

| Squeezer Controls Chassis 2  |        | Left Rail |        |        |         |       |         |     |
|------------------------------|--------|-----------|--------|--------|---------|-------|---------|-----|
| Name                         | Color  | Rail      | Module | Number | Channel | Type  | Adapter | Pin |
| <b>Power</b>                 |        |           |        |        |         |       |         |     |
| 24V                          | violet | L         | OMRON  | DC_1   | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | L         | OMRON  | DC_1   | 0V      | P     | TBLOCK  |     |
| 24V                          | violet | L         | EK1101 | 0      | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | L         | EK1101 | 0      | 0V      | P     | TBLOCK  |     |
| 5V_1                         | red    | L         | EK1101 | 0      | +       | P     | DC_1    | +V  |
| 5VRET_1                      | black  | L         | EK1101 | 0      | -       | P     | DC_1    | -V  |
| 24V                          | violet | L         | EL9410 | 11     | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | L         | EL9410 | 11     | 0V      | P     | TBLOCK  |     |
| 5V_1                         | red    | L         | EL9410 | 11     | +       | P     | DC_1    | +V  |
| 5VRET_1                      | black  | L         | EL9410 | 11     | -       | P     | DC_1    | -V  |
| 5V_2                         | red    | L         | EL9190 | 17     | +       | P     | DC_2    | +V  |
| 5VRET_2                      | black  | L         | EL9190 | 17     | -       | P     | DC_2    | -V  |
| 24V                          | violet | L         | OMRON  | DC_2   | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | L         | OMRON  | DC_2   | 0V      | P     | TBLOCK  |     |
| <b>Coupler</b>               |        |           |        |        |         |       |         |     |
| Input                        | CAT5   | L         | EK1101 | 0      | X2      | Comm. | IN      |     |
| Output                       | CAT5   | L         | EK1101 | 0      | X2      | Comm. | M/O     | X1  |
| <b>Common Mode Servo B</b>   |        |           |        |        |         |       |         |     |
| Input monitor +              | green  | L         | EL3104 | 1      | +I1     | AI    | 9       | 9   |
| Input monitor -              | white  | L         | EL3104 | 1      | -I1     | AI    | 9       | 28  |
| Monitor at split +           | green  | L         | EL3104 | 1      | +I2     | AI    | 9       | 10  |
| Monitor at split -           | white  | L         | EL3104 | 1      | -I2     | AI    | 9       | 29  |
| Fast monitor +               | green  | L         | EL3104 | 1      | +I3     | AI    | 9       | 11  |
| Fast monitor -               | white  | L         | EL3104 | 1      | -I3     | AI    | 9       | 30  |
| Slow path feedback monitor + | green  | L         | EL3104 | 1      | +I4     | AI    | 9       | 12  |
| Slow path feedback monitor - | white  | L         | EL3104 | 1      | -I4     | AI    | 9       | 31  |
| 5VRET_1                      | black  | L         | EL3102 | 2      | COM     | P     | DC_1    | -V  |
| Slow monitor +               | green  | L         | EL3102 | 2      | +I1     | AI    | 9       | 13  |
| Slow monitor -               | white  | L         | EL3102 | 2      | -I1     | AI    | 9       | 32  |
|                              | green  | L         | EL3102 | 2      | +I2     | AI    |         |     |
|                              | white  | L         | EL3102 | 2      | -I2     | AI    |         |     |
| Common path offset +         | blue   | L         | EL4134 | 3      | O1      | AO    | 9       | 15  |
| Common path offset -         | yellow | L         | EL4134 | 3      | COM     | AO    | 9       | 34  |
| Slow path offset +           | blue   | L         | EL4134 | 3      | O2      | AO    | 9       | 16  |
| Slow path offset -           | yellow | L         | EL4134 | 3      | COM     | AO    | 9       | 35  |
| Slow path output offset +    | blue   | L         | EL4134 | 3      | O1      | AO    | 9       | 17  |
| Slow path output offset -    | yellow | L         | EL4134 | 3      | COM     | AO    | 9       | 36  |
|                              | blue   | L         | EL4134 | 3      | O2      | AO    |         |     |
|                              | yellow | L         | EL4134 | 3      | COM     | AO    |         |     |
| 5VRET_1                      | black  | L         | EL1124 | 4      | -       | P     | 9       | 19  |
| Fast path limits reached     | brown  | L         | EL1124 | 4      | I1      | BI    | 9       | 6   |
| OK                           | brown  | L         | EL1124 | 4      | I2      | BI    | 9       | 25  |
|                              | brown  | L         | EL1124 | 4      | I3      | BI    |         |     |
|                              | brown  | L         | EL1124 | 4      | I4      | BI    |         |     |
| Gain slider fast path bit 0  | orange | L         | EL2124 | 5      | O1      | BO    | 9       | 1   |
| Gain slider fast path bit 1  | orange | L         | EL2124 | 5      | O2      | BO    | 9       | 20  |
| Gain slider fast path bit 2  | orange | L         | EL2124 | 5      | O3      | BO    | 9       | 2   |
| Gain slider fast path bit 3  | orange | L         | EL2124 | 5      | O4      | BO    | 9       | 21  |
| 5VRET_1                      | black  | L         | EL2124 | 6      | -       | P     | 9       | 4   |
| Gain slider fast path bit 4  | orange | L         | EL2124 | 6      | O1      | BO    | 9       | 3   |
| Gain slider fast path bit 5  | orange | L         | EL2124 | 6      | O2      | BO    | 9       | 22  |
| Excitation B enable          | orange | L         | EL2124 | 6      | O3      | BO    | 9       | 23  |
| Option B enable              | orange | L         | EL2124 | 6      | O4      | BO    | 9       | 5   |
| LE                           | orange | L         | EL2124 | 7      | O1      | BO    | 9       | 24  |
| Excitation slow path         | orange | L         | EL2124 | 7      | O2      | BO    | 9       | 7   |
| Polarity input 1 path        | orange | L         | EL2124 | 7      | O3      | BO    | 9       | 26  |
| Polarity input 2 path        | orange | L         | EL2124 | 7      | O4      | BO    | 9       | 8   |
| 5VRET_1                      | black  | L         | EL2124 | 8      | -       | P     | 10      | 4   |
| Gain slider input 1 bit 0    | orange | L         | EL2124 | 8      | O1      | BO    | 10      | 1   |
| Gain slider input 1 bit 1    | orange | L         | EL2124 | 8      | O2      | BO    | 10      | 20  |
| Gain slider input 1 bit 2    | orange | L         | EL2124 | 8      | O3      | BO    | 10      | 2   |

|                                     |        |   |        |    |    |    |    |    |
|-------------------------------------|--------|---|--------|----|----|----|----|----|
| Gain slider input 1 bit 3           | orange | L | EL2124 | 8  | O4 | BO | 10 | 21 |
| Gain slider input 1 bit 4           | orange | L | EL2124 | 9  | O1 | BO | 10 | 3  |
| Gain slider input 1 bit 5           | orange | L | EL2124 | 9  | O2 | BO | 10 | 22 |
| Gain slider input 2 bit 0           | orange | L | EL2124 | 9  | O3 | BO | 10 | 23 |
| Gain slider input 2 bit 1           | orange | L | EL2124 | 9  | O4 | BO | 10 | 5  |
| Gain slider input 2 bit 2           | orange | L | EL2124 | 10 | O1 | BO | 10 | 24 |
| Gain slider input 2 bit 3           | orange | L | EL2124 | 10 | O2 | BO | 10 | 6  |
| Gain slider input 2 bit 4           | orange | L | EL2124 | 10 | O3 | BO | 10 | 25 |
| Gain slider input 2 bit 5           | orange | L | EL2124 | 10 | O4 | BO | 10 | 7  |
| Input 1 enable                      | orange | L | EL2124 | 12 | O1 | BO | 10 | 8  |
| Input 2 enable                      | orange | L | EL2124 | 12 | O2 | BO | 10 | 27 |
| Output 1 switch                     | orange | L | EL2124 | 12 | O3 | BO | 10 | 9  |
| Boost stages bit 0                  | orange | L | EL2124 | 12 | O4 | BO | 10 | 28 |
| Boost stages bit 1                  | orange | L | EL2124 | 13 | O1 | BO | 10 | 10 |
| Compensation enable                 | orange | L | EL2124 | 13 | O2 | BO | 10 | 29 |
| Excitation A enable                 | orange | L | EL2124 | 13 | O3 | BO | 10 | 30 |
| Option A enable                     | orange | L | EL2124 | 13 | O4 | BO | 10 | 12 |
| SVRET_1                             | black  | L | EL2124 | 14 | –  | P  | 10 | 33 |
| Polarity slow path                  | orange | L | EL2124 | 14 | O1 | BO | 10 | 31 |
| Common filter enable                | orange | L | EL2124 | 14 | O2 | BO | 10 | 13 |
| Fast path enable                    | orange | L | EL2124 | 14 | O3 | BO | 10 | 32 |
| Fast path polarity                  | orange | L | EL2124 | 14 | O4 | BO | 10 | 14 |
| Slow path option enable             | orange | L | EL2124 | 15 | O1 | BO | 10 | 15 |
| Bypass enable                       | orange | L | EL2124 | 15 | O2 | BO | 10 | 34 |
| Slow output offset +5V fixed        | orange | L | EL2124 | 15 | O3 | BO | 10 | 16 |
| Slow output offset enable           | orange | L | EL2124 | 15 | O4 | BO | 10 | 35 |
| Slow path compensation enable       | orange | L | EL2124 | 16 | O1 | BO | 10 | 17 |
| Slow path boost enable              | orange | L | EL2124 | 16 | O2 | BO | 10 | 36 |
| Slow path filter enable             | orange | L | EL2124 | 16 | O3 | BO | 10 | 37 |
| Fast path limiter enable            | orange | L | EL2124 | 16 | O4 | BO | 10 | 19 |
| <b>Delay Line Phase Shifter C/D</b> |        |   |        |    |    |    |    |    |
| SVRET_2                             | black  | L | EL2124 | 18 | –  | P  | 11 | 14 |
| Bit 0/A                             | orange | L | EL2124 | 18 | O1 | BO | 11 | 1  |
| Bit 1/A                             | orange | L | EL2124 | 18 | O2 | BO | 11 | 2  |
| Bit 2/A                             | orange | L | EL2124 | 18 | O3 | BO | 11 | 3  |
| Bit 3/A                             | orange | L | EL2124 | 18 | O4 | BO | 11 | 4  |
| Bit 4/A                             | orange | L | EL2124 | 19 | O1 | BO | 11 | 5  |
| Bit 5/A                             | orange | L | EL2124 | 19 | O2 | BO | 11 | 6  |
| Bit 6/A                             | orange | L | EL2124 | 19 | O3 | BO | 11 | 7  |
| Bit 7/A                             | orange | L | EL2124 | 19 | O4 | BO | 11 | 8  |
| Bit 8/A                             | orange | L | EL2124 | 20 | O1 | BO | 11 | 9  |
| LE/A                                | orange | L | EL2124 | 20 | O2 | BO | 11 | 10 |
| Bit 0/B                             | orange | L | EL2124 | 20 | O3 | BO | 12 | 1  |
| Bit 1/B                             | orange | L | EL2124 | 20 | O4 | BO | 12 | 2  |
| SVRET_2                             | black  | L | EL2124 | 21 | –  | P  | 12 | 14 |
| Bit 2/B                             | orange | L | EL2124 | 21 | O1 | BO | 12 | 3  |
| Bit 3/B                             | orange | L | EL2124 | 21 | O2 | BO | 12 | 4  |
| Bit 4/B                             | orange | L | EL2124 | 21 | O3 | BO | 12 | 5  |
| Bit 5/B                             | orange | L | EL2124 | 21 | O4 | BO | 12 | 6  |
| Bit 6/B                             | orange | L | EL2124 | 22 | O1 | BO | 12 | 7  |
| Bit 7/B                             | orange | L | EL2124 | 22 | O2 | BO | 12 | 8  |
| Bit 8/B                             | orange | L | EL2124 | 22 | O3 | BO | 12 | 9  |
| LE/B                                | orange | L | EL2124 | 22 | O4 | BO | 12 | 10 |

| Squeezer Controls Chassis 2  |        |      |        | Middle Rail |         |       |         |     |
|------------------------------|--------|------|--------|-------------|---------|-------|---------|-----|
| Name                         | Color  | RaiM | Module | Number      | Channel | Type  | Adapter | Pin |
| <b>Power</b>                 |        |      |        |             |         |       |         |     |
| 24V                          | violet | M    | OMRON  | DC_3        | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | M    | OMRON  | DC_3        | 0V      | P     | TBLOCK  |     |
| 24V                          | violet | M    | EK1101 | 0           | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | M    | EK1101 | 0           | 0V      | P     | TBLOCK  |     |
| 5V_3                         | red    | M    | EK1101 | 0           | +       | P     | DC_3    | +V  |
| 5VRET_3                      | black  | M    | EK1101 | 0           | -       | P     | DC_3    | -V  |
| 24V                          | violet | M    | EL9410 | 11          | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | M    | EL9410 | 11          | 0V      | P     | TBLOCK  |     |
| 5V_3                         | red    | M    | EL9410 | 11          | +       | P     | DC_3    | +V  |
| 5VRET_3                      | black  | M    | EL9410 | 11          | -       | P     | DC_3    | -V  |
| 5V_4                         | red    | M    | EL9190 | 17          | +       | P     | DC_4    | +V  |
| 5VRET_4                      | black  | M    | EL9190 | 17          | -       | P     | DC_4    | -V  |
| 24V                          | violet | M    | OMRON  | DC_4        | 24V     | P     | TBLOCK  |     |
| 0V                           | gray   | M    | OMRON  | DC_4        | 0V      | P     | TBLOCK  |     |
| <b>Coupler</b>               |        |      |        |             |         |       |         |     |
| Output                       | CAT5   | M    | EK1100 | 0           | X2      | Comm. | R/O     | X1  |
| <b>Common Mode Servo B</b>   |        |      |        |             |         |       |         |     |
| Input monitor +              | green  | M    | EL3104 | 1           | +I1     | AI    | 5       | 9   |
| Input monitor -              | white  | M    | EL3104 | 1           | -I1     | AI    | 5       | 28  |
| Monitor at split +           | green  | M    | EL3104 | 1           | +I2     | AI    | 5       | 10  |
| Monitor at split -           | white  | M    | EL3104 | 1           | -I2     | AI    | 5       | 29  |
| Fast monitor +               | green  | M    | EL3104 | 1           | +I3     | AI    | 5       | 11  |
| Fast monitor -               | white  | M    | EL3104 | 1           | -I3     | AI    | 5       | 30  |
| Slow path feedback monitor + | green  | M    | EL3104 | 1           | +I4     | AI    | 5       | 12  |
| Slow path feedback monitor - | white  | M    | EL3104 | 1           | -I4     | AI    | 5       | 31  |
| 5VRET_3                      | black  | M    | EL3102 | 2           | COM     | P     | DC_3    | -V  |
| Slow monitor +               | green  | M    | EL3102 | 2           | +I1     | AI    | 5       | 13  |
| Slow monitor -               | white  | M    | EL3102 | 2           | -I1     | AI    | 5       | 32  |
|                              | green  | M    | EL3102 | 2           | +I2     | AI    |         |     |
|                              | white  | M    | EL3102 | 2           | -I2     | AI    |         |     |
| Common path offset +         | blue   | M    | EL4134 | 3           | O1      | AO    | 5       | 15  |
| Common path offset -         | yellow | M    | EL4134 | 3           | COM     | AO    | 5       | 34  |
| Slow path offset +           | blue   | M    | EL4134 | 3           | O2      | AO    | 5       | 16  |
| Slow path offset -           | yellow | M    | EL4134 | 3           | COM     | AO    | 5       | 35  |
| Slow path output offset +    | blue   | M    | EL4134 | 3           | O1      | AO    | 5       | 17  |
| Slow path output offset -    | yellow | M    | EL4134 | 3           | COM     | AO    | 5       | 36  |
|                              | blue   | M    | EL4134 | 3           | O2      | AO    |         |     |
|                              | yellow | M    | EL4134 | 3           | COM     | AO    |         |     |
| 5VRET_3                      | black  | M    | EL1124 | 4           | -       | P     | 5       | 19  |
| Fast path limits reached     | brown  | M    | EL1124 | 4           | I1      | BI    | 5       | 6   |
| OK                           | brown  | M    | EL1124 | 4           | I2      | BI    | 5       | 25  |
|                              | brown  | M    | EL1124 | 4           | I3      | BI    |         |     |
|                              | brown  | M    | EL1124 | 4           | I4      | BI    |         |     |
| Gain slider fast path bit 0  | orange | M    | EL2124 | 5           | O1      | BO    | 5       | 1   |
| Gain slider fast path bit 1  | orange | M    | EL2124 | 5           | O2      | BO    | 5       | 20  |
| Gain slider fast path bit 2  | orange | M    | EL2124 | 5           | O3      | BO    | 5       | 2   |
| Gain slider fast path bit 3  | orange | M    | EL2124 | 5           | O4      | BO    | 5       | 21  |
| 5VRET_3                      | black  | M    | EL2124 | 6           | -       | P     | 5       | 4   |
| Gain slider fast path bit 4  | orange | M    | EL2124 | 6           | O1      | BO    | 5       | 3   |
| Gain slider fast path bit 5  | orange | M    | EL2124 | 6           | O2      | BO    | 5       | 22  |
| Excitation B enable          | orange | M    | EL2124 | 6           | O3      | BO    | 5       | 23  |
| Option B enable              | orange | M    | EL2124 | 6           | O4      | BO    | 5       | 5   |
| LE                           | orange | M    | EL2124 | 7           | O1      | BO    | 5       | 24  |
| Excitation slow path         | orange | M    | EL2124 | 7           | O2      | BO    | 5       | 7   |
| Polarity input 1 path        | orange | M    | EL2124 | 7           | O3      | BO    | 5       | 26  |
| Polarity input 2 path        | orange | M    | EL2124 | 7           | O4      | BO    | 5       | 8   |
| 5VRET_3                      | black  | M    | EL2124 | 8           | -       | P     | 6       | 4   |
| Gain slider input 1 bit 0    | orange | M    | EL2124 | 8           | O1      | BO    | 6       | 1   |
| Gain slider input 1 bit 1    | orange | M    | EL2124 | 8           | O2      | BO    | 6       | 20  |
| Gain slider input 1 bit 2    | orange | M    | EL2124 | 8           | O3      | BO    | 6       | 2   |
| Gain slider input 1 bit 3    | orange | M    | EL2124 | 8           | O4      | BO    | 6       | 21  |

|                                     |        |   |        |    |    |    |   |    |
|-------------------------------------|--------|---|--------|----|----|----|---|----|
| Gain slider input 1 bit 4           | orange | M | EL2124 | 9  | O1 | BO | 6 | 3  |
| Gain slider input 1 bit 5           | orange | M | EL2124 | 9  | O2 | BO | 6 | 22 |
| Gain slider input 2 bit 0           | orange | M | EL2124 | 9  | O3 | BO | 6 | 23 |
| Gain slider input 2 bit 1           | orange | M | EL2124 | 9  | O4 | BO | 6 | 5  |
| Gain slider input 2 bit 2           | orange | M | EL2124 | 10 | O1 | BO | 6 | 24 |
| Gain slider input 2 bit 3           | orange | M | EL2124 | 10 | O2 | BO | 6 | 6  |
| Gain slider input 2 bit 4           | orange | M | EL2124 | 10 | O3 | BO | 6 | 25 |
| Gain slider input 2 bit 5           | orange | M | EL2124 | 10 | O4 | BO | 6 | 7  |
| Input 1 enable                      | orange | M | EL2124 | 12 | O1 | BO | 6 | 8  |
| Input 2 enable                      | orange | M | EL2124 | 12 | O2 | BO | 6 | 27 |
| Output 1 switch                     | orange | M | EL2124 | 12 | O3 | BO | 6 | 9  |
| Boost stages bit 0                  | orange | M | EL2124 | 12 | O4 | BO | 6 | 28 |
| Boost stages bit 1                  | orange | M | EL2124 | 13 | O1 | BO | 6 | 10 |
| Compensation enable                 | orange | M | EL2124 | 13 | O2 | BO | 6 | 29 |
| Excitation A enable                 | orange | M | EL2124 | 13 | O3 | BO | 6 | 30 |
| Option A enable                     | orange | M | EL2124 | 13 | O4 | BO | 6 | 12 |
| SVRET_3                             | black  | M | EL2124 | 14 | -  | P  | 6 | 33 |
| Polarity slow path                  | orange | M | EL2124 | 14 | O1 | BO | 6 | 31 |
| Common filter enable                | orange | M | EL2124 | 14 | O2 | BO | 6 | 13 |
| Fast path enable                    | orange | M | EL2124 | 14 | O3 | BO | 6 | 32 |
| Fast path polarity                  | orange | M | EL2124 | 14 | O4 | BO | 6 | 14 |
| Slow path option enable             | orange | M | EL2124 | 15 | O1 | BO | 6 | 15 |
| Bypass enable                       | orange | M | EL2124 | 15 | O2 | BO | 6 | 34 |
| Slow output offset +5V fixed        | orange | M | EL2124 | 15 | O3 | BO | 6 | 16 |
| Slow output offset enable           | orange | M | EL2124 | 15 | O4 | BO | 6 | 35 |
| Slow path compensation enable       | orange | M | EL2124 | 16 | O1 | BO | 6 | 17 |
| Slow path boost enable              | orange | M | EL2124 | 16 | O2 | BO | 6 | 36 |
| Slow path filter enable             | orange | M | EL2124 | 16 | O3 | BO | 6 | 37 |
| Fast path limiter enable            | orange | M | EL2124 | 16 | O4 | BO | 6 | 19 |
| <b>Delay Line Phase Shifter C/D</b> |        |   |        |    |    |    |   |    |
| SVRET_4                             | black  | M | EL2124 | 18 | -  | P  | 7 | 14 |
| Bit 0/A                             | orange | M | EL2124 | 18 | O1 | BO | 7 | 1  |
| Bit 1/A                             | orange | M | EL2124 | 18 | O2 | BO | 7 | 2  |
| Bit 2/A                             | orange | M | EL2124 | 18 | O3 | BO | 7 | 3  |
| Bit 3/A                             | orange | M | EL2124 | 18 | O4 | BO | 7 | 4  |
| Bit 4/A                             | orange | M | EL2124 | 19 | O1 | BO | 7 | 5  |
| Bit 5/A                             | orange | M | EL2124 | 19 | O2 | BO | 7 | 6  |
| Bit 6/A                             | orange | M | EL2124 | 19 | O3 | BO | 7 | 7  |
| Bit 7/A                             | orange | M | EL2124 | 19 | O4 | BO | 7 | 8  |
| Bit 8/A                             | orange | M | EL2124 | 20 | O1 | BO | 7 | 9  |
| LE/A                                | orange | M | EL2124 | 20 | O2 | BO | 7 | 10 |
| Bit 0/B                             | orange | M | EL2124 | 20 | O3 | BO | 8 | 1  |
| Bit 1/B                             | orange | M | EL2124 | 20 | O4 | BO | 8 | 2  |
| SVRET_4                             | black  | M | EL2124 | 21 | -  | P  | 8 | 14 |
| Bit 2/B                             | orange | M | EL2124 | 21 | O1 | BO | 8 | 3  |
| Bit 3/B                             | orange | M | EL2124 | 21 | O2 | BO | 8 | 4  |
| Bit 4/B                             | orange | M | EL2124 | 21 | O3 | BO | 8 | 5  |
| Bit 5/B                             | orange | M | EL2124 | 21 | O4 | BO | 8 | 6  |
| Bit 6/B                             | orange | M | EL2124 | 22 | O1 | BO | 8 | 7  |
| Bit 7/B                             | orange | M | EL2124 | 22 | O2 | BO | 8 | 8  |
| Bit 8/B                             | orange | M | EL2124 | 22 | O3 | BO | 8 | 9  |
| LE/B                                | orange | M | EL2124 | 22 | O4 | BO | 8 | 10 |

| Squeezer Controls Chassis 2 |        |      |        | Right Rail |         |       |         |     |
|-----------------------------|--------|------|--------|------------|---------|-------|---------|-----|
| Name                        | Color  | Rail | Module | Number     | Channel | Type  | Adapter | Pin |
| <b>Power</b>                |        |      |        |            |         |       |         |     |
| 24V                         | violet | R    | OMRON  | DC_5       | 24V     | P     | TBLOCK  |     |
| 0V                          | gray   | R    | OMRON  | DC_5       | 0V      | P     | TBLOCK  |     |
| 24V                         | violet | R    | EK1100 | 0          | 24V     | P     | TBLOCK  |     |
| 0V                          | gray   | R    | EK1100 | 0          | 0V      | P     | TBLOCK  |     |
| 5V_5                        | red    | R    | EK1100 | 0          | +       | P     | DC_5    | +V  |
| 5VRET_5                     | black  | R    | EK1100 | 0          | -       | P     | DC_5    | -V  |
| 5V_6                        | red    | R    | EL9190 | 5          | +       | P     | DC_6    | +V  |
| 5VRET_6                     | black  | R    | EL9190 | 5          | -       | P     | DC_6    | -V  |
| 24V                         | violet | R    | EL9410 | 10         | 24V     | P     | TBLOCK  |     |
| 0V                          | gray   | R    | EL9410 | 10         | 0V      | P     | TBLOCK  |     |
| 24V                         | violet | R    | EL9410 | 10         | 24V     | P     | TBLOCK  |     |
| 0V                          | gray   | R    | EL9410 | 10         | 0V      | P     | TBLOCK  |     |
| 5V_7                        | red    | R    | EL9190 | 14         | +       | P     | DC_7    | +V  |
| 5VRET_7                     | black  | R    | EL9190 | 14         | -       | P     | DC_7    | -V  |
| 24V                         | violet | R    | OMRON  | DC_6       | 24V     | P     | TBLOCK  |     |
| 0V                          | gray   | R    | OMRON  | DC_6       | 0V      | P     | TBLOCK  |     |
| 24V                         | violet | R    | OMRON  | DC_7       | 24V     | P     | TBLOCK  |     |
| 0V                          | gray   | R    | OMRON  | DC_7       | 0V      | P     | TBLOCK  |     |
| <b>Coupler</b>              |        |      |        |            |         |       |         |     |
| Output                      | CAT5   | R    | EK1100 | 0          | X2      | Comm. | OUT     |     |
| <b>PZT Driver A</b>         |        |      |        |            |         |       |         |     |
| Monitor 1+                  | green  | R    | EL3104 | 1          | +I1     | AI    | A       | 5   |
| Monitor 1-                  | white  | R    | EL3104 | 1          | -I1     | AI    | A       | 8   |
| Monitor 2+                  | green  | R    | EL3104 | 1          | +I2     | AI    | A       | 13  |
| Monitor 2-                  | white  | R    | EL3104 | 1          | -I2     | AI    | A       | 8   |
| Monitor 3+                  | green  | R    | EL3104 | 1          | +I3     | AI    | A       | 6   |
| Monitor 3-                  | white  | R    | EL3104 | 1          | -I3     | AI    | A       | 8   |
| Monitor 4+                  | green  | R    | EL3104 | 1          | +I4     | AI    | A       | 14  |
| Monitor 4-                  | white  | R    | EL3104 | 1          | -I4     | AI    | A       | 8   |
| Offset 1+                   | blue   | R    | EL4134 | 2          | O1      | AO    | A       | 1   |
| Offset 1-                   | yellow | R    | EL4134 | 2          | COM     | AO    | A       | 9   |
| Offset 2+                   | blue   | R    | EL4134 | 2          | O2      | AO    | A       | 2   |
| Offset 2-                   | yellow | R    | EL4134 | 2          | COM     | AO    | A       | 10  |
| Offset 3+                   | blue   | R    | EL4134 | 2          | O1      | AO    | A       | 3   |
| Offset 3-                   | yellow | R    | EL4134 | 2          | COM     | AO    | A       | 11  |
| Offset 4+                   | blue   | R    | EL4134 | 2          | O2      | AO    | A       | 4   |
| Offset 4-                   | yellow | R    | EL4134 | 2          | COM     | AO    | A       | 12  |
| 5VRET_5                     | black  | R    | EL1124 | 3          | -       | P     | A       | 8   |
| OK                          | brown  | R    | EL1124 | 3          | I1      | BI    | A       | 15  |
| EXT                         | brown  | R    | EL1124 | 3          | I2      | BI    | A       | 7   |
|                             | brown  | R    | EL1124 | 3          | I3      | BI    |         |     |
|                             | brown  | R    | EL1124 | 3          | I4      | BI    |         |     |
|                             | orange | R    | EL2124 | 4          | O1      | BO    |         |     |
|                             | orange | R    | EL2124 | 4          | O2      | BO    |         |     |
|                             | orange | R    | EL2124 | 4          | O3      | BO    |         |     |
|                             | orange | R    | EL2124 | 4          | O4      | BO    |         |     |
| <b>PZT Driver B</b>         |        |      |        |            |         |       |         |     |
| Monitor 1+                  | green  | R    | EL3104 | 6          | +I1     | AI    | B       | 5   |
| Monitor 1-                  | white  | R    | EL3104 | 6          | -I1     | AI    | B       | 8   |
| Monitor 2+                  | green  | R    | EL3104 | 6          | +I2     | AI    | B       | 13  |
| Monitor 2-                  | white  | R    | EL3104 | 6          | -I2     | AI    | B       | 8   |
| Monitor 3+                  | green  | R    | EL3104 | 6          | +I3     | AI    | B       | 6   |
| Monitor 3-                  | white  | R    | EL3104 | 6          | -I3     | AI    | B       | 8   |
| Monitor 4+                  | green  | R    | EL3104 | 6          | +I4     | AI    | B       | 14  |
| Monitor 4-                  | white  | R    | EL3104 | 6          | -I4     | AI    | B       | 8   |
| Offset 1+                   | blue   | R    | EL4134 | 7          | O1      | AO    | B       | 1   |
| Offset 1-                   | yellow | R    | EL4134 | 7          | COM     | AO    | B       | 9   |
| Offset 2+                   | blue   | R    | EL4134 | 7          | O2      | AO    | B       | 2   |
| Offset 2-                   | yellow | R    | EL4134 | 7          | COM     | AO    | B       | 10  |
| Offset 3+                   | blue   | R    | EL4134 | 7          | O1      | AO    | B       | 3   |
| Offset 3-                   | yellow | R    | EL4134 | 7          | COM     | AO    | B       | 11  |

|                            |        |   |        |    |     |    |   |    |
|----------------------------|--------|---|--------|----|-----|----|---|----|
| Offset 4+                  | blue   | R | EL4134 | 7  | O2  | AO | B | 4  |
| Offset 4-                  | yellow | R | EL4134 | 7  | COM | AO | B | 12 |
| 5VRET_6                    | black  | R | EL1124 | 8  | -   | P  | B | 8  |
| OK                         | brown  | R | EL1124 | 8  | I1  | BI | B | 15 |
| EXT                        | brown  | R | EL1124 | 8  | I2  | BI | B | 7  |
|                            | brown  | R | EL1124 | 8  | I3  | BI |   |    |
|                            | brown  | R | EL1124 | 8  | I4  | BI |   |    |
|                            | orange | R | EL2124 | 9  | O1  | BO |   |    |
|                            | orange | R | EL2124 | 9  | O2  | BO |   |    |
|                            | orange | R | EL2124 | 9  | O3  | BO |   |    |
|                            | orange | R | EL2124 | 9  | O4  | BO |   |    |
| <b>OPO/SHG Oven</b>        |        |   |        |    |     |    |   |    |
| GND                        | black  | R | EL9410 | 10 | 0V  | P  | 2 | 8  |
| GND                        | black  | R | EL9410 | 10 | 0V  | P  | 3 | 8  |
| Temperature Supply 1 +     | red    | R | EL3692 | 11 | +R1 | AI | 2 | 1  |
| Temperature Supply 1 -     | black  | R | EL3692 | 11 | -R1 | AI | 2 | 9  |
| Temperature Readback 1 +   | green  | R | EL3692 | 11 | +R1 | AI | 2 | 2  |
| Temperature Readback 1 -   | white  | R | EL3692 | 11 | -R1 | AI | 2 | 10 |
| Temperature Supply 2 +     | red    | R | EL3692 | 11 | +R2 | AI | 3 | 1  |
| Temperature Supply 2 -     | black  | R | EL3692 | 11 | -R2 | AI | 3 | 9  |
| Temperature Readback 2 +   | green  | R | EL3692 | 11 | +R2 | AI | 3 | 2  |
| Temperature Readback 2 -   | white  | R | EL3692 | 11 | -R2 | AI | 3 | 10 |
| Current monitor 1 +        | green  | R | EL3104 | 12 | +I1 | AI | 2 | 6  |
| Current monitor 1 -        | white  | R | EL3104 | 12 | -I1 | AI | 2 | 14 |
| Remote voltage monitor 1 + | green  | R | EL3104 | 12 | +I2 | AI | 2 | 7  |
| Remote voltage monitor 1 - | white  | R | EL3104 | 12 | -I2 | AI | 2 | 15 |
| Current monitor 2 +        | green  | R | EL3104 | 12 | +I1 | AI | 3 | 6  |
| Current monitor 2 -        | white  | R | EL3104 | 12 | -I1 | AI | 3 | 14 |
| Remote voltage monitor 2 + | green  | R | EL3104 | 12 | +I2 | AI | 3 | 7  |
| Remote voltage monitor 2 - | white  | R | EL3104 | 12 | -I2 | AI | 3 | 15 |
| Set current/voltage 1 +    | blue   | R | EL4132 | 13 | O1  | AO | 2 | 3  |
| Set current/voltage 1 -    | yellow | R | EL4132 | 13 | COM | AO | 2 | 11 |
| Set current/voltage 2 +    | blue   | R | EL4132 | 13 | O2  | AO | 3 | 3  |
| Set current/voltage 2 -    | yellow | R | EL4132 | 13 | COM | AO | 3 | 11 |
| <b>VCXO</b>                |        |   |        |    |     |    |   |    |
| Monitor 1 +                | green  | R | EL3104 | 15 | +I1 | AI | 4 | 1  |
| Monitor 1 -                | white  | R | EL3104 | 15 | -I1 | AI | 4 | 14 |
| Monitor 2 +                | green  | R | EL3104 | 15 | +I2 | AI | 4 | 2  |
| Monitor 2 -                | white  | R | EL3104 | 15 | -I2 | AI | 4 | 15 |
| Monitor 3 +                | green  | R | EL3104 | 15 | +I3 | AI | 4 | 3  |
| Monitor 3 -                | white  | R | EL3104 | 15 | -I3 | AI | 4 | 16 |
| Temp 1 +                   | green  | R | EL3104 | 15 | +I4 | AI | 4 | 4  |
| Temp 1 -                   | white  | R | EL3104 | 15 | -I4 | AI | 4 | 17 |
| Temp 2 +                   | green  | R | EL3104 | 16 | +I1 | AI | 4 | 5  |
| Temp 2 -                   | white  | R | EL3104 | 16 | -I1 | AI | 4 | 18 |
| Temp 3 +                   | green  | R | EL3104 | 16 | +I2 | AI | 4 | 6  |
| Temp 3 -                   | white  | R | EL3104 | 16 | -I2 | AI | 4 | 19 |
| Tune monitor +             | green  | R | EL3104 | 16 | +I3 | AI | 4 | 10 |
| Tune monitor -             | white  | R | EL3104 | 16 | -I3 | AI | 4 | 23 |
| Spare +                    | green  | R | EL3104 | 16 | +I4 | AI | 4 | 12 |
| Spare -                    | white  | R | EL3104 | 16 | -I4 | AI | 4 | 25 |
| Tune adjust +              | blue   | R | EL4132 | 17 | O1  | AO | 4 | 11 |
| Tune adjust -              | yellow | R | EL4132 | 17 | COM | AO | 4 | 24 |
|                            | blue   | R | EL4132 | 17 | O2  | AO |   |    |
|                            | yellow | R | EL4132 | 17 | COM | AO |   |    |
| 5VRET_4                    | black  | R | EL1124 | 18 | -   | P  | 4 | 20 |
| Excitation switch          | brown  | R | EL1124 | 18 | I1  | BI | 4 | 9  |
| OK                         | brown  | R | EL1124 | 18 | I2  | BI | 4 | 7  |
|                            | brown  | R | EL1124 | 18 | I3  | BI |   |    |
|                            | brown  | R | EL1124 | 18 | I4  | BI |   |    |
| Excitation enable          | orange | R | EL2124 | 19 | O1  | BO | 4 | 8  |
|                            | orange | R | EL2124 | 19 | O2  | BO |   |    |
|                            | orange | R | EL2124 | 19 | O3  | BO |   |    |
|                            | orange | R | EL2124 | 19 | O4  | BO |   |    |