

F1 FIDUCIAL

F2 FIDUCIAL

F3 FIDUCIAL

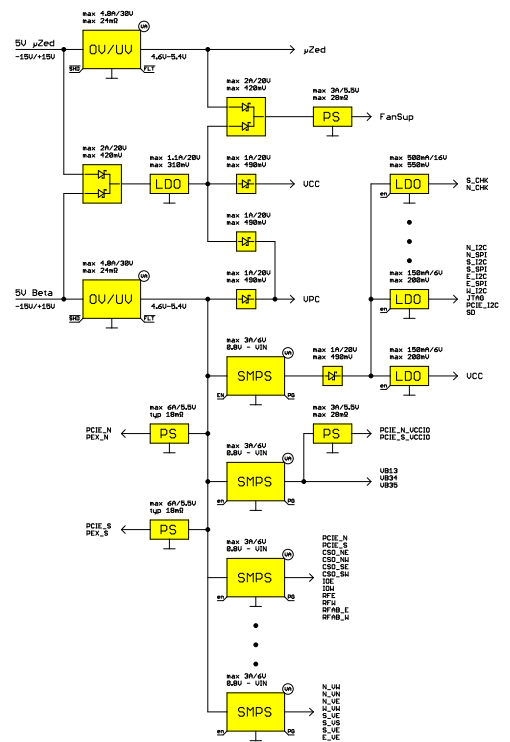
F4 FIDUCIAL

F5 FIDUCIAL

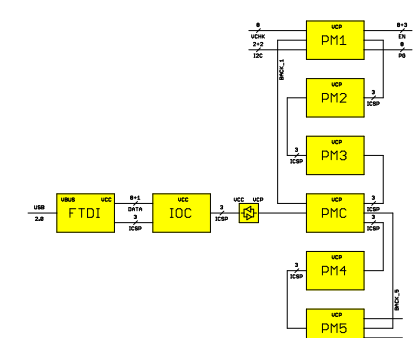
F6 FIDUCIAL

F7 FIDUCIAL

F8 FIDUCIAL



OSHW
LOGO



OU/UV Resistors 0.5%

15.4	2.4	150	[4.713, 4.949, 5.448, 5.176]	[(4.672, 4.756), (4.905, 4.994), (5.399, 5.498), (5.129, 5.223)]
30.9	4.7	300	[4.713, 4.949, 5.430, 5.159]	[(4.672, 4.756), (4.905, 4.994), (5.381, 5.480), (5.112, 5.206)]
20.5	3.24	200	[4.712, 4.948, 5.457, 5.184]	[(4.670, 4.755), (4.904, 4.992), (5.408, 5.507), (5.137, 5.232)]

Future Modifications

Kelvin connection and diff routing for sense?
Round cream spots for better reflow?
Replace Q1-Q3 by pre biased bipolar or alternatively add miller capacitance

Maybe two resistors for R10/R14 or R12/R16 for finetuning?
Turn R2* 90deg and turn C3* 180deg away?
Add decoupling for digitpot and sensing?
Discharge mostet for 5V rails?

TODD:

✓ Adjust size 24 ratio to 15
Increase roundness on PIC pads?
✓ Check label orientation on bottom
✓ Add orientation marks for LEDs DS*
✓ Shorten RGB LED pin pads and make RN5 larger (EXB-24)

Positional markers for U1, U2, and U23
U17 label size vs U34
✓ large pad [LP] package

Orientation lines for 0402s?
PIC pin one marker sizes
Change D4 to MSS2P* [microSMP]
or maybe remove again?

✓ Make CXY just Cnn?

PARTS:

PCT2075TP,147 vs MCP9800T-E/MC
Switcher and HighU LDO capacitor ...

- EMK107BBJ106MA-T [10uF 16V X5R 0603]
- THK107BBJ106MA-T [10uF 25V X5R 0603 SMDPS]
- ZRB10AR61E106ME01L [10uF 25V X5R 0603 General, Interposer]
- GRT108R61E106ME130 [10uF 25V X5R 0603 Automotive]
- GRM108R61E106MA73D [10uF 25V X5R 0603]
- GRM108R6VA106MA73D [10uF 35V X5R 0603 Derate]

Precision resistors OU/UV

- RR0510P-5111-D [5k11 0.5% 25ppm/C]
- RR0510P-472-D [4k7 0.5% 25ppm/C]
- RR0510P-2492-D [24k9 0.5% 25ppm/C]
- ERJ2RK02403X [240k 0.5% 100ppm/C]

Prebiased bipolar transistor ...

- DDTc123JLP-7 2.2k/47k
- DDTc143ZLP-7 4.7k/47k
- DDTc114YLP-7 10k/47k
- DDTc113TLP-7 1k/inf
- PDTc143ZT,315 4k7/47k
- PDTc114TT,315 10k/inf

AXIOM Beta Power Board

Overview

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