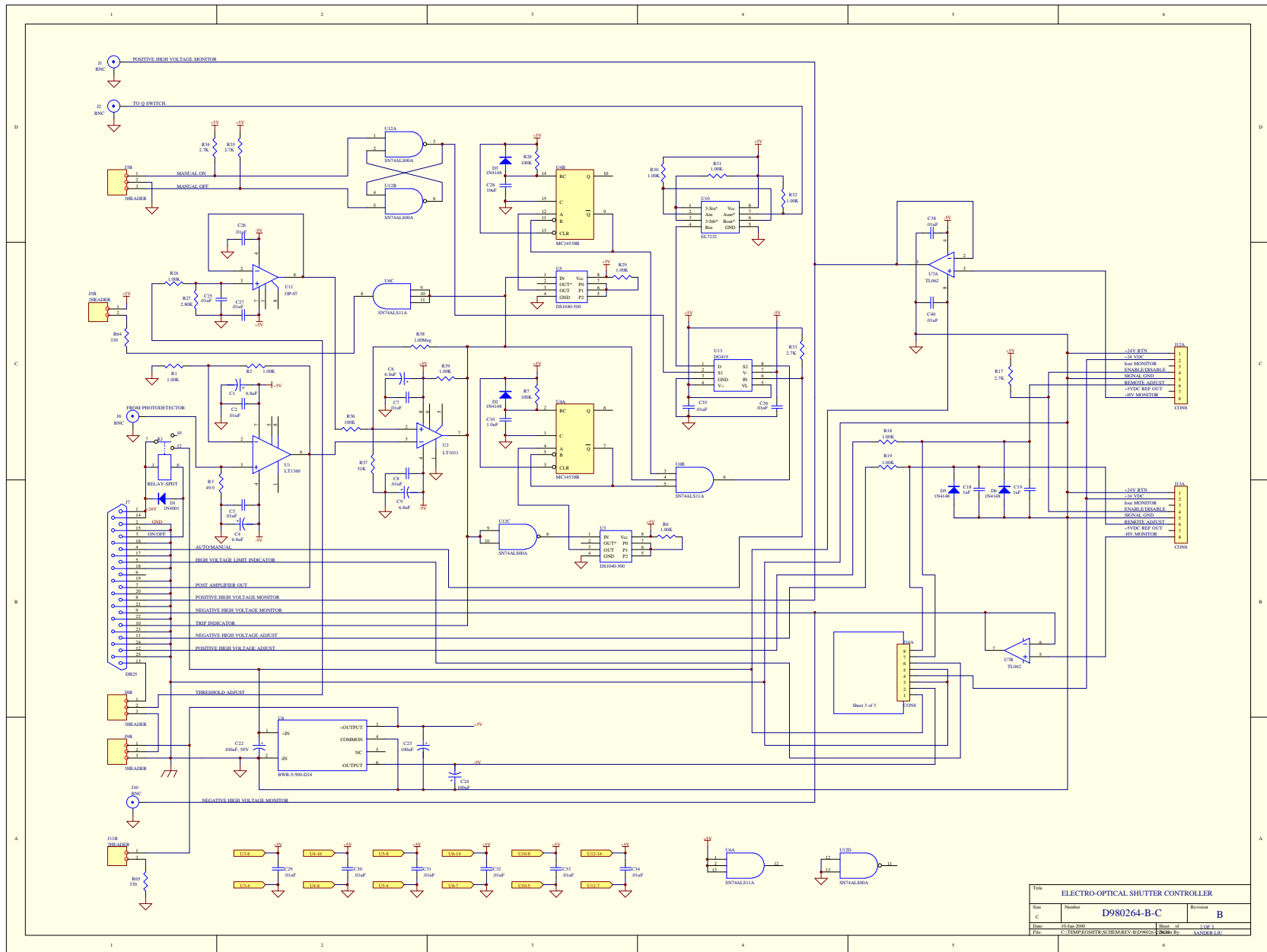
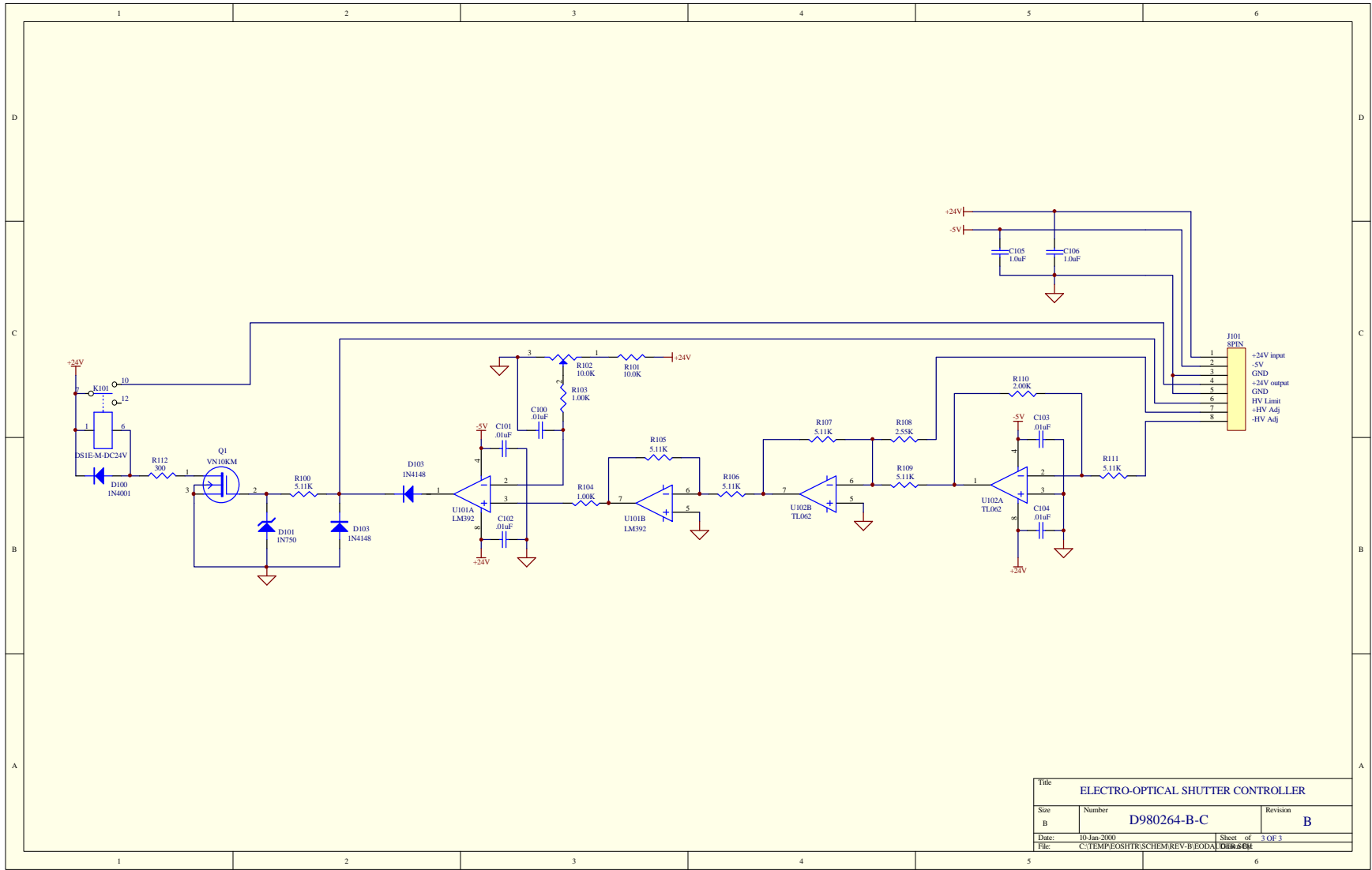


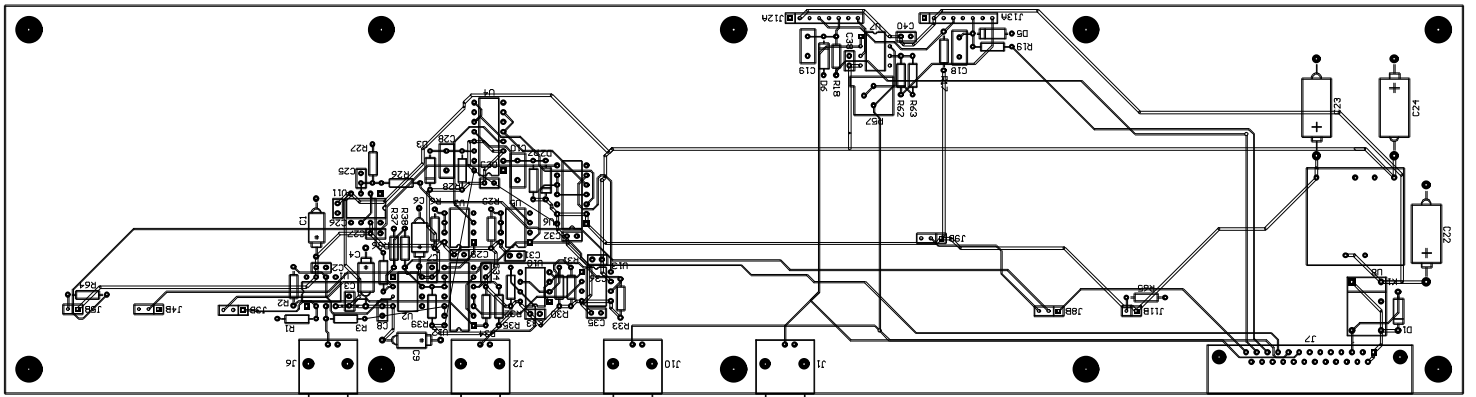
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|------------------------------------|------------|
| ELECTRO-OPTICAL SHUTTER CONTROLLER | |
| REV | 01 |
| DATE | 08/20/2014 |
| DESIGNED BY | ... |
| CHECKED BY | ... |
| APPROVED BY | ... |

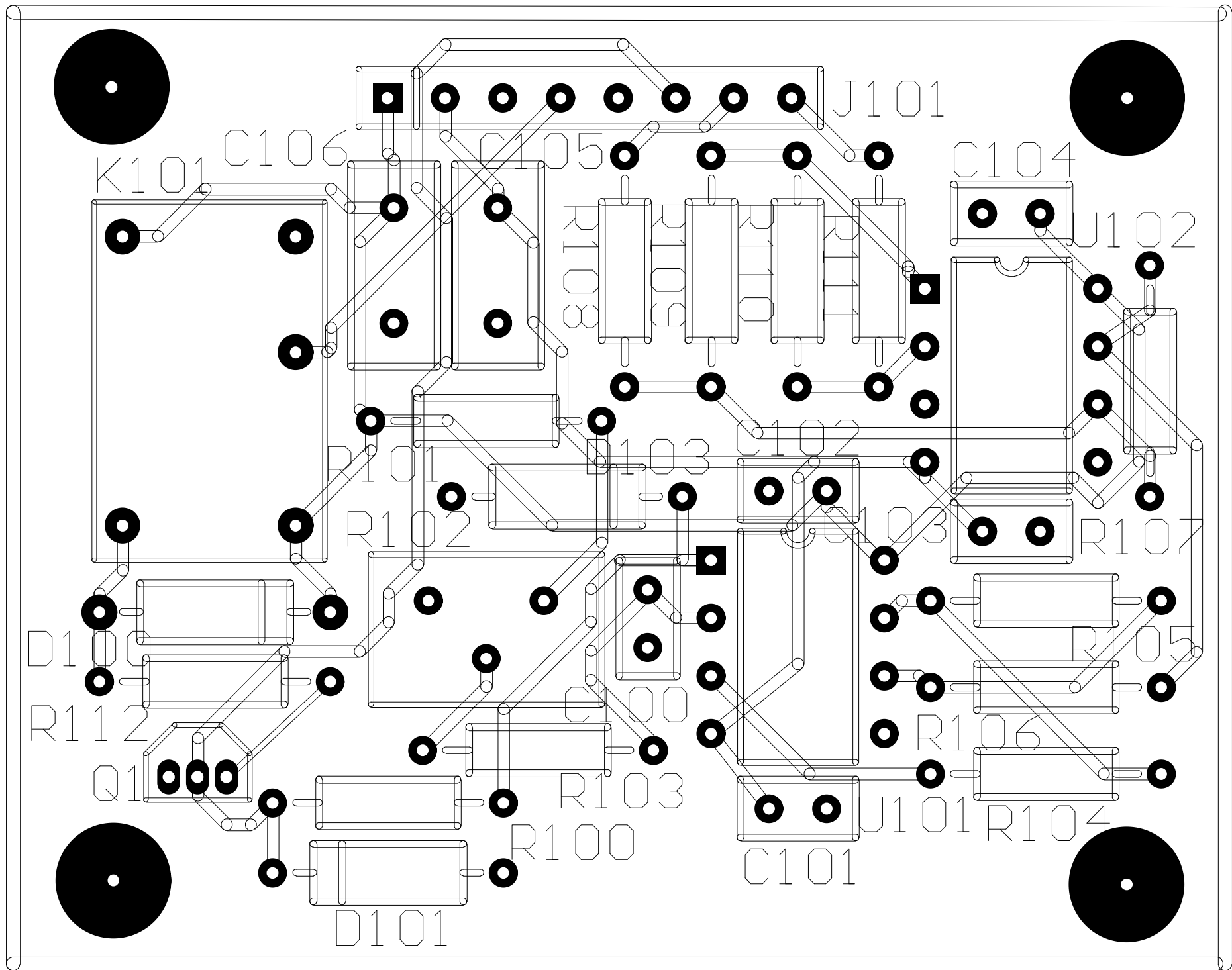


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| Project | ELECTRO-OPTICAL SHUTTER CONTROLLER | | Revision |
| Doc No | D980264-B-C | Sheet of | B |
| Date | 10 Jun 2010 | Drawn by | (Signature) |
| File | C:\TEMP\ESHT\SCHEM.REV-B.D980264 | Checked by | SANJEEV L |

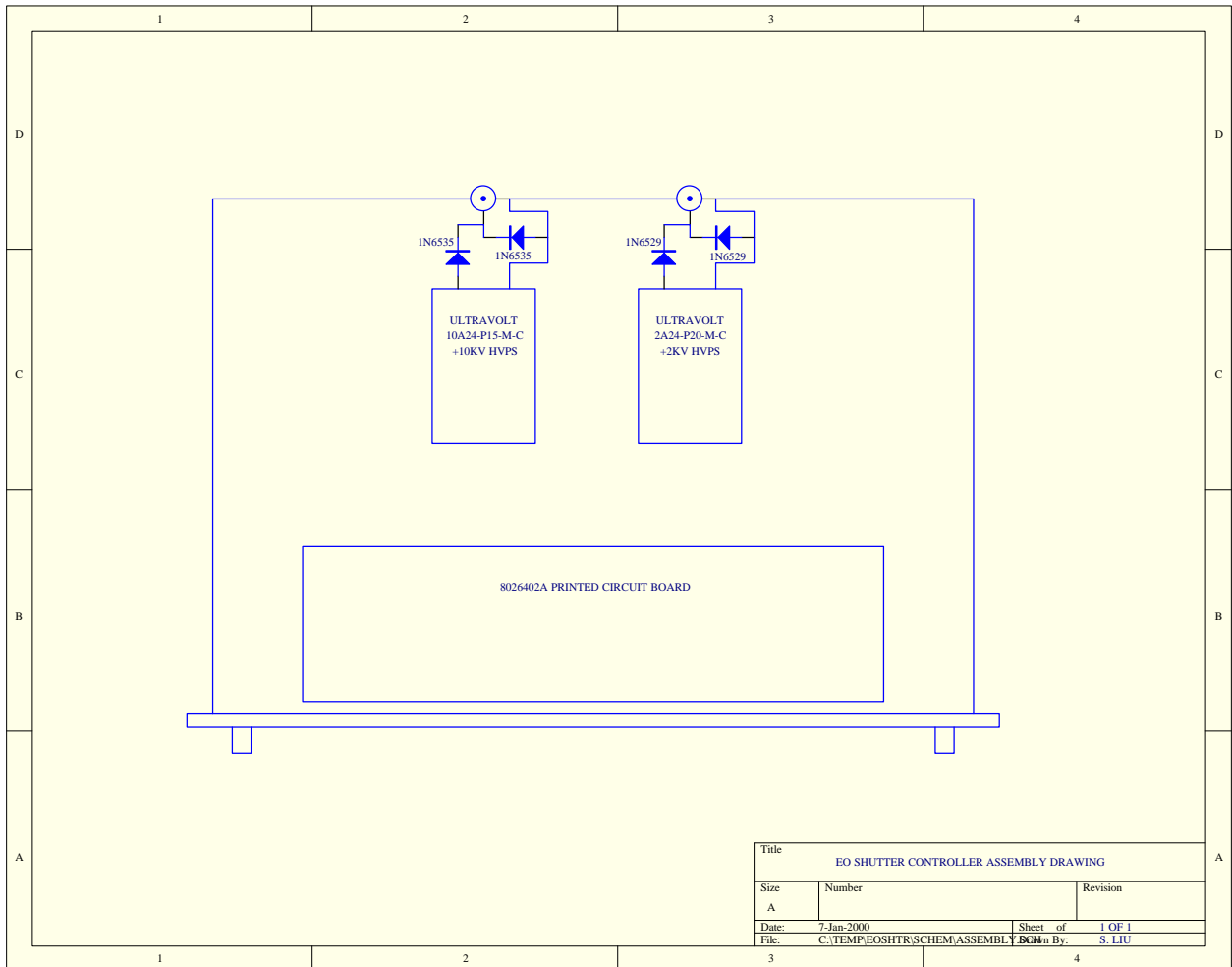


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| Title | | | ELECTRO-OPTICAL SHUTTER CONTROLLER | | |
| Size | Number | D980264-B-C | | Revision | B |
| B | | | | | |
| Date: | 10-Jan-2000 | Sheet of 3 OF 3 | | Date: 10-Jan-2000 | |
| File: | C:\TEMP\EOSHTR\SCHEM\REV-B\EODA | DataSheet | | Date: 10-Jan-2000 | |

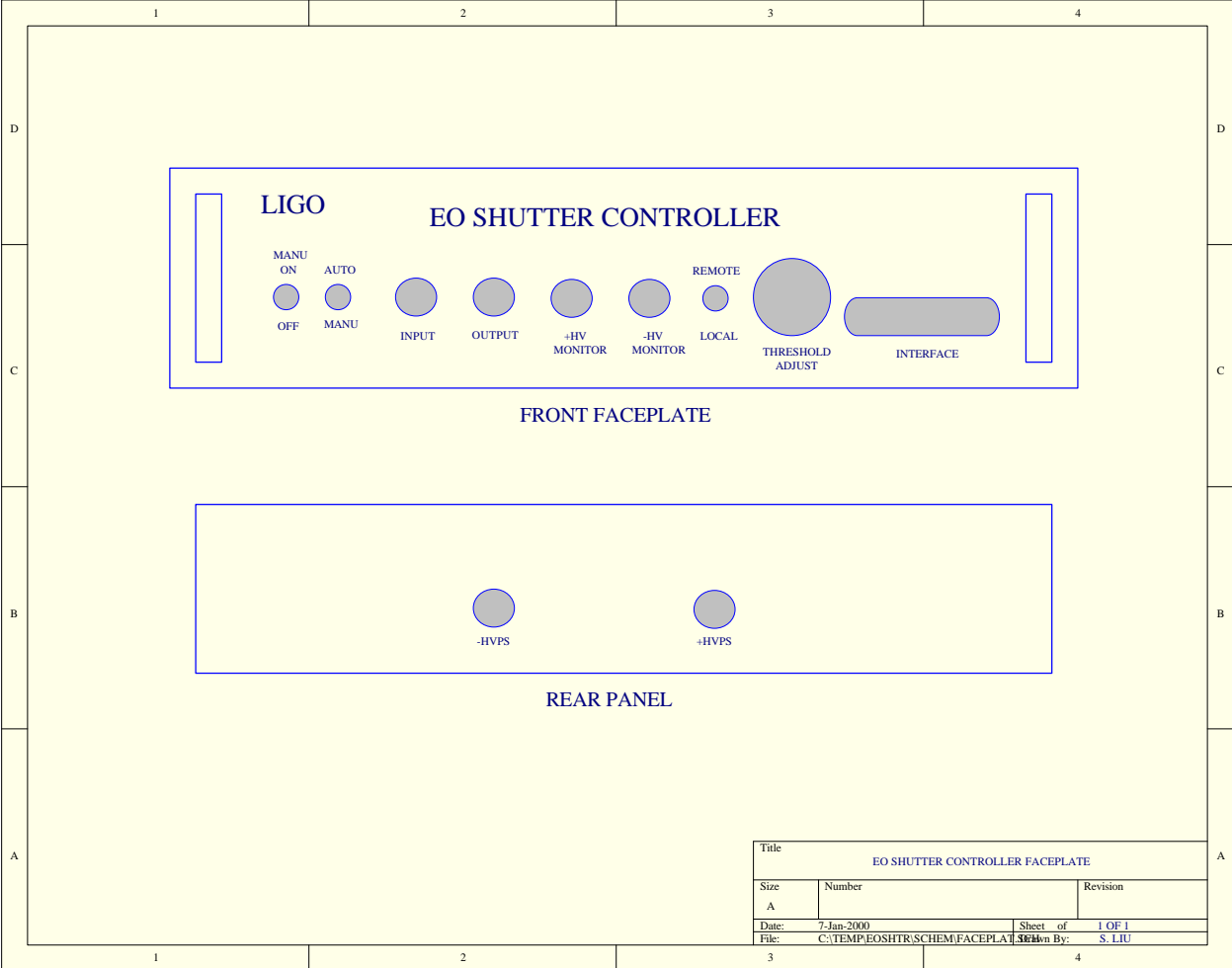




| NAME | DESCRIPTION | CONNECTOR | PIN# | TYPE |
|-------------------------------|------------------------|-----------|------|-----------|
| Positive High Voltage Monitor | Front Panel Test Point | J1 | | BNC |
| Output | To DEI GRX-10K-H | J2 | | BNC |
| Input | From Photodetector | J3 | | BNC |
| +24Vdc | Controller Power Input | J4 | 1 | DB25 |
| +24V Return | GND | J4 | 2 | DB25 |
| Remote Power Control | Logic 0 turns Power On | J4 | 3 | DB25 |
| Auto/Manu | Auto or Manual Select | J4 | 4 | DB25 |
| High Voltage Limit | HV Exceed Limit | J4 | 5 | DB25 |
| Pulser On/Off Control | Pulse On/Off Switch | J4 | 6 | DB25 |
| PA Output Monitor | To VME ADC | J4 | 7 | DB25 |
| +HV Monitor | To VME ADC | J4 | 8 | DB25 |
| -HV Monitor | To VME ADC | J4 | 9 | DB25 |
| Failure Indicator | To VME ADC/Logic | J4 | 10 | DB25 |
| -HV Adjust | From VME DAC | J4 | 11 | DB25 |
| +HV Adjust | From VME DAC | J4 | 12 | DB25 |
| Threshold Adjust | VME DAC/Front Panel | J4 | 13 | DB25 |
| +24Vdc | Controller Power Input | J4 | 14 | DB25 |
| +24Vdc Return | GND | J4 | 15 | DB25 |
| Earth GND | GND | J4 | 16 | DB25 |
| Earth GND | GND | J4 | 17 | DB25 |
| Earth GND | GND | J4 | 18 | DB25 |
| Earth GND | GND | J4 | 19 | DB25 |
| Earth GND | GND | J4 | 20 | DB25 |
| Earth GND | GND | J4 | 21 | DB25 |
| Earth GND | GND | J4 | 22 | DB25 |
| Earth GND | GND | J4 | 23 | DB25 |
| Earth GND | GND | J4 | 24 | DB25 |
| Earth GND | GND | J4 | 25 | DB25 |
| -HV Monitor | Front | J5 | | BNC |
| +24Vdc Return | +HVPS Input Power Rtn | J6 | 1 | AMP/Molex |
| +24Vdc | +HVPS Input Power | J6 | 2 | AMP/Molex |
| Iout Monitor | +HVPS Iout Monitor | J6 | 3 | AMP/Molex |
| Enable/Disable | +HVPS On/Off Control | J6 | 4 | AMP/Molex |
| Signal GND Return | GND | J6 | 5 | AMP/Molex |
| Remote Voltage Adjust | +HVPS Output Adjust | J6 | 6 | AMP/Molex |
| +5Vdc Reference Output | 5V Reference Output | J6 | 7 | AMP/Molex |
| +HVPS Output Monitor | +HV Output Monitor | J6 | 8 | AMP/Molex |
| +24Vdc Return | -HVPS Input Power Rtn | J7 | 1 | AMP/Molex |
| +24Vdc | -HVPS Input Power | J7 | 2 | AMP/Molex |
| Iout Monitor | -HVPS Iout Monitor | J7 | 3 | AMP/Molex |
| Enable/Disable | -HVPS On/Off | J7 | 4 | AMP/Molex |
| Signal GND Return | GND | J7 | 5 | AMP/Molex |
| Remote Voltage Adjust | -HVPS Output Adjust | J7 | 6 | AMP/Molex |
| +5Vdc Reference Output | 5V Reference Output | J7 | 7 | AMP/Molex |
| -HVPS Output Monitor | -HV Output Monitor | J7 | 8 | AMP/Molex |
| +HVPS | +HVPS Output | J8 | | SHV |
| -HVPS | -HVPS Output | J9 | | SHV |



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| Title | | |
| EO SHUTTER CONTROLLER ASSEMBLY DRAWING | | |
| Size | Number | Revision |
| A | | |
| Date: | 7-Jan-2000 | Sheet of 1 OF 1 |
| File: | C:\TEMP\EOSHTR\SCHEM\ASSEMBLY | Drawn By: S. LIU |



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|-------|-------------------------------|-----------|---------------------------------|--|--|
| Title | | | EO SHUTTER CONTROLLER FACEPLATE | | |
| Size | Number | Revision | | | |
| A | | | | | |
| Date: | 7-Jan-2000 | Sheet of | 1 OF 1 | | |
| File: | C:\TEMP\EOSHTR\SCHEM\FACEPLAT | Drawn By: | S. LIU | | |