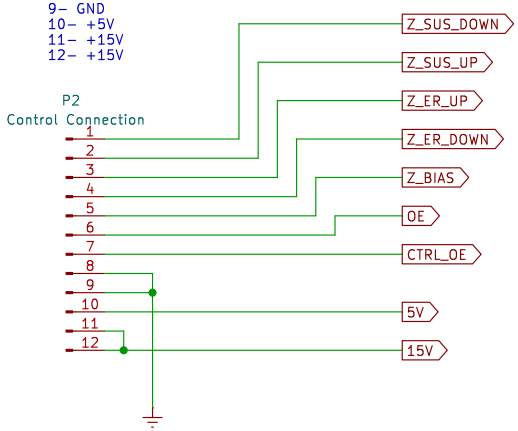
INPUT CONNECTORS

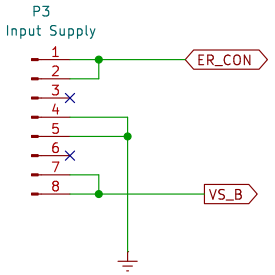
P2

1- Z_SUS_DN
2- Z_SUS_IP
3- Z_ER_UP
4- Z_ER_DN
5- Z_BIAS
6- OE
7- CTRL_OE
8- GND
9- GND
10- +5V
11- +15V
12- +15V



P3

1- ER_COM
2- ER_COM
3- NC
4- GND
5- GND
6- NC
7- +VS
8- +VS



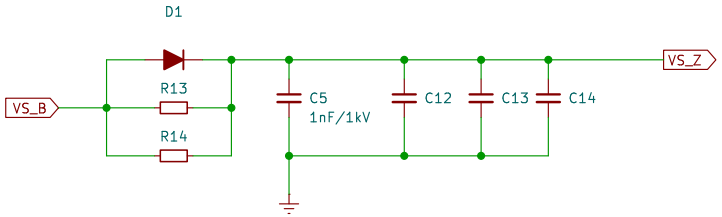
CONNECTIONS
Author: Fábio Pereira da Silva

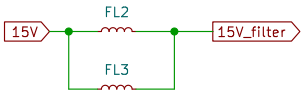
Sheet: /
File: x_board.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 1/11

Z POWER SUPPLY





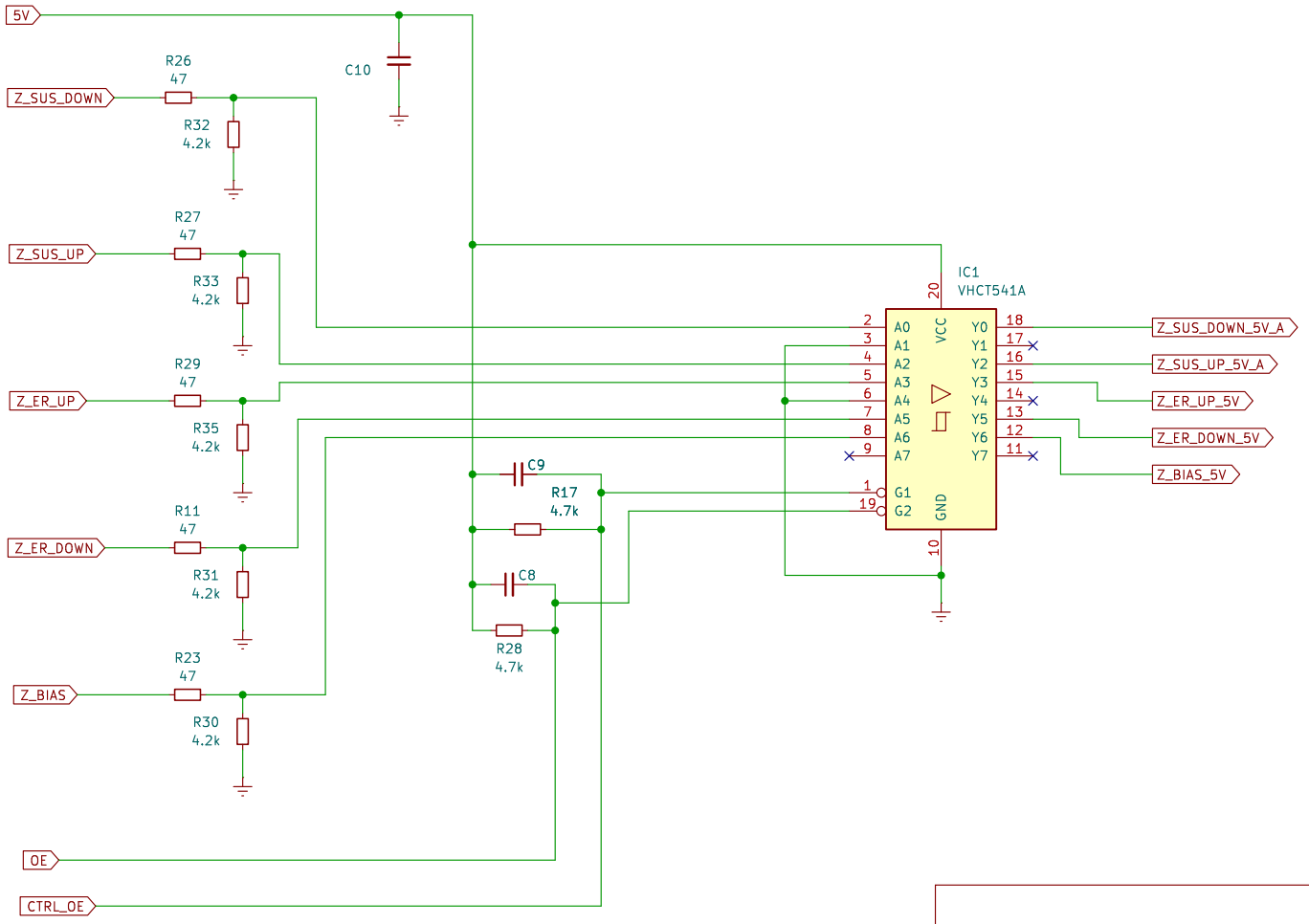
Z POWER SUPPLY
Author: Fábio Pereira da Silva

Sheet: /Z POWER SUPPLY/
File: z_power_supply.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 2/11

Z CONTROL



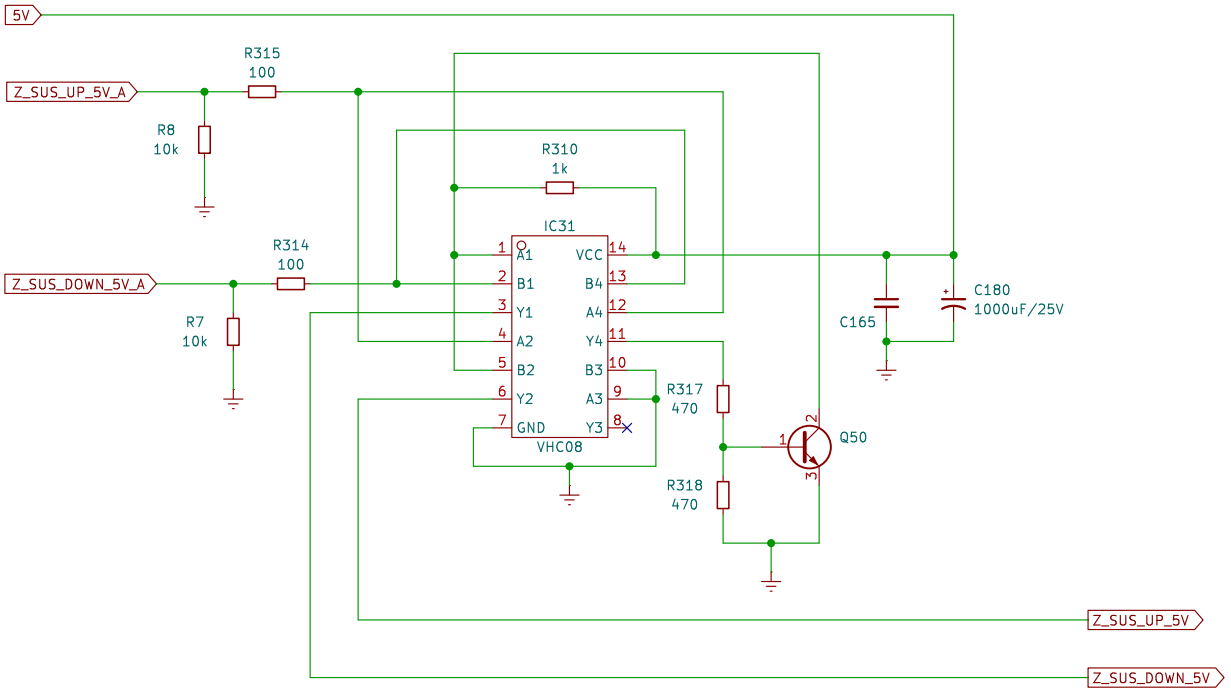
Z CONTROL
Author: Fábio Pereira da Silva

Sheet: /Z_CONTROL/
File: z_ctrl.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 3/11

Z PROTECTION



Z PROTECTION
Author: Fábio Pereira da Silva

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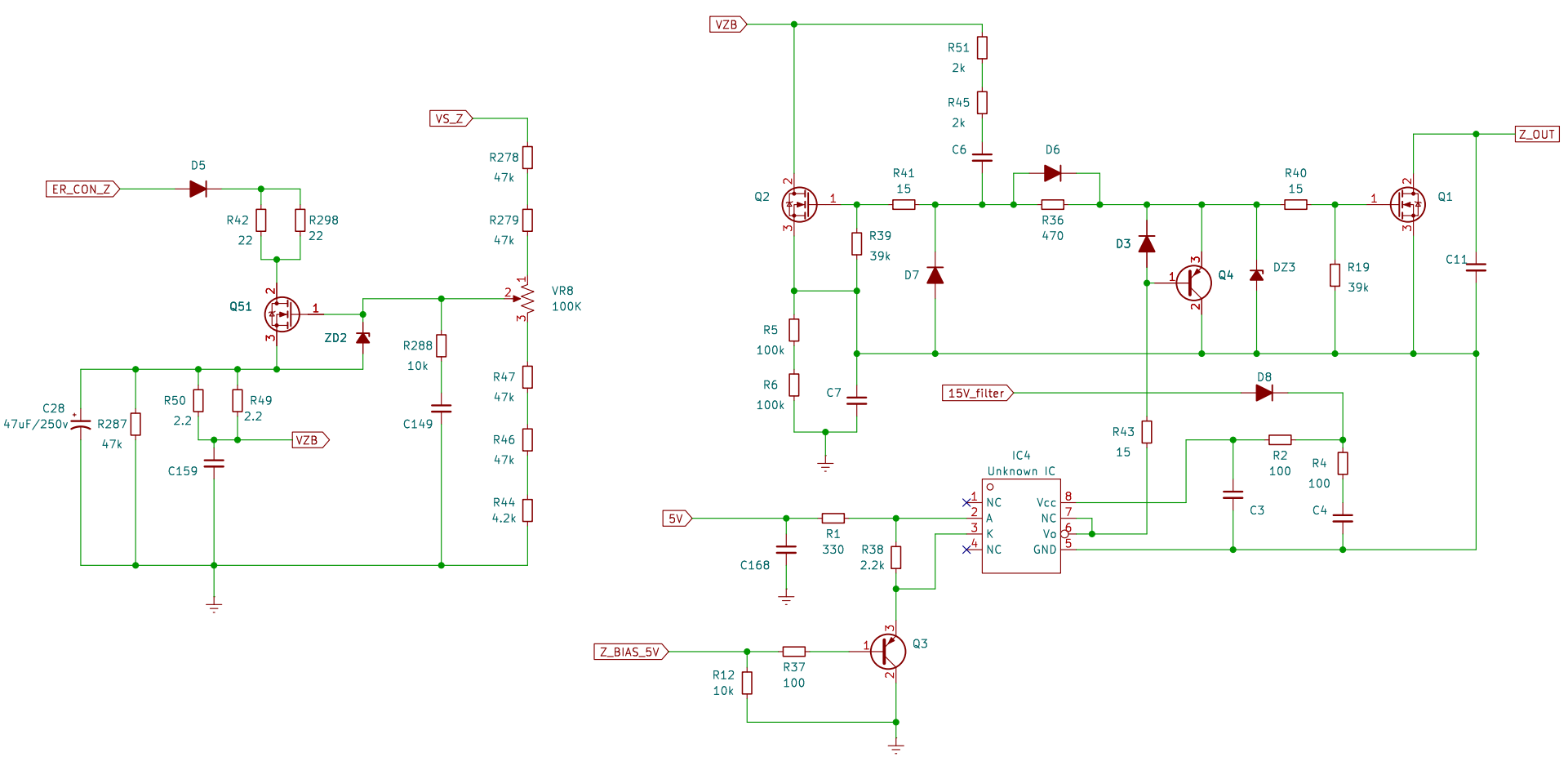
File: z_protection.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

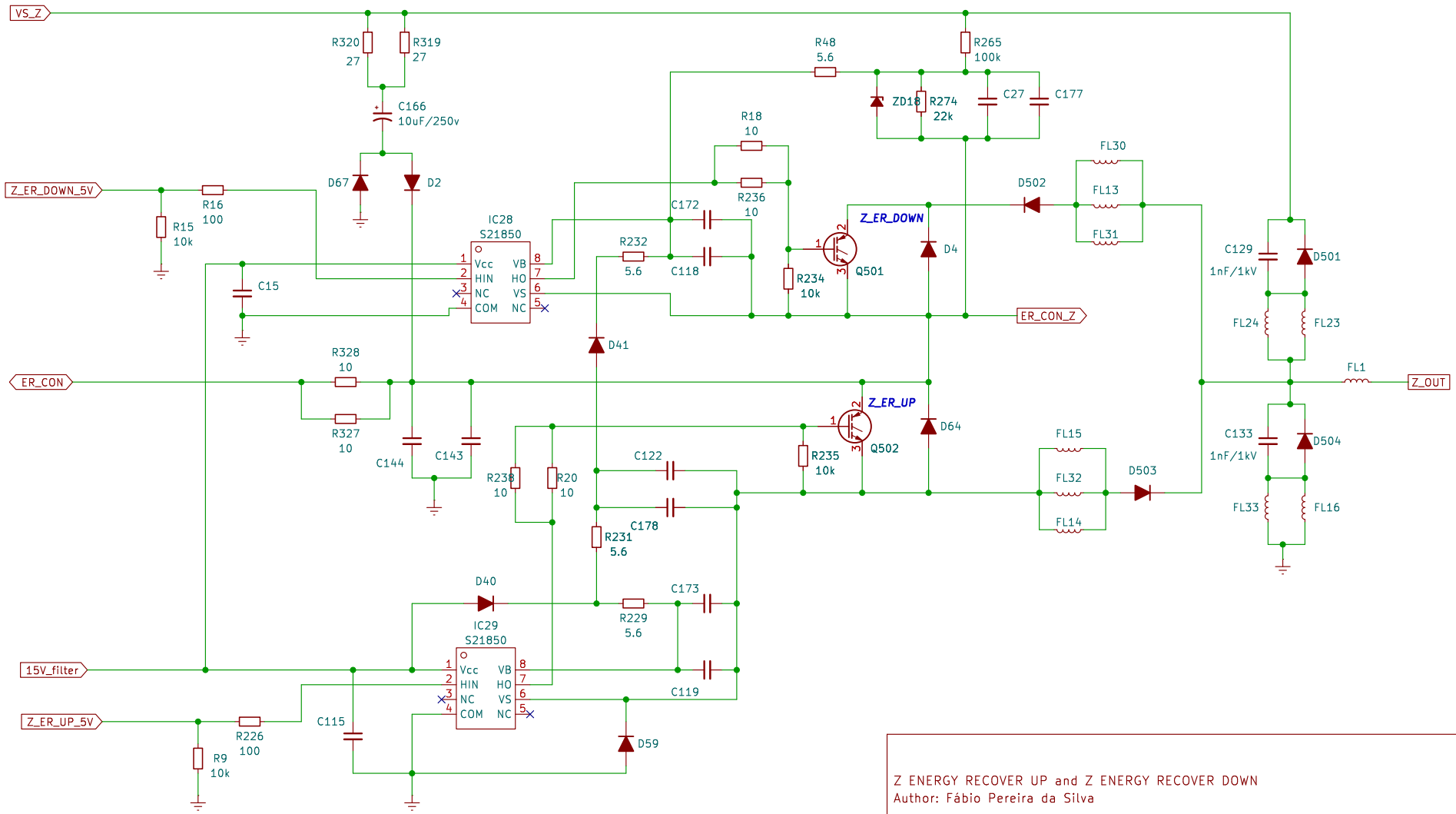
Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 4/11

VZB



VZB Author: Fábio Pereira da Silva		
Sheet: /VZB/ File: vzb.kicad_sch		
Title: X BOARD LG PLASMA TV PANEL		
Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 5/11

Z ENERGY RECOVER UP and Z ENERGY RECOVER DOWN



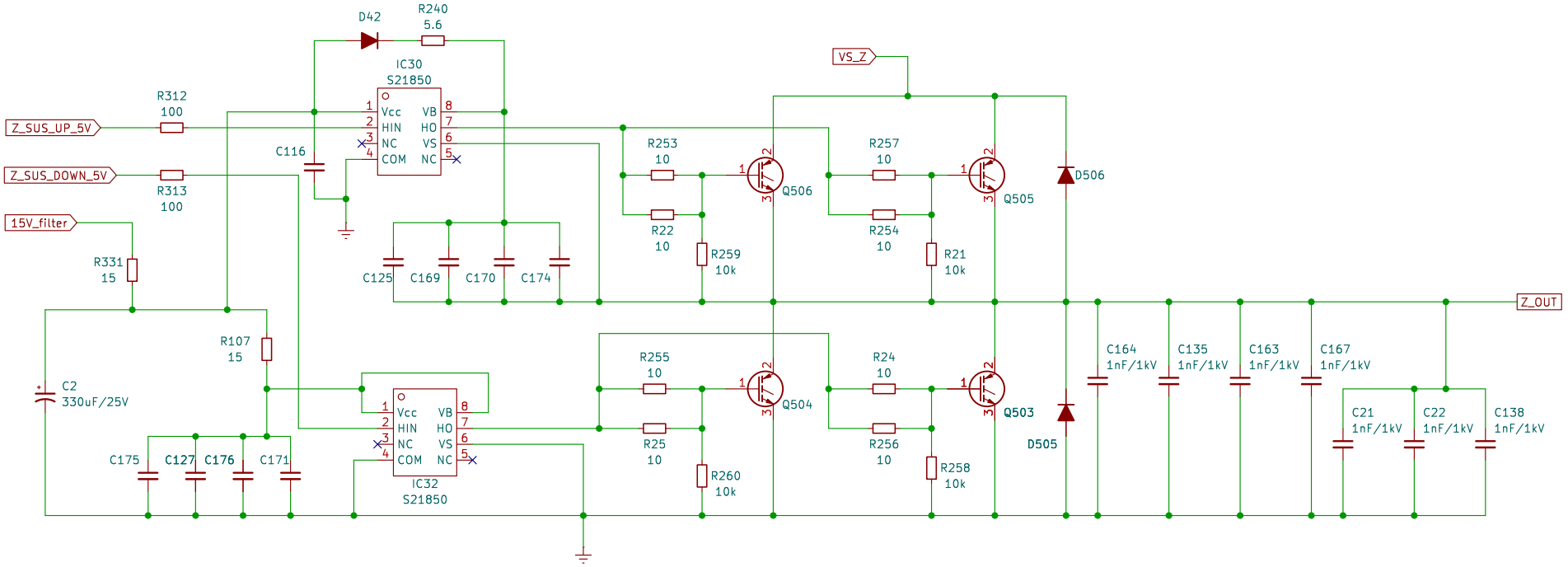
Z ENERGY RECOVER UP and Z ENERGY RECOVER DOWN
Author: Fábio Pereira da Silva

Sheet: /Z_ER_UP_AND_Z_ER_DOWN/
File: z_er_up_and_z_er_dn.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 6/11

Z SUS UP and Z SUS DOWN



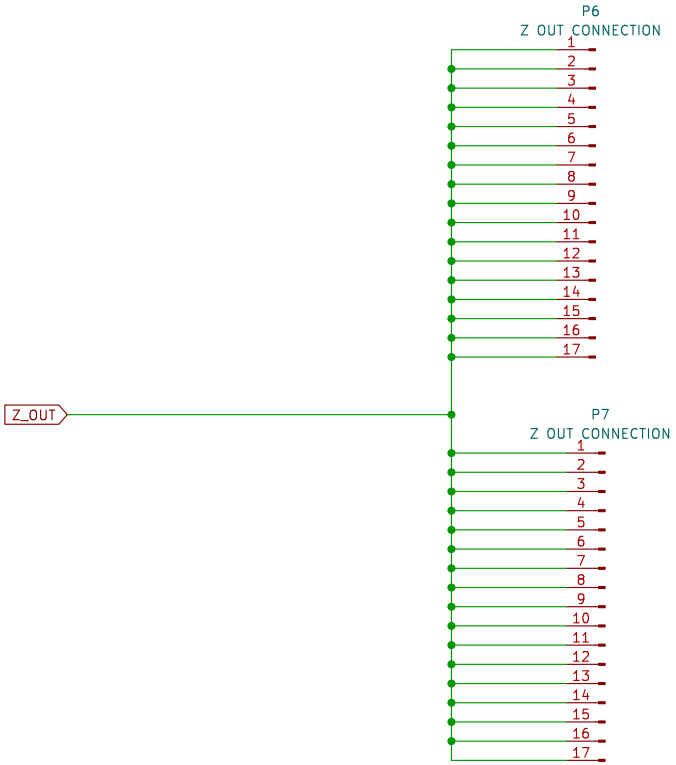
Z SUS UP AND Z SUS DOWN
Author: Fábio Pereira da Silva

Sheet: /Z SUS UP AND Z SUS DOWN/
File: z_sus_up_and_z_sus_dn.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 7/11

Z OUT CONNECTORS



Z OUT CONNECTIONS
Author: Fábio Pereira da Silva

Sheet: /Z_OUT_CONNECTIONS/
File: z_out_conn.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 8/11

Measurements (P3)

P3

Res (OHMS)	Reverse bias (V)	Foward bias (V)
1- 246k	1- 0.501	1- OL
2- 246k	2- 0.501	2- OL
3- OL	3- OL	3- OL
4- 0	4- 0	4- 0
5- 0	5- 0	5- 0
6- OL	6- OL	6- OL
7- 127k	7- 0.744	7- OL
8- 127k	8- 0.744	8- OL

Measurements (P3)
Author: Fábio Pereira da Silva

Sheet: /Measurements (P3)/
File: measurements_p3.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 9/11

Measurements (P2)

P2

Res (OHMS)	Reverse bias (V)	Foward bias (V)
1- 4.723k	1- 0.720	1- 2.727
2- 4.737k	2- 0.720	2- 2.729
3- 4.733k	3- 0.718	3- 2.729
4- 4.779k	4- 0.718	4- 2.737
5- 4.768k	5- 0.718	5- 2.736
6- OL	6- 0.725	6- OL
7- OL	7- 0.722	7- OL
8- 0	8- 0	8- 0
9- 0	9- 0	9- 0
10- OL	10- 0.536	10- OL
11- OL	11- 0.524	11- OL
12- OL	12- 0.524	12- OL

Measurements (P2)
Author: Fábio Pereira da Silva

Sheet: /Measurements (P2)/
File: measurements_p2.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 10/11

Measurements (P6) and (P7)

P6 and P7 (All pins with Ground reference)

Res (OHMS)	Reverse bias (V)	Foward bias (V)
183k	OL	0.372

P6 and P7 (All pins with VS reference)

Res (OHMS)	Reverse bias (V)	Foward bias (V)
–	OL	0.379

Measurements P6 and P7
Author: Fábio Pereira da Silva

Sheet: /Measurements (P6 and P7)/
File: measurements_p6_and_p7.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 11/11