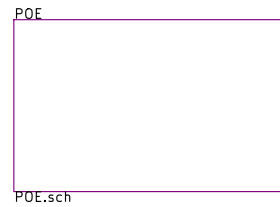
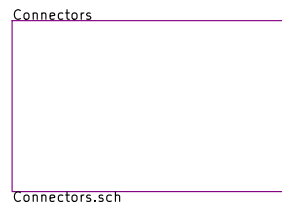


PoE vzorové schéma s TPS23754

25W ETH PoE podle IEEE 802.3at (type 2)



Connectors

PoE

Differential traces:
Width: 170 um
Spacing: 200um

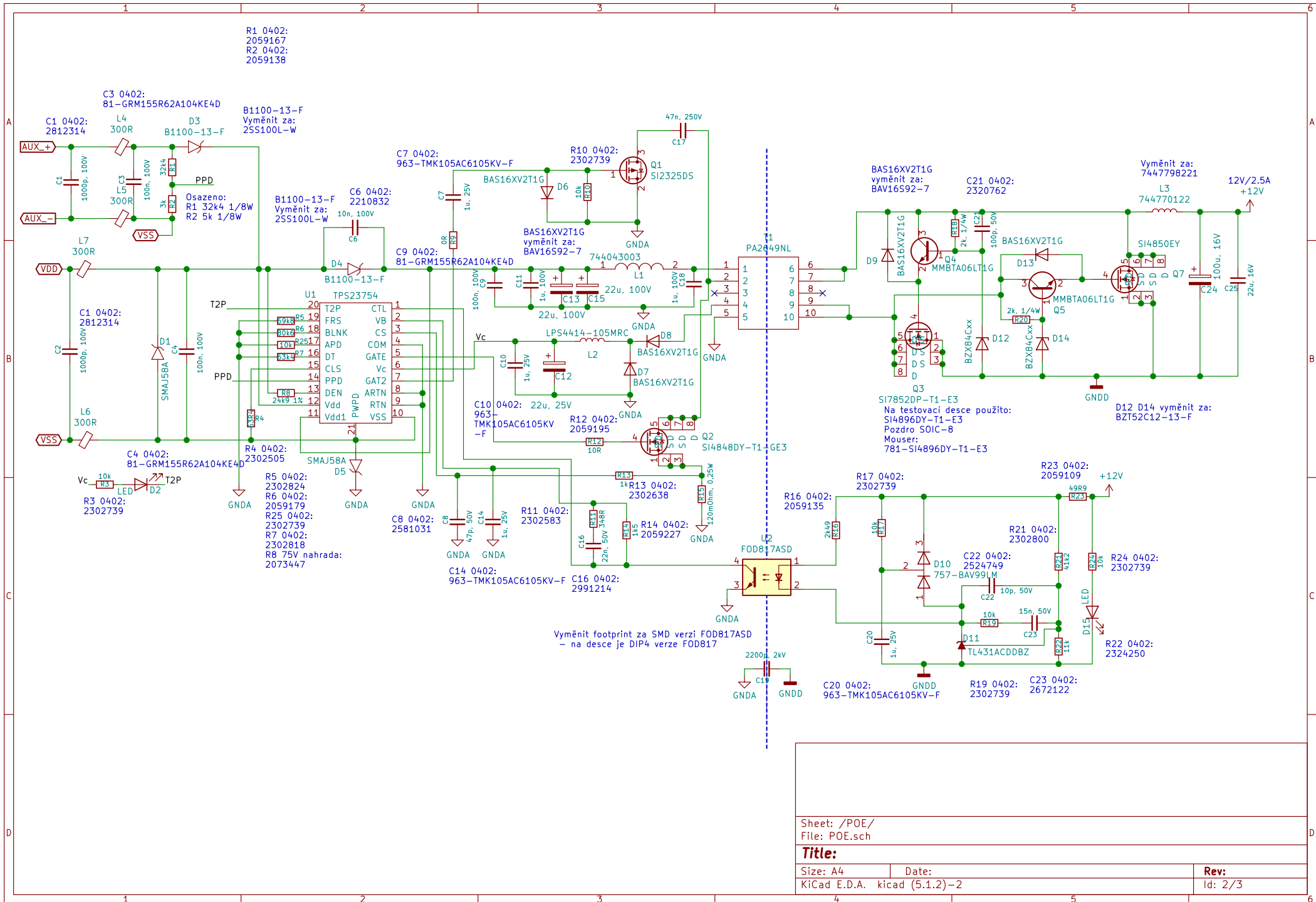
Zdiff: 98.7
Zo: 55.3

Stack up:
Base Foil: 18um
Conductor Height: 146um
Final Copper: 35um
Laminate: 1201um
Final Copper: 35um
Conducotr Height: 146um
Base Copper: 18um

Stack-up:
https://www.pragoboard.cz/en/navrhy_konstrukce_rigid



Sheet: /	
File: PCB_POE_TPS23752.sch	
Title:	
Size: A4	Date:
KiCad E.D.A. kicad (5.1.2)-2	Rev: 1/3



R1 0402:
2059167
R2 0402:
2059138

C3 0402:
81-GRM155R62A104KE4D

B1100-13-F
Vyměnit za:
25S100L-W

C1 0402:
2812314
L4 300R
D3 B1100-13-F
L5 300R
L3 300R
VSS
Osazeno:
R1 32k4 1/8W
R2 5k 1/8W

C6 0402:
2210832
Vyměnit za:
25S100L-W

C7 0402:
963-TMK105AC6105KV-F

R10 0402:
2302739
Q1 SI2325DS
BAS16XV2T1G
D6 10k
GND

BAS16XV2T1G
vyměnit za:
BAV16S92-7

C21 0402:
2320762

Vyměnit za:
7447798221
L3 744770122

12V/2,5A
+12V

C9 0402:
81-GRM155R62A104KE4D

BAS16XV2T1G
vyměnit za:
BAV16S92-7
744043003
L1 22u, 100V
C11 1u, 100V
C13 22u, 100V
C15 1u, 100V
C18 1u, 100V
GND

BAS16XV2T1G
vyměnit za:
BAV16S92-7

C22 0402:
2320762

Vyměnit za:
7447798221
L3 744770122

100u, 16V
C24 C25
22u, 16V

C1 0402:
2812314
L7 300R
VDD
C4 1000p, 100V
D1 SMAJ58A
C4 100n, 100V
PPD

T2P
U1 TPS23754
CTL 1
FRS 2
VB 3
BLNK 4
CS 5
APD 6
DT 7
Vc 8
CLS 9
GATE 10
PPD 11
DEN 12
ARTN 13
Vdd 14
RTN 15
VSS 16
PWP 17
RTN 18
VSS 19
Vdd1 20

PPD
C4 0402:
81-GRM155R62A104KE4D
R4 0402:
2302505
SMAJ58A
D5
GND

C10 0402:
22u, 25V
C12 1u, 25V
L2 LPS4414-105MRC
GND

BAS16XV2T1G
D7 BAS16XV2T1G
D8 BAS16XV2T1G
GND

BAS16XV2T1G
vyměnit za:
BAV16S92-7

C22 0402:
2320762

Vyměnit za:
7447798221
L3 744770122

100u, 16V
C24 C25
22u, 16V

Vc 10k
R3 0402:
2302739
LED
D2
T2P
GND

R5 0402:
2302824
R6 0402:
2059179
R25 0402:
2302739
R7 0402:
2302818
R8 75V nahrada:
2073447

R4 0402:
2302505
SMAJ58A
D5
GND

C14 0402:
963-TMK105AC6105KV-F
C16 0402:
2991214

R11 0402:
2302583
R12 0402:
2059195
R13 1k
R13 0402:
2302638
R14 0402:
2059227
R15 1k5
R16 22n, 50V 348R
C16 0402:
2991214

BAS16XV2T1G
vyměnit za:
BAV16S92-7

C22 0402:
2320762

Vyměnit za:
7447798221
L3 744770122

100u, 16V
C24 C25
22u, 16V

R3 0402:
2302739
LED
D2
T2P
GND

R5 0402:
2302824
R6 0402:
2059179
R25 0402:
2302739
R7 0402:
2302818
R8 75V nahrada:
2073447

R4 0402:
2302505
SMAJ58A
D5
GND

C14 0402:
963-TMK105AC6105KV-F
C16 0402:
2991214

R11 0402:
2302583
R12 0402:
2059195
R13 1k
R13 0402:
2302638
R14 0402:
2059227
R15 1k5
R16 22n, 50V 348R
C16 0402:
2991214

BAS16XV2T1G
vyměnit za:
BAV16S92-7

C22 0402:
2320762

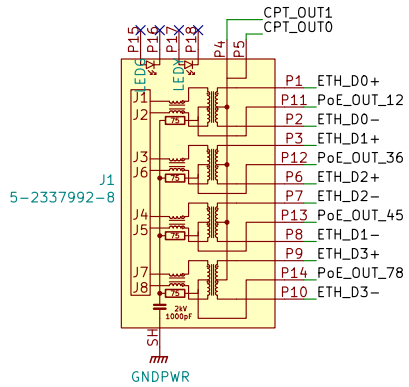
Vyměnit za:
7447798221
L3 744770122

100u, 16V
C24 C25
22u, 16V

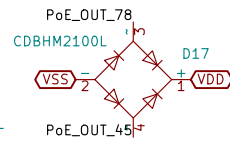
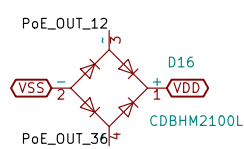
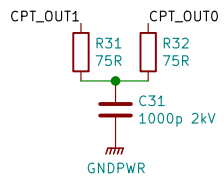
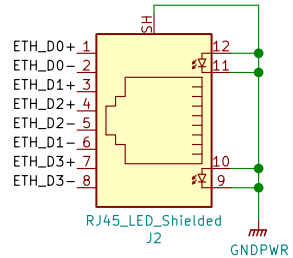
Vyměnit footprint za SMD verzi FOD817ASD
- na desce je DIP4 verze FOD817

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Size: A4	Date:	Rev:	
KiCad E.D.A. kicad (5.1.2)-2		Id: 2/3	

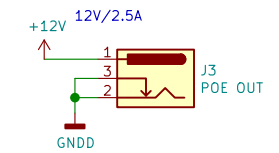
POE



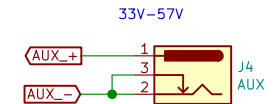
ETH DATA



Power Output



Auxiliary input



Sheet: /Connectors/
 File: Connectors.sch

Title:

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Date:

Rev:
 Id: 3/3