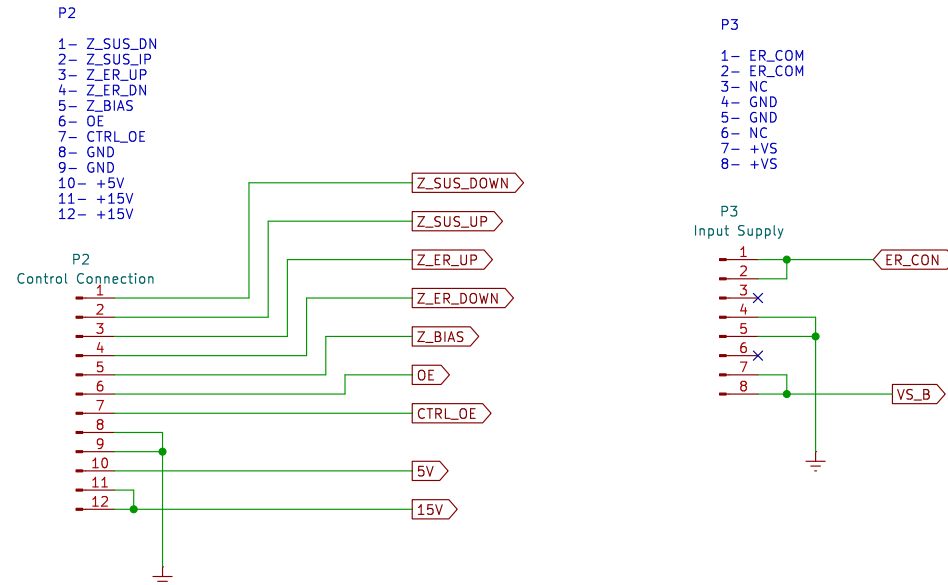


INPUT CONNECTORS



CONNECTIONS
Author: Fábio Pereira da Silva

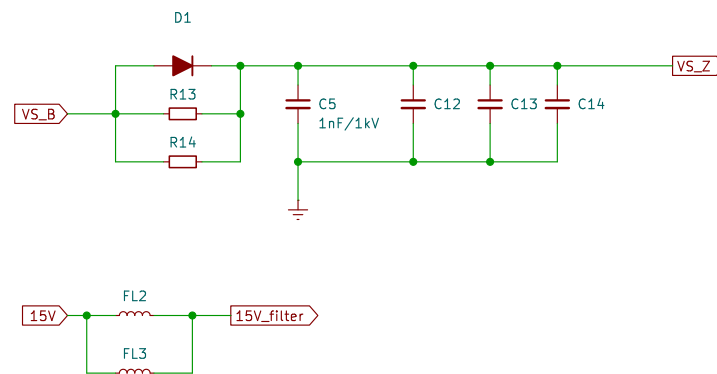
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File: x_board.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4
Date: 2025-04-03
KiCad E.D.A. 8.0.9

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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

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Z CONTROL

5V

Z_SUS_DOWN

R26 47

R32 4.2k

C10

Z_SUS_UP

R27 47

R33 4.2k

Z_ER_UP

R29 47

R35 4.2k

Z_ER_DOWN

R11 47

R31 4.2k

Z_BIAS

R23 47

R30 4.2k

OE

CTRL_OE

IC1 VHCT541A

A0 VCC

A1

A2

A3

A4

A5

A6

A7

Y0

Y1

Y2

Y3

Y4

Y5

Y6

Y7

G1

G2

GND

Z_SUS_DOWN_5V_A

Z_SUS_UP_5V_A

Z_ER_UP_5V

Z_ER_DOWN_5V

Z_BIAS_5V

C9

R17 4.7k

C8

R28 4.7k

Sheet: /Z_CONTROL/
File: z_ctrl.kicad_sch

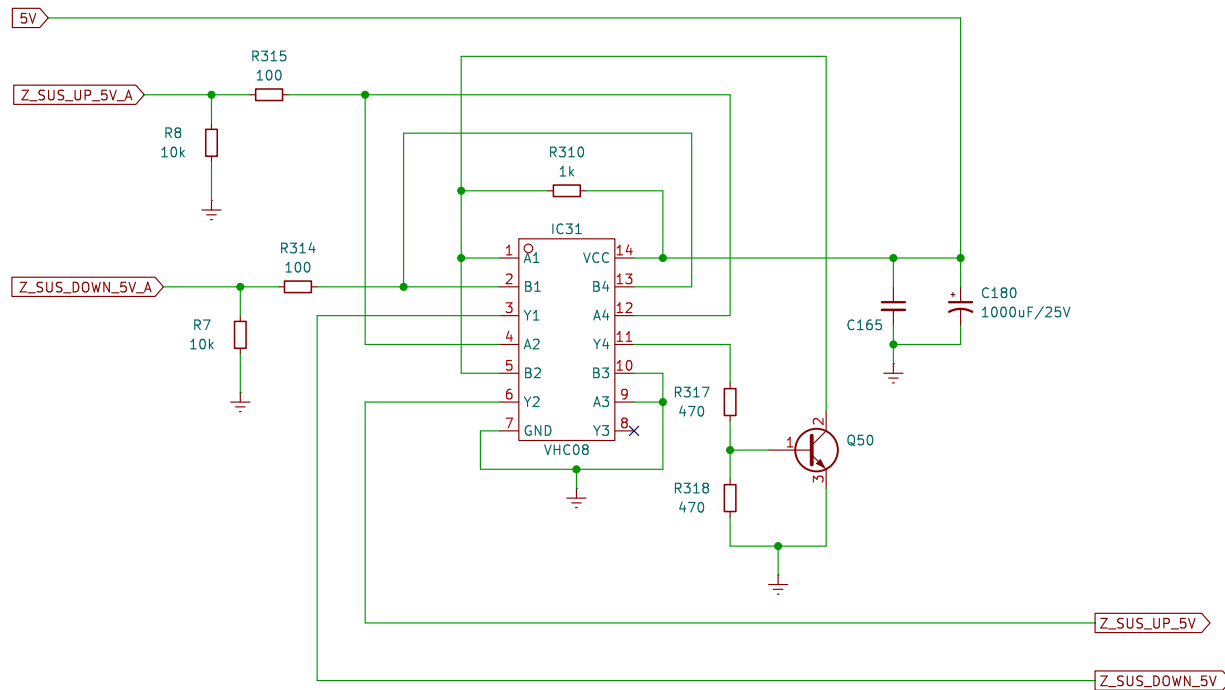
Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03 Rev: 1.0

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Rev: 1.0
Id: 3/11

Z PROTECTION



Z PROTECTION
Author: Fábio Pereira da Silva

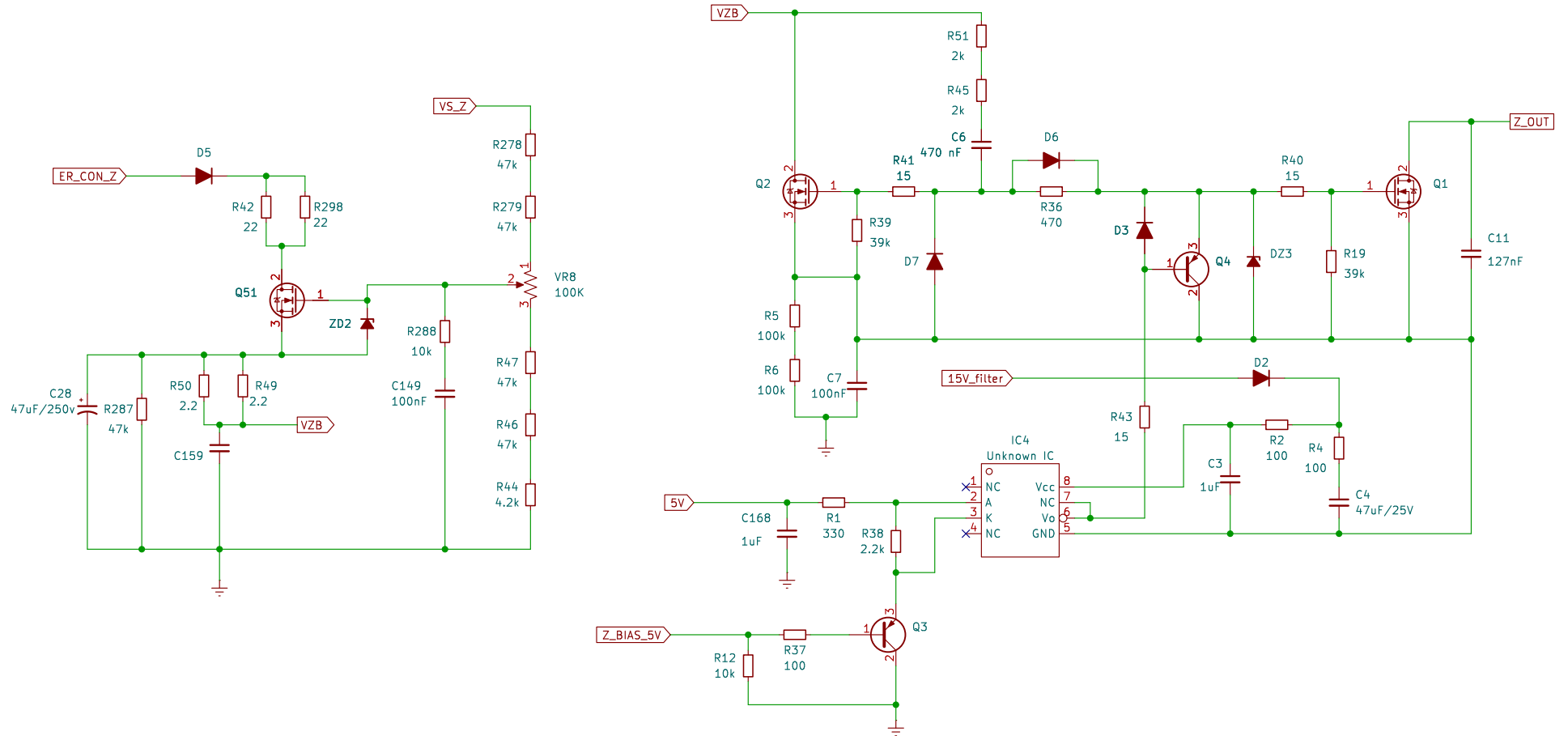
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Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03
KiCad E.D.A. 8.0.9

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VZB



VZB
Author: Fábio Pereira da Silva

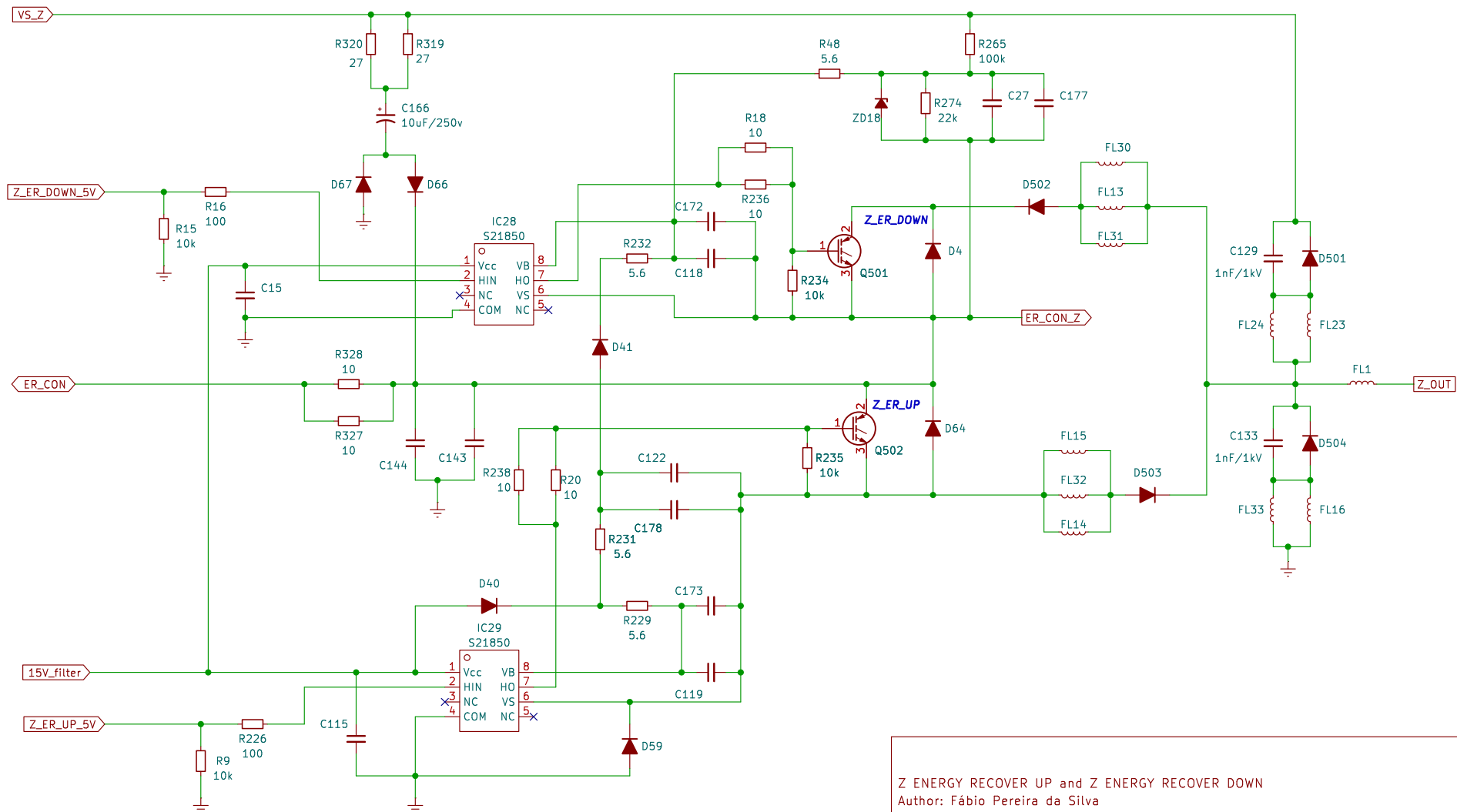
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Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03
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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

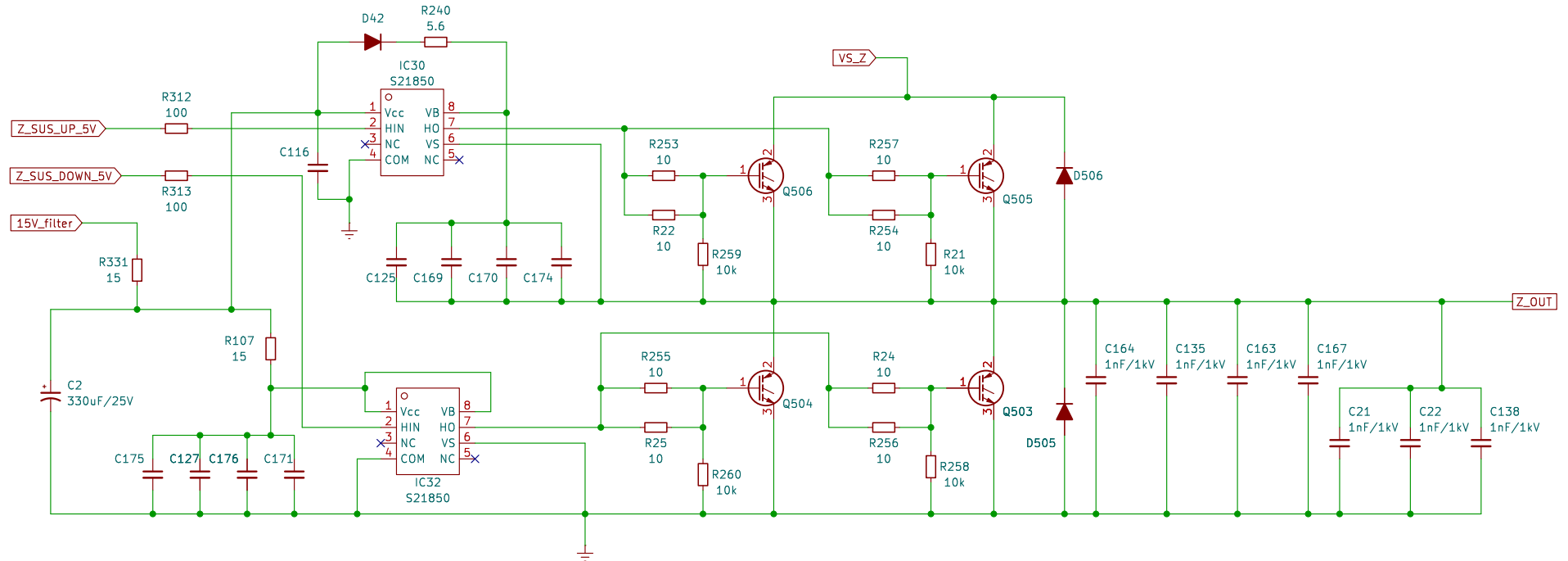
Date: 2025-04-03

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Rev: 1.0

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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

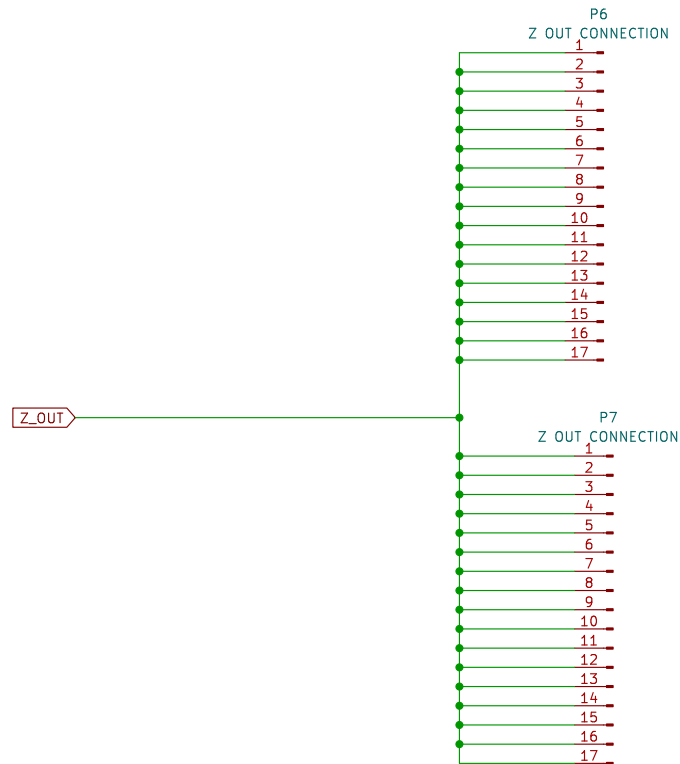
Date: 2025-04-03

Rev: 1.0

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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

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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

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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– 0L	6– 0.725	6– 0L
7– 0L	7– 0.722	7– 0L
8– 0	8– 0	8– 0
9– 0	9– 0	9– 0
10– 0L	10– 0.536	10– 0L
11– 0L	11– 0.524	11– 0L
12– 0L	12– 0.524	12– 0L

Measurements (P2)
Author: Fábio Pereira da Silva

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

Title: X BOARD LG PLASMA TV PANEL

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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