

Laser Calibrator Chassis Parts

2 August, 2013, R. Abbott

Digi-Key Parts:

1. Qty. (1) 679-1230-ND – Momentary switch to enable laser (Digi-Key)
2. Qty. (1) 679-1232-ND – Selector Switch for CW or Modulated Light (Digi-Key)
3. Qty. (1) 67-1188-ND – Red LED for front panel fault light (Digi-Key)
4. Qty. (1) 67-1189-ND – Green LED for front panel ON/OFF light (Digi-Key)
5. Qty. (4) 1656K-ND – Hex Post Standoff for PCB (Digi-Key)
6. Qty. (1) ACX1048-ND – Isolated BNC Panel Jack (Digi-Key)
7. Qty. (1) J666-ND – Gold SMA Receptacle
8. Qty. (1) P49.9DACT-ND – 49.9 ohm thin film resistor, 0805 package
9. Qty. (1) 3368K-ND – 0.25 inch OD, Fiber Washer (to go under laser diode as a spacer)
10. Qty. (1) 560GC-ND – Roll of Fish-paper to make a spacer between the circuit board, and the metal cover plate.
11. Qty. (1) SC1401-ND – Bulkhead 4-pin Power Connector, Black Plastic
12. Qty. (1) SC1418-ND – Cable End 4-pin Power Connector, Black Plastic

Thorlabs Parts:

1. Qty. (1) Thorlabs Current Driver Board (comes with power supply), part number M0094-160-1/B
2. Qty. (1) Thorlabs ½ inch lens tube, part number SM1L05
3. Qty. (2) Thorlabs retaining ring, part number MS1RR
4. Qty. (1) Thorlabs L980P010, 980nm Laser Diode
5. Qty. (1) Thorlabs SPW602 lens ring insertion tool (optional, but nice)

Microtech Inc. Parts:

1. 3 feet of four conductor shielded wire, Microtech part number MS-4-30
2. Qty. (1) DR-4S-4PC, PCB mounted four pin connector
3. Qty. (1) DP-4S-1, Cable end connector to mate with PCB mounted connector

Misc. Parts:

1. Qty. (1) Mini-Circuits Inc. TCBT-14+, RF Bias Tee, surface mount
2. Qty. (1) DB-9 Male connector and backshell to mate with current driver output
3. Qty. (1) LIGO-D1200690, circuit board and panel file (manufactured by Front Panel Express LLC)
4. ~26AWG hookup wire for internal wiring of switches
5. 0.25 inch crimp-on quick connect lugs to interface with switches etc.