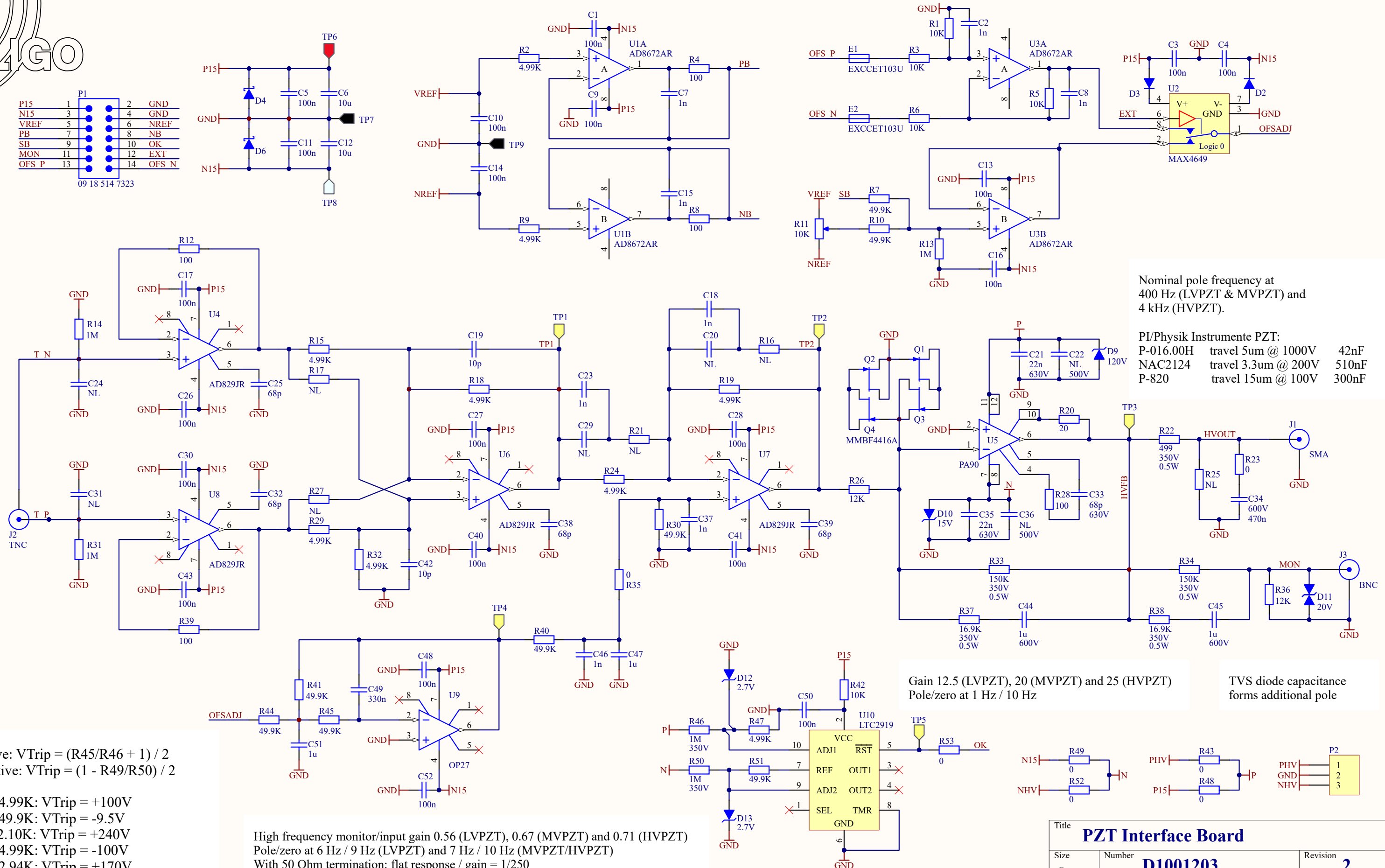




| | | | |
|-------|----|----|-------|
| P15 | 1 | 2 | GND |
| N15 | 3 | 4 | GND |
| VREF | 5 | 6 | NREF |
| PB | 7 | 8 | NB |
| SB | 9 | 10 | OK |
| MON | 11 | 12 | EXT |
| OFS P | 13 | 14 | OFS N |

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Nominal pole frequency at 400 Hz (LVPZT & MVPZT) and 4 kHz (HVPZT).

PI/Physik Instrumente PZT:
 P-016.00H travel 5um @ 1000V 42nF
 NAC2124 travel 3.3um @ 200V 510nF
 P-820 travel 15um @ 100V 300nF

Gain 12.5 (LVPZT), 20 (MVPZT) and 25 (HVPZT)
 Pole/zero at 1 Hz / 10 Hz

TVS diode capacitance forms additional pole

Positive: $V_{Trip} = (R45/R46 + 1) / 2$
 Negative: $V_{Trip} = (1 - R49/R50) / 2$

R46=4.99K: $V_{Trip} = +100V$
 R50=49.9K: $V_{Trip} = -9.5V$
 P46=2.10K: $V_{Trip} = +240V$
 R50=4.99K: $V_{Trip} = -100V$
 R46=2.94K: $V_{Trip} = +170V$

High frequency monitor/input gain 0.56 (LVPZT), 0.67 (MVPZT) and 0.71 (HVPZT)
 Pole/zero at 6 Hz / 9 Hz (LVPZT) and 7 Hz / 10 Hz (MVPZT/HVPZT)
 With 50 Ohm termination: flat response / gain = 1/250

| | | |
|----------------------------|-------------------------------------|-----------------------|
| Title | | |
| PZT Interface Board | | |
| Size | Number | Revision |
| B | D1001203 | 2 |
| Date: | 4/13/2017 | Sheet 1 of 1 |
| File: | D:\Users\...\PZTDriverBoard1.SchDoc | Drawn By: Daniel Sigg |