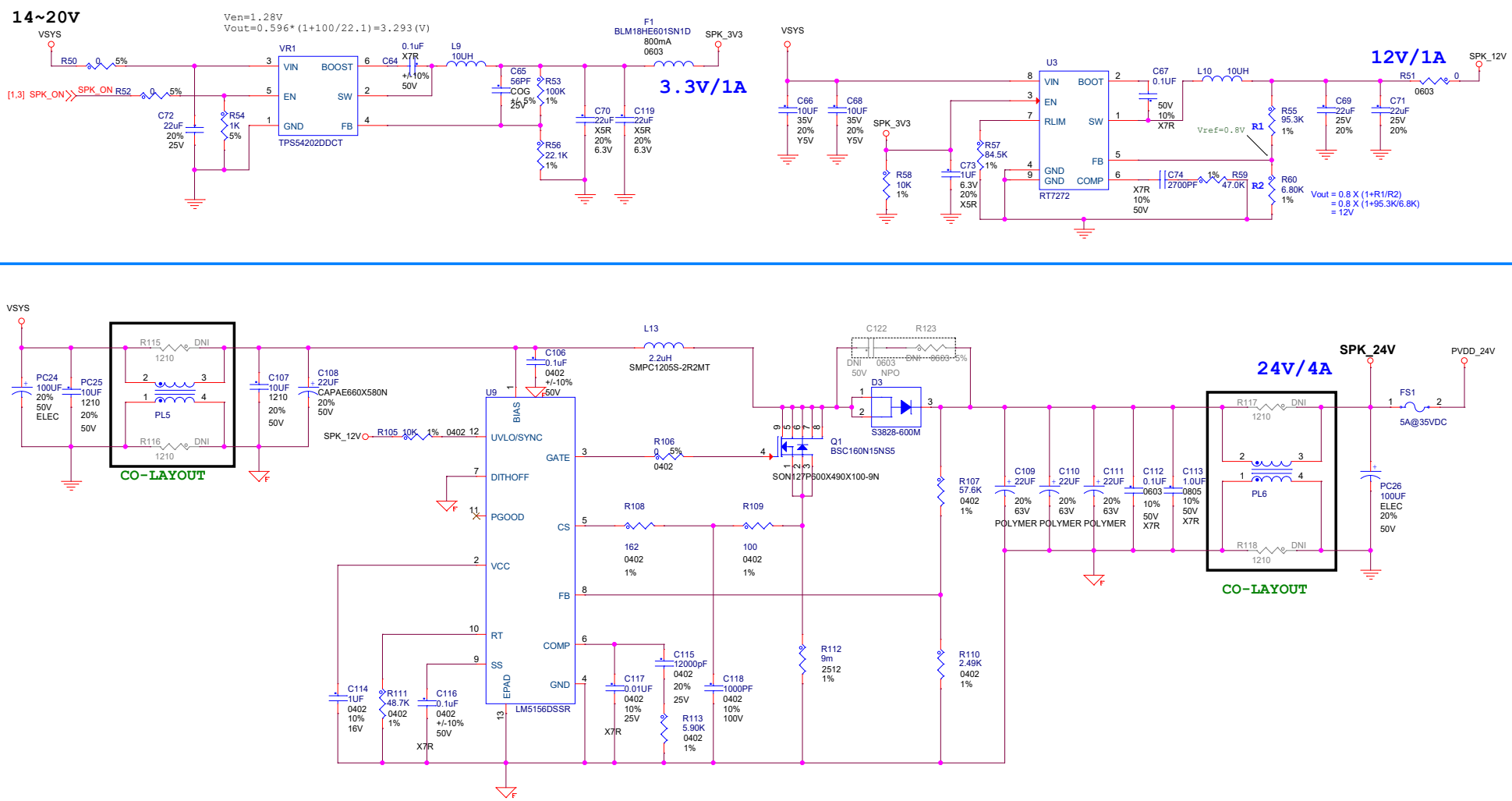
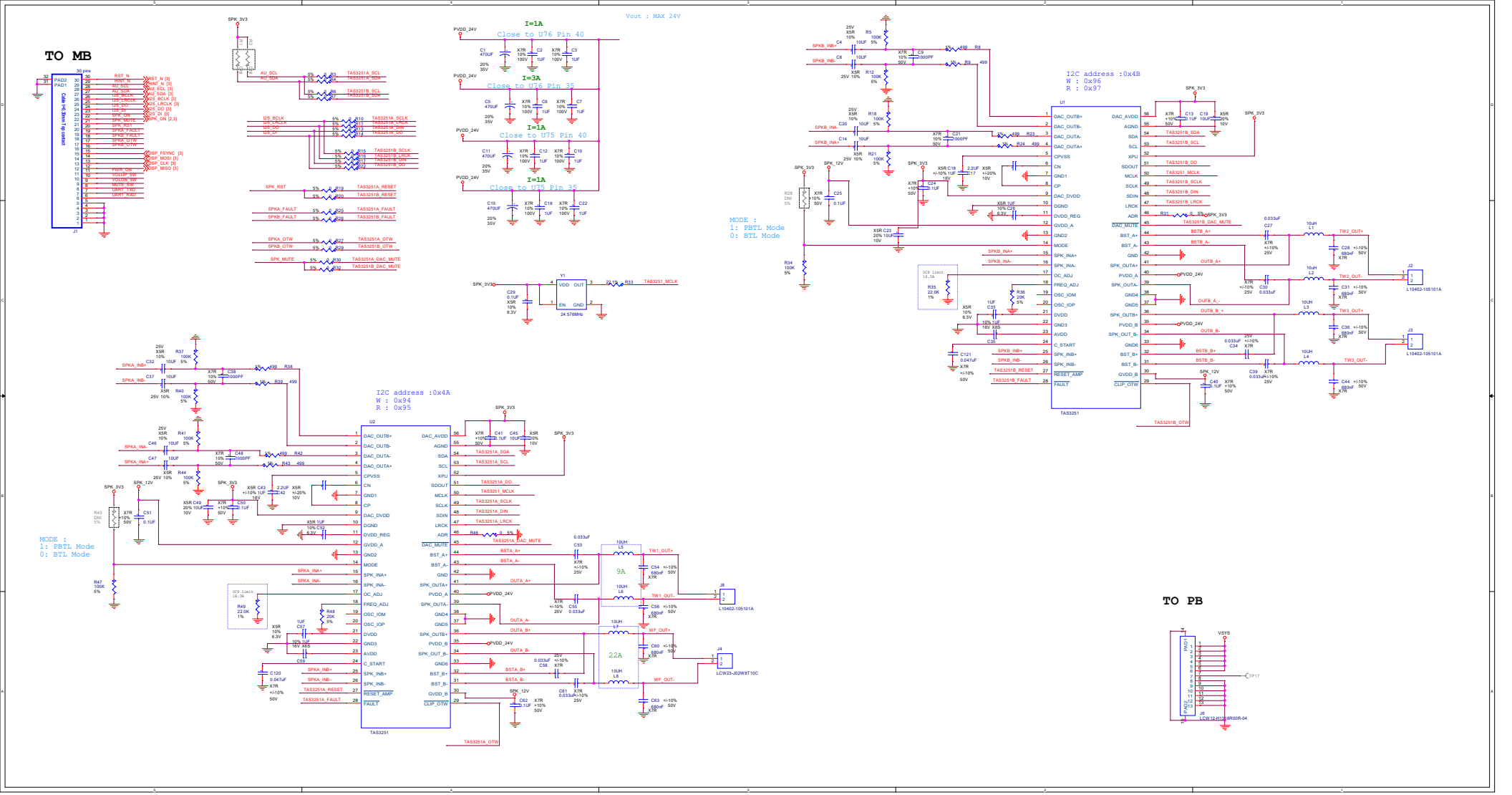

14~20V
Ven=1.28V
Vout=0.596*(1+100/22.1)=3.293(V)
VSYS
R50 0 5%
[1,3] SPK_ON
SPK_ON R52 0 5%
VR1
VIN
BOOST
EN
SW
GND
FB
TPS54202DDCT
R54 1K 5%
C72 22uF 20% 25V
C64 0.1uF X7R +/-10% 50V
L9 10UH
C65 56PF COG 5% 25V
R53 100K 1%
R56 22.1K 1%
C70 22uF X5R 20% 6.3V
C119 22uF X5R 20% 6.3V
F1 BLM18HE601SN1D 800mA 0603
SPK_3V3
3.3V/1A
VSYS
C66 10UF 35V 20% Y5V
C68 10UF 35V 20% Y5V
SPK_3V3
R58 10K 1%
U3
VIN
BOOT
EN
RLIM
SW
GND
GND
COMP
FB
RT7272
R57 84.5K 1%
C73 1UF 6.3V 20% X5R
C67 0.1UF 50V 10% X7R
L10 10UH
12V/1A
SPK_12V
R51 0 0603
C69 22uF 25V 20%
C71 22uF 25V 20%
Vref=0.8V
R1
R55 95.3K 1%
R2
R60 6.80K 1%
C74 2700PF
R59 47.0K 1%
X7R 10% 50V
Vout = 0.8 X (1+R1/R2)
= 0.8 X (1+95.3K/6.8K)
= 12V
VSYS
PC24 100UF 20% 50V ELEC
PC25 10UF 1210 20% 50V
R115 DNI 1210
PL5
R116 DNI 1210
CO-LAYOUT
C107 10UF 1210 20% 50V
C108 22UF CAPAE660X580N 20% 50V
SPK_12V
R105 10K 1% 0402
U9
BIAS
UVLO/SYNC
GATE
DITHOFF
PGOOD
CS
VCC
FB
RT
COMP
SS
EPAD
GND
LM5156DSSR
C106 0.1uF 0402 +/-10% 50V
L13 2.2uH SMPC1205S-2R2MT
C122 DNI 50V
R123 DNI 0603 NPO 5%
D3
S3828-600M
Q1 BSC160N15NS5
SON127P500X490X100-9N
R106 0 5% 0402
R108 162 0402 1%
R109 100 0402 1%
R107 57.6K 0402 1%
R112 9m 2512 1%
R110 2.49K 0402 1%
C109 22UF 20% 63V POLYMER
C110 22UF 20% 63V POLYMER
C111 22UF 20% 63V POLYMER
C112 0.1UF 0603 10% 50V X7R
C113 1.0UF 0805 10% 50V X7R
24V/4A
SPK_24V
PVDD_24V
R117 DNI 1210
PL6
R118 DNI 1210
CO-LAYOUT
FS1 5A@35VDC
PC26 100UF ELEC 20% 50V
C114 1UF 0402 10% 16V
R111 48.7K 0402 1%
C116 0.1uF 0402 +/-10% 50V X7R
C115 12000pF 0402 20% 25V
C117 0.01UF 0402 10% 25V X7R
C118 1000PF 0402 10% 100V
R113 5.90K 0402 1%


TO MB
30 pins
Cable H=4.5mm 1 connect
RST_N
RINT_N
AU_SCL
AU_SDA
AU_BCLK
AU_LRCLK
I2S_DO
I2S_DI
SPK_ON
SPK_MUTE
SPKA_FAULT
SPKB_FAULT
SPKA_OTW
SPKB_OTW
DSP_FSYNC
DSP_MOSI
DSP_CLK
DSP_MISO
PWR_ON
VOLUP_SW
VOLDN_SW
MUTE_SW
UART_TXD
UART_RXD
SPK_3V3
I2S_BCLK
I2S_LRCLK
I2S_DO
I2S_DI
SPK_RST
SPKA_FAULT
SPKB_FAULT
SPKA_OTW
SPKB_OTW
SPK_MUTE
TAS3251A_SCL
TAS3251B_SCL
TAS3251A_SDA
TAS3251B_SDA
TAS3251A_BCLK
TAS3251A_LRCK
TAS3251A_DIN
TAS3251A_DO
TAS3251B_BCLK
TAS3251B_LRCK
TAS3251B_DIN
TAS3251B_DO
TAS3251A_RESET
TAS3251B_RESET
TAS3251A_FAULT
TAS3251B_FAULT
TAS3251A_OTW
TAS3251B_OTW
TAS3251A_DAC_MUTE
TAS3251B_DAC_MUTE
Vout : MAX 24V
I=1A
Close to U76 Pin 40
I=3A
Close to U76 Pin 35
I=1A
Close to U75 Pin 40
I=1A
Close to U75 Pin 35
PVDD_24V
Y1
24.576MHz
TAS3251_MCLK
I2C address :0x4B
W : 0x96
R : 0x97
MODE :
1: PBTL Mode
0: BTL Mode
U1
TAS3251
I2C address :0x4A
W : 0x94
R : 0x95
U2
TAS3251
MODE :
1: PBTL Mode
0: BTL Mode
9A
22A
TO PB
J1
J2
J3
J4
J8
L10402-105101A
LCW23-J02W8T10C
LCW12-H126-BR00R-04