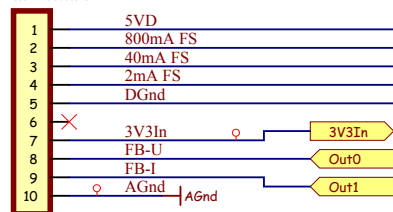
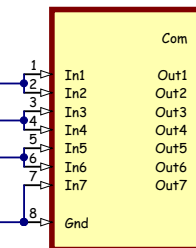


J1  
CON5x2  
855-M20-9700545



C1 10µF / 20V  
81-GRA21BC3HD10KCE1L

U1  
ULN2003V12PW  
995-ULN2003V12PWR



REL3A EE2-5-NU

REL2A EE2-5-NU

REL1A EE2-5-NU

LED3 SML-211YT  
755-SML-211YTR6

LED2 SML-211YT  
755-SML-211YTR6

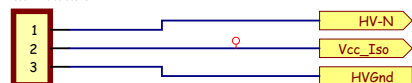
LED1 SML-211YT  
755-SML-211YTR6

Strich ==> bei Perforierung, bzw.  
blauer Punkt am Rand

J3  
CON2x1  
855-M20-9960245



J2  
CON3x1  
855-M20-9960345



Title  
**Connectors, Range Selector Relays**

Sheet 1 of 4

Variant:  
**[No Variations]**  
Revision:  
**1**

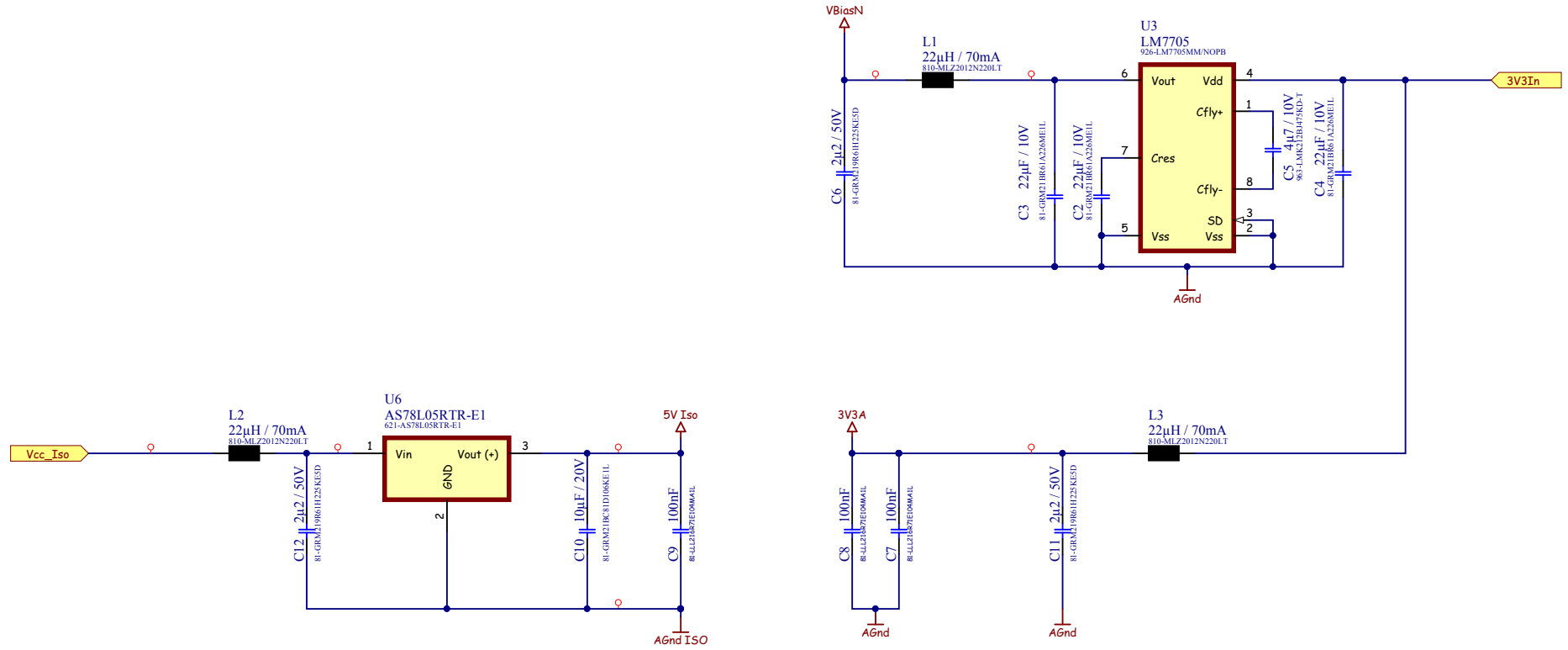
File: Connector.SchDoc

Created by:  
DI Gerhard Kreuzer  
Checked by:  
OWNERPARTID:-1

Number:  
**M4031.1**  
Date: 23.09.2015  
Time: 11:22:29

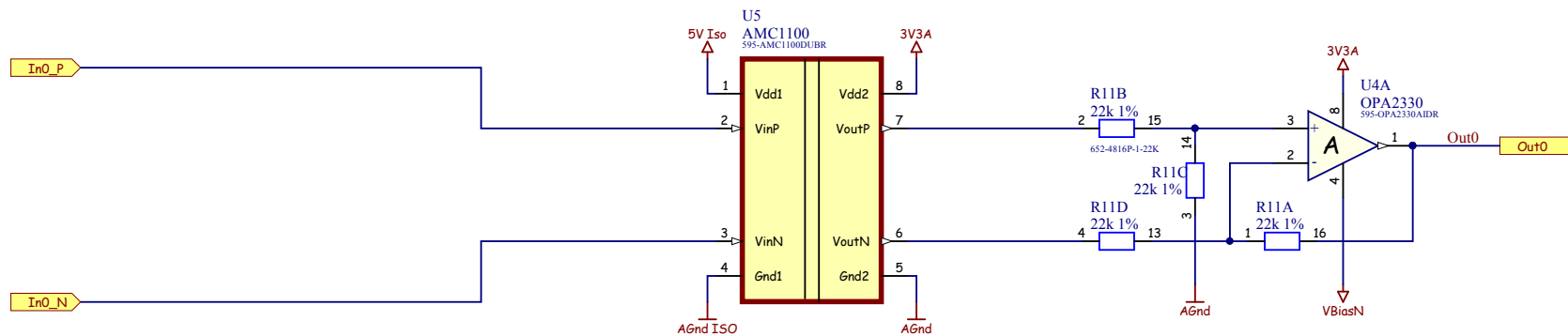
**lift**  
www.liftoff.at

Dep.: GeoMonitor  
Karlgasse 6  
A-3001 Tullinger Kogel  
Austria  
Tel: +43 2273 80222



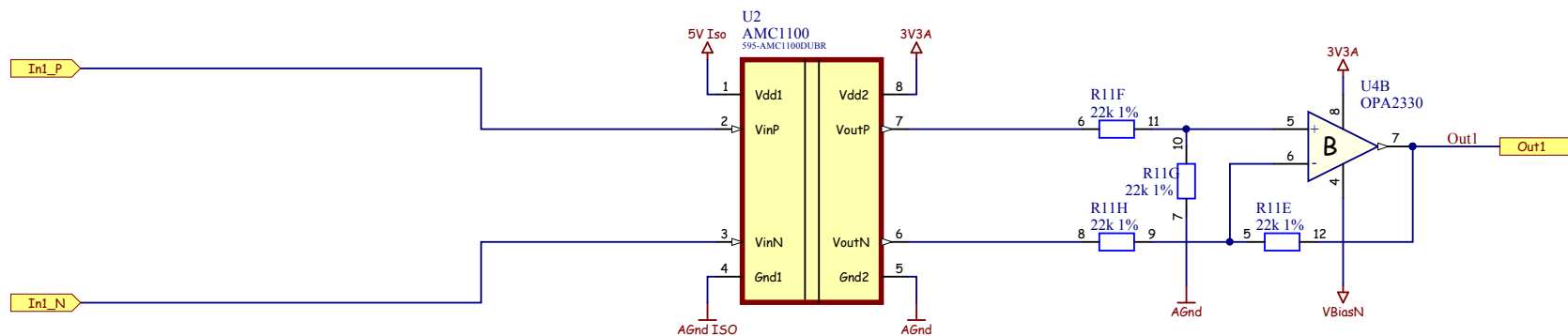
|                       |  |                             |                    |                  |                                                                                                                                                                                       |
|-----------------------|--|-----------------------------|--------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title                 |  | Variant:                    | Created by:        | Number:          | <br>Dep.: GeoMonitor<br>Karlsgasse 6<br>A-3001 Tullinger Kogel<br>Austria<br>Tel: +43 2273 80222 |
| <i>Local Supplies</i> |  | [No Variations]             | DI Gerhard Kreuzer | <b>M4031.2</b>   |                                                                                                                                                                                       |
|                       |  | Revision:                   | Checked by:        | Date: 23.09.2015 |                                                                                                                                                                                       |
|                       |  | <b>V 1.0</b>                | OWNERPARTID=-1     | Time: 11:22:29   |                                                                                                                                                                                       |
| Sheet 2 of 4          |  | File: Local Supplies.SchDoc |                    |                  |                                                                                                                                                                                       |



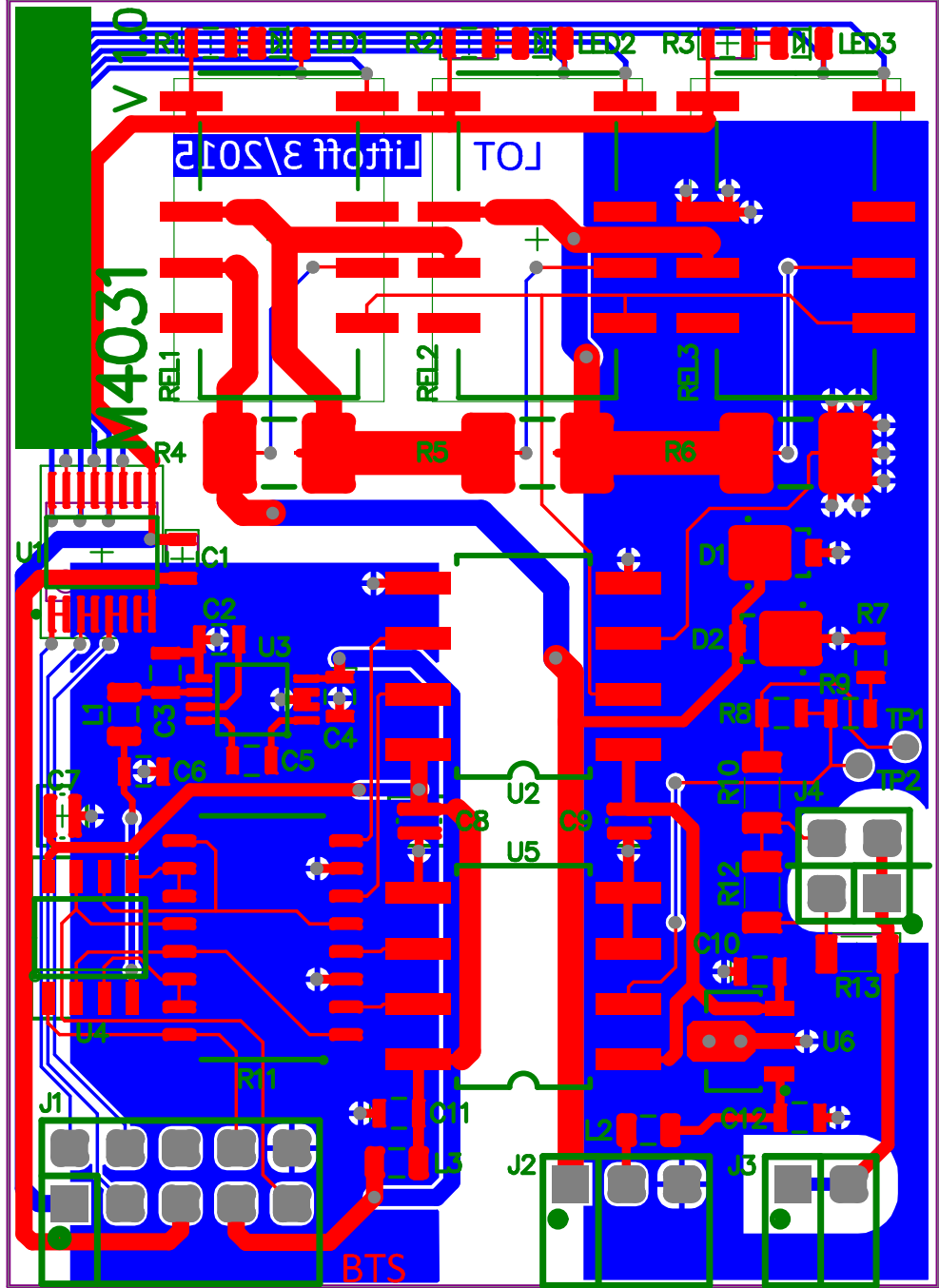


$g = 8$

$g = 1$



|                                |  |                             |                                   |                    |                                                                                       |                                                                                              |                |
|--------------------------------|--|-----------------------------|-----------------------------------|--------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------|
| Title<br><i>Iso Amplifiers</i> |  | Variant:<br>[No Variations] | Created by:<br>DI Gerhard Kreuzer | Number:<br>M4031.4 |  | Dep.: GeoMonitor<br>Karlsgasse 6<br>A-3001 Tulbingen Kogel<br>Austria<br>Tel: +43 2273 80222 |                |
|                                |  | Revision:<br>V 1.0          | Checked by:<br>OWNERPARTID=-1     | Date: 23.09.2015   |                                                                                       |                                                                                              |                |
| Sheet 4 of 4                   |  | File: Iso Amplifiers.SchDoc |                                   | Time: 11:22:30     |                                                                                       |                                                                                              | www.liftoff.at |
|                                |  |                             |                                   |                    |                                                                                       |                                                                                              |                |



| Comment       | Description                            | Designator       | Footprint                        | LibRef          | Quantity |
|---------------|----------------------------------------|------------------|----------------------------------|-----------------|----------|
| 10µF / 20V    | Alu Elektrolyt Capacitor Low ESR       | C1, C10          | SMD C 2012 (0805)                | CERCO           | 2        |
| 22µF / 10V    | Ceramic Capacitor                      | C2, C3, C4       | SMD C 2012 (0805)                | CERCO           | 3        |
| 4µ7 / 10V     | Alu Elektrolyt Capacitor Low ESR       | C5               | SMD C 2012 (0805)                | CERCO           | 1        |
| 2µ2 / 50V     | Ceramic Capacitor                      | C6, C11, C12     | SMD C 2012 (0805)                | CERCO           | 3        |
| 100nF         | Ceramic Capacitor                      | C7, C8, C9       | CC1220-0508 (reversed)           | CERCO           | 3        |
| ESH2PDHM3/84A | Schottky Diode                         | D1, D2           | DO220AA SMP Diode                | DIODE SCHOTTKY  | 2        |
| CON5x2        | Connector 10 Pin                       | J1               | CONN10 right angle               | CON10           | 1        |
| CON3x1        |                                        | J2               | CONN3x1 right Angle              | CON3            | 1        |
| CON2x1        |                                        | J3               | CONN2x1 right Angle              | CON2            | 1        |
| CON4          |                                        | J4               | CONN4                            | CON4            | 1        |
| 22µH / 70mA   | Drossel                                | L1, L2, L3       | 0805                             | L               | 3        |
| SML-211YT     | Led                                    | LED1, LED2, LED3 | 0805 LED                         | LED             | 3        |
| 1k            | Resistor 1/10 Watt                     | R1, R2, R3       | SMD R 2012 (0805)                | R               | 3        |
| 100 1W 1%     | Shunt 4-Wire                           | R4               | 6332 metric (2512 mil) 4 wire in | R4WireSmall     | 1        |
| 4R99 1W 1%    | Shunt 4-Wire                           | R5               | 6332 metric (2512 mil) 4 wire in | R4WireSmall     | 1        |
| R250 2W 1%    | Shunt 4-Wire                           | R6               | 6332 metric (2512 mil) 4 wire in | R4WireSmall     | 1        |
| 2R7 1%        | Resistor 1/4 Watt                      | R7               | SMD R 2012 (0805)                | R               | 1        |
| 100           | Resistor 1/4 Watt                      | R8               | SMD R 2012 (0805)                | R               | 1        |
| 330 1%        | Resistor 1/4 Watt                      | R9               | SMD R 2012 (0805)                | R               | 1        |
| 220k 1%       | Resistor 1/4 Watt                      | R10, R12, R13    | SMD R 3216 (1206)                | R               | 3        |
| 22k 1%        | Resistorarray 8 x single               | R11              | SOP16 220 medium body            | RX8Single       | 1        |
| EE2-5-NU      | Relay 2 Umschalter                     | REL1, REL2, REL3 | EE2xNU                           | EE2oneCoil      | 3        |
|               | Testpoint                              | TP1, TP2         | Mini_TP                          | TP              | 2        |
| ULN2003V12PW  | 7 Channel Relay Driver                 | U1               | XPT-TSOP16_N                     | UNL2003V12      | 1        |
| AMC1100       | Fully-Differential Isolation Amplifier | U2, U5           | DIP8 - SMD Gull Wing             | AMC1100         | 2        |
| LM7705        | Low Noise Negative Bias Generator      | U3               | S-PDSO-G8                        | LM7705          | 1        |
| OPA2330       |                                        | U4               | SOP8                             | OP Simple Dual  | 1        |
| AS78L05RTR-E1 | Voltageregulator positiv               | U6               | SOT89                            | VOLTREG POSITIV | 1        |
|               |                                        |                  |                                  |                 |          |