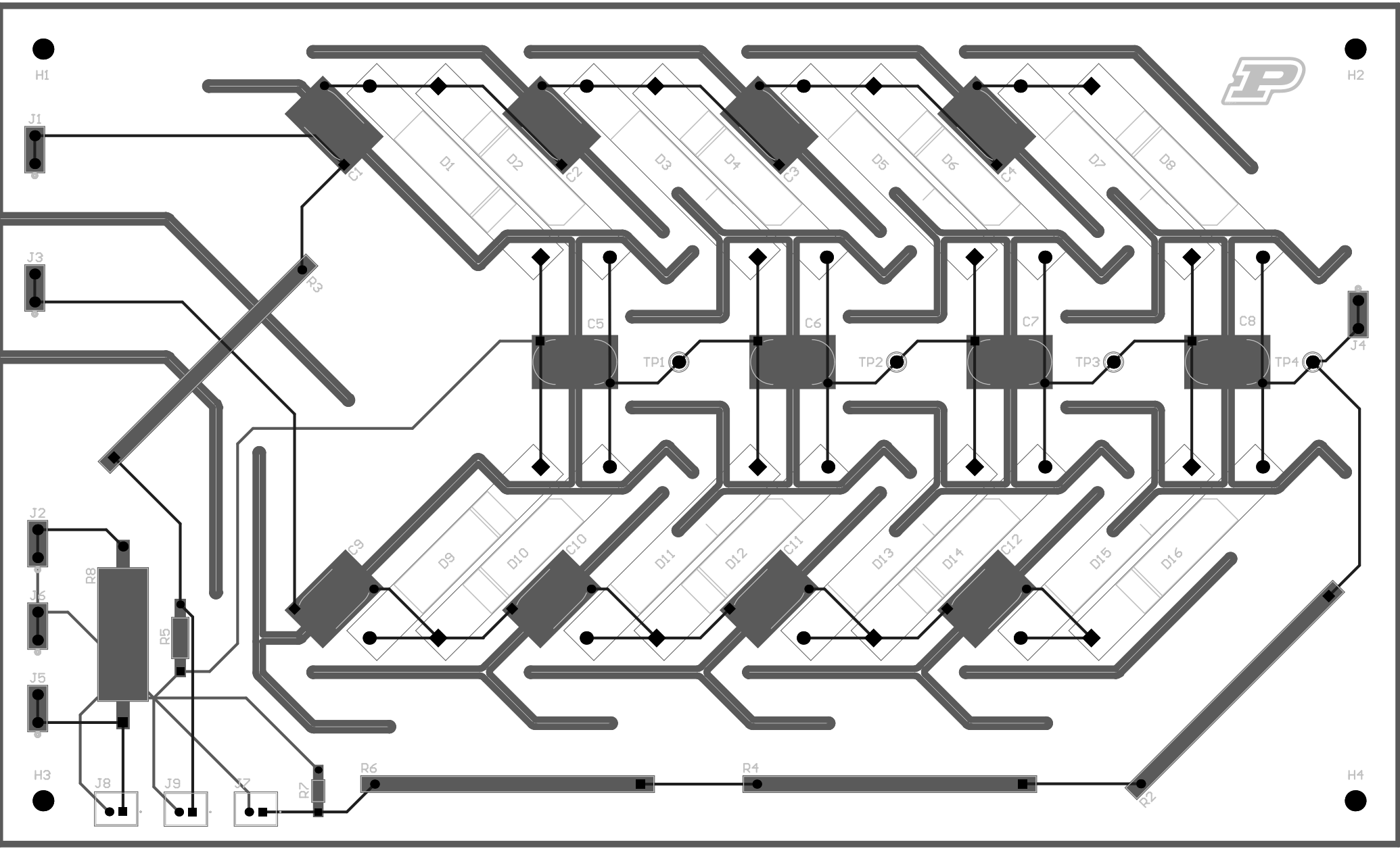


Title
PCB2: 8x Voltage Multiplier

| | | |
|------------------|----------------------------|------------------------|
| Size B | Date Nov 8, 2025 | Revision 1.1 |
|------------------|----------------------------|------------------------|

Drawn By
Christopher Campos



H1

H2

J1

J3

J2

J6

J5

H3

H4

J4

C1

D1

D2

C2

D3

D4

C3

D5

D6

C4

D7

D8

R3

C5

TP1

C6

TP2

C7

TP3

C8

TP4

C9

D9

D10

C10

D11

D12

C11

D13

D14

C12

D15

D16

R8

R5

R6

R4

R2

J8

J9

J7

R7

| Comment | Description | Designator | Footprint | LibRef | Quantity |
|----------------------------|--|--|----------------------------------|-------------------|----------|
| HVOC153Y6P102MEAX | HVOC 15KVDC 1000pF Â±20% Y6P BULK e3 | C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12 | CAP_HVOC_EA- 15X8X19-12p5_VIS | CMP-001-00085-4 | 12 |
| Diode | BY16 | D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16 | D7,3x22 | CMP-004-00031-3 | 16 |
| 1.25in Ceramic Standoff | | H1, H2, H3, H4 | New footprint 1 | CMP-00030-00004-3 | 4 |
| 1217861-1 | 250 FASTON,POB TAB,TOBR | J1, J2, J3, J4, J5, J6 | CONN_1217861-1_TEC | CMP-027-000000-5 | 6 |
| B2B-XH-A | | J7, J8, J9 | JST_B2B-XH-A | CMP-119-000000-2 | 3 |
| Res 300MΩ 2.5W | SM108033006FE 300MΩ 2.5W | R2, R4, R6 | RES_SM10803_OHM | CMP-009-00178-12 | 3 |
| SM108032005FE | 20MΩ 2.5W | R3 | RES_SM10803_OHM | CMP-009-00179-8 | 1 |
| RNF14FTD20K0 | 20kΩ 0.25W | R5 | STA_RNF14_STP | CMP-009-00180-4 | 1 |
| 150kΩ 0.25W | 150kΩ 0.25W | R7 | STA_RNMF14_STP | CMP-009-00182-4 | 1 |
| 100Ω 5W | 100Ω 5W | R8 | RES_45_OHM | CMP-009-00181-4 | 1 |
| 5011 | Test Point MultiPurpose THMH .445 Nylon 46 Insulated Blk PhosBronze/Silver | TP1, TP2, TP3, TP4 | TP_5011 | CMP-117-000000-1 | 4 |