Tetrode Device 1

Assembly Parts:

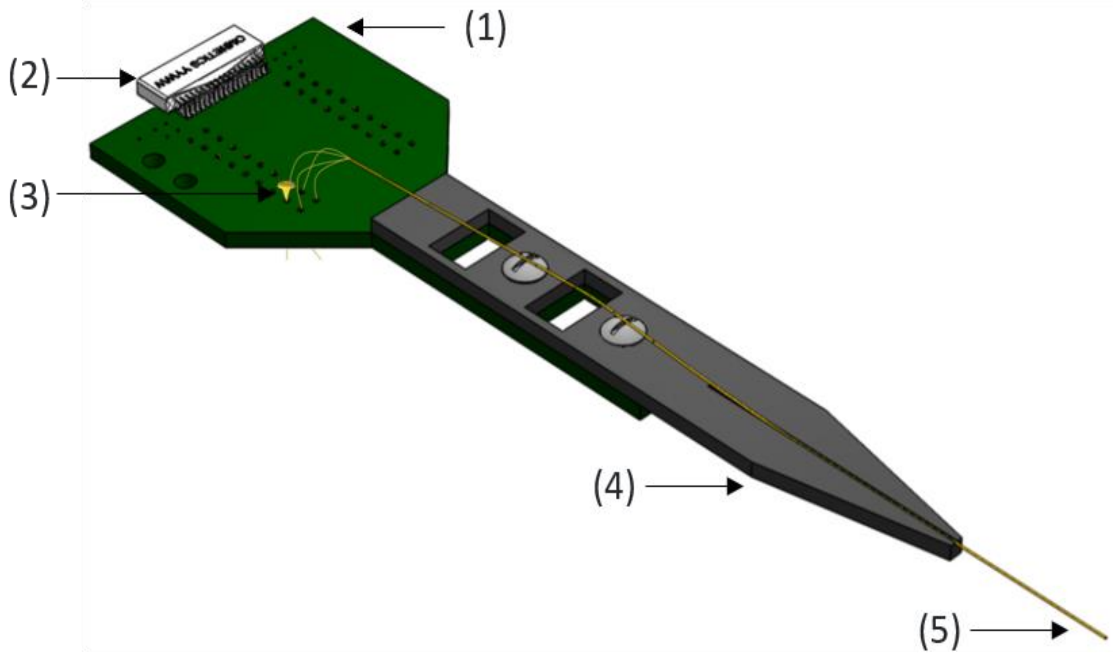
(1) – Electrode Interface Board (EIB). Link

(2) – A79024-001 Omnetics connector. Link

(3) – Small gold pins. Link

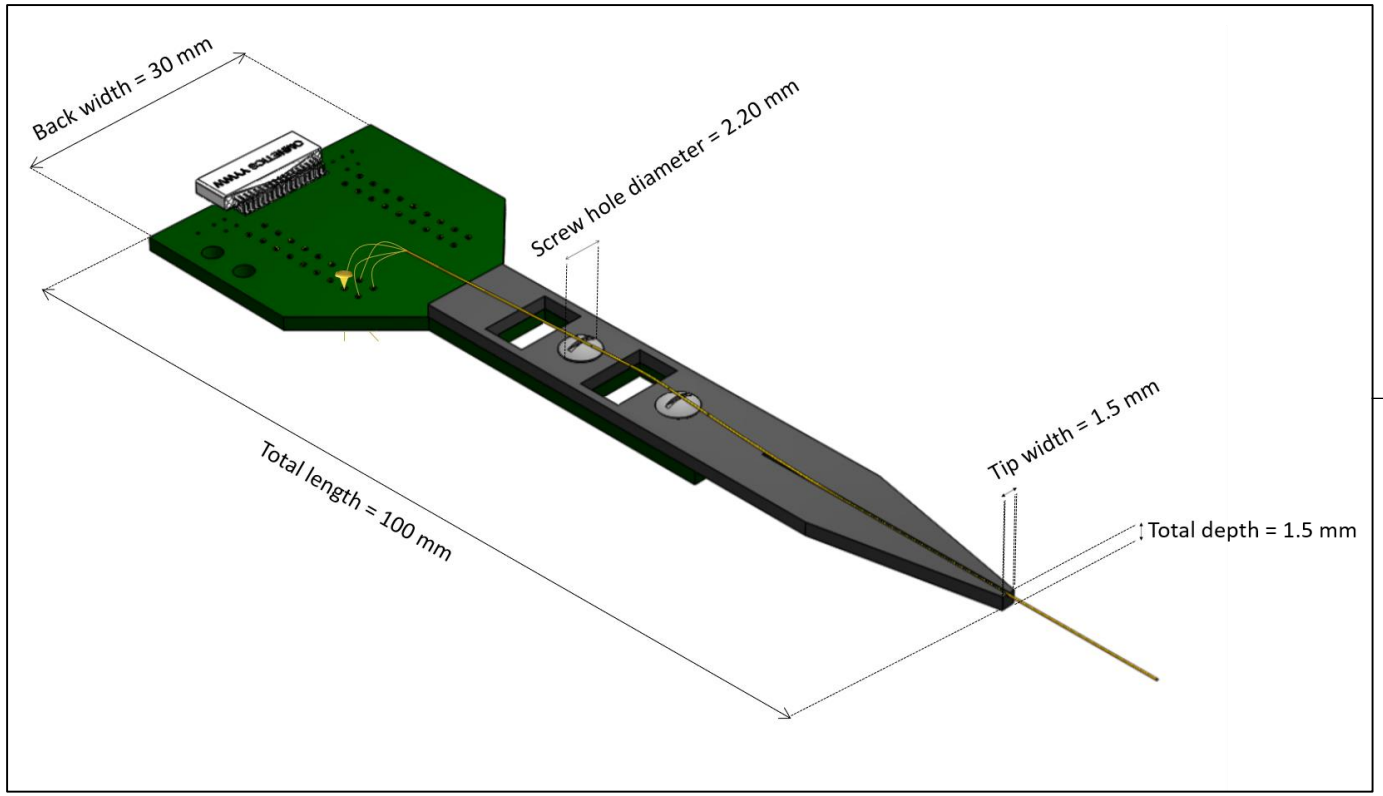
(4) – Tetrode guide. Link

(5) – Tetrode wire (determined by application).

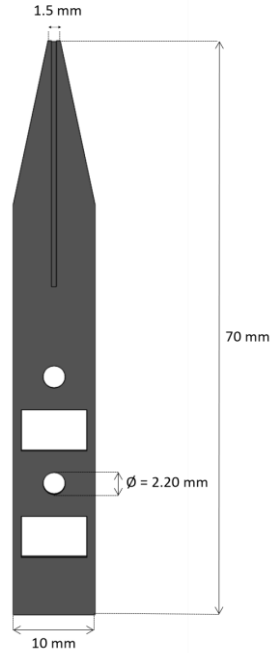


Tetrode Device Dimensions

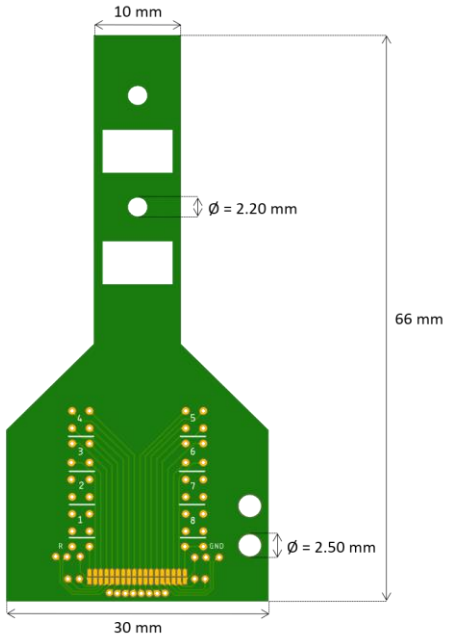
1



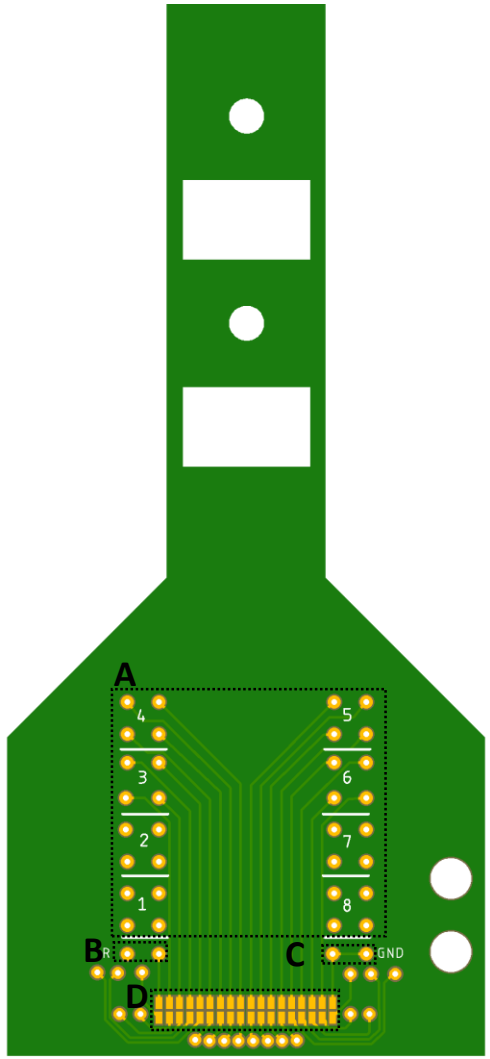
(4)



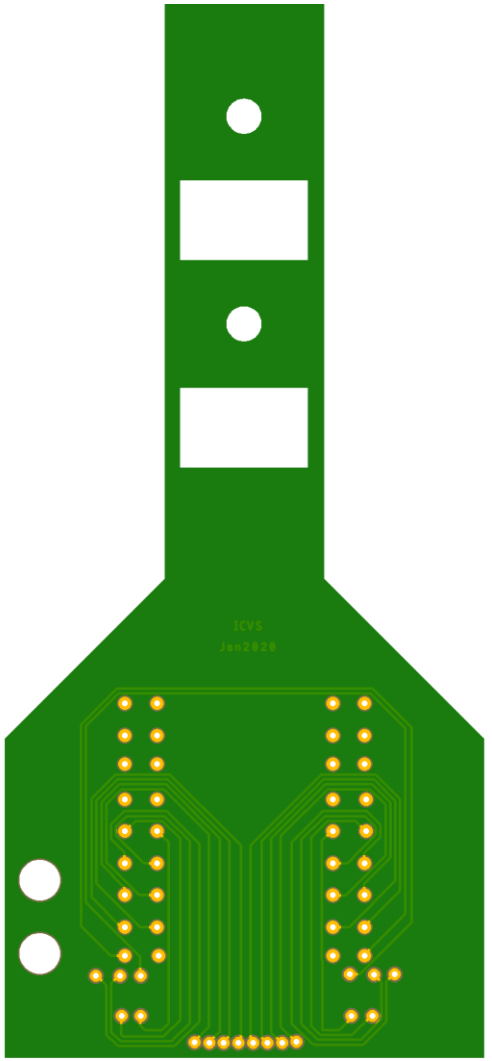
(1)



Electrode Interface Board (EIB) 2



(a) - Top view



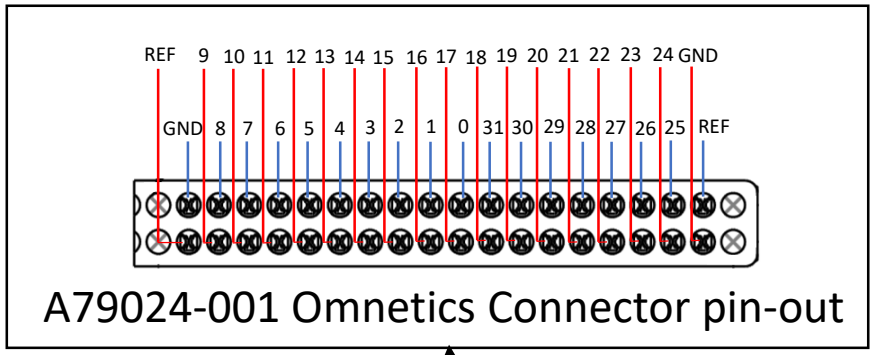
(b) – Bottom view.

(A) – tetrode holes;
(B) – reference holes;
(C) – ground holes;
(D) – connector pads.

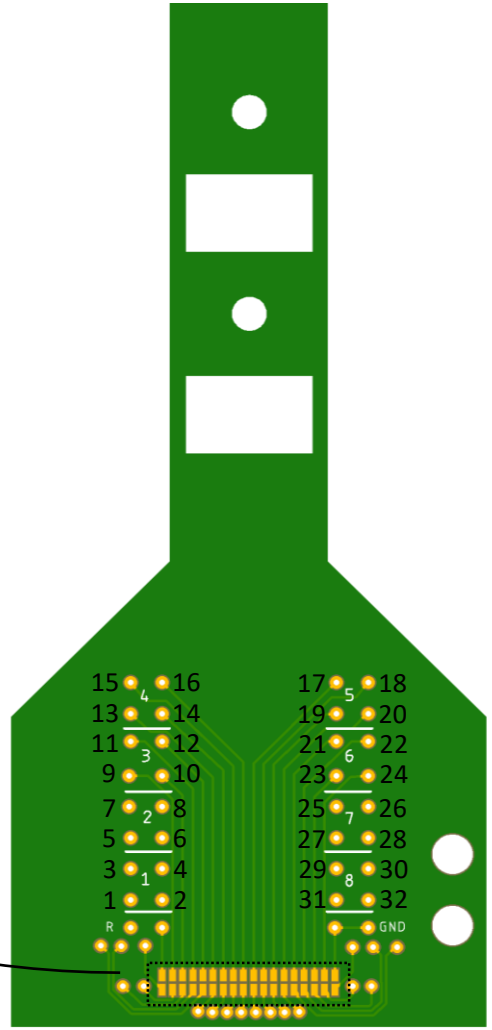
Electrode Interface Board (EIB) 2

RHD32 (Open Ephys/Intan)

- GND + REF short : link
- GND / REF independent: link



A79024-001 Omnetics Connector pin-out

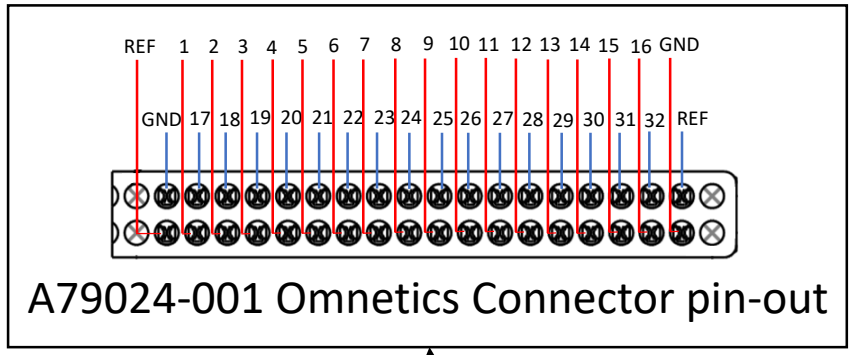


(a) Top view

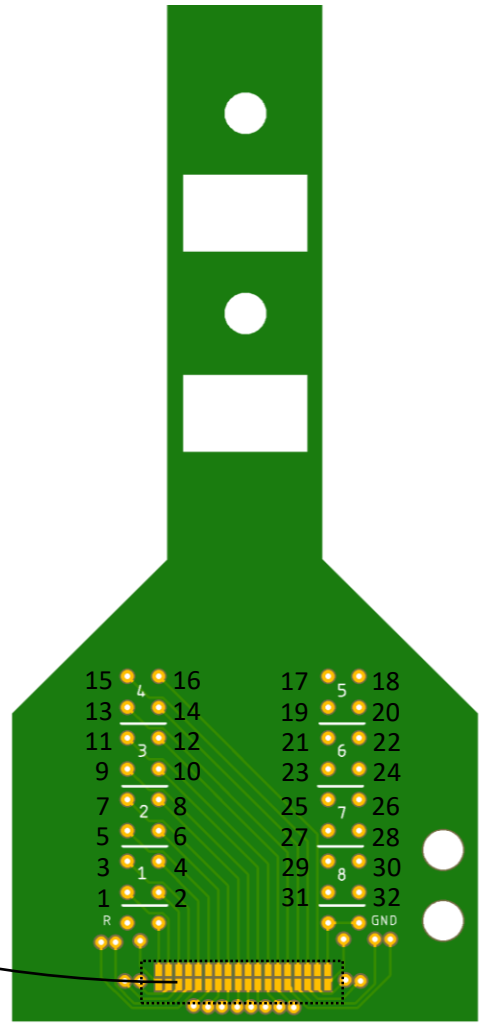
Electrode Interface Board (EIB) 2

HS-36-LED (NeuraLynx)

- GND + REF short : link
- GND / REF independent: link



A79024-001 Omnetics Connector pin-out

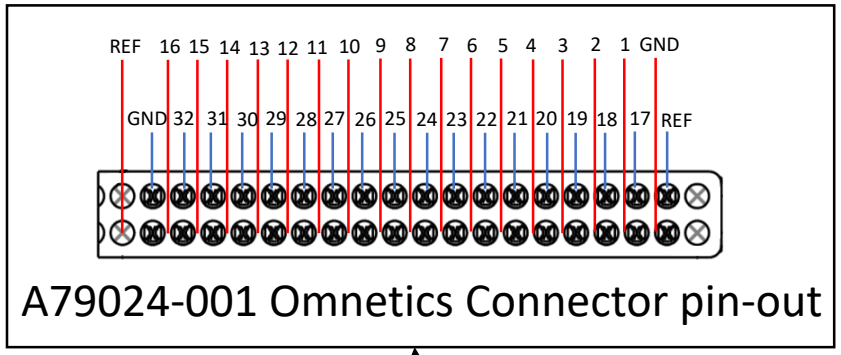


(a) Top view

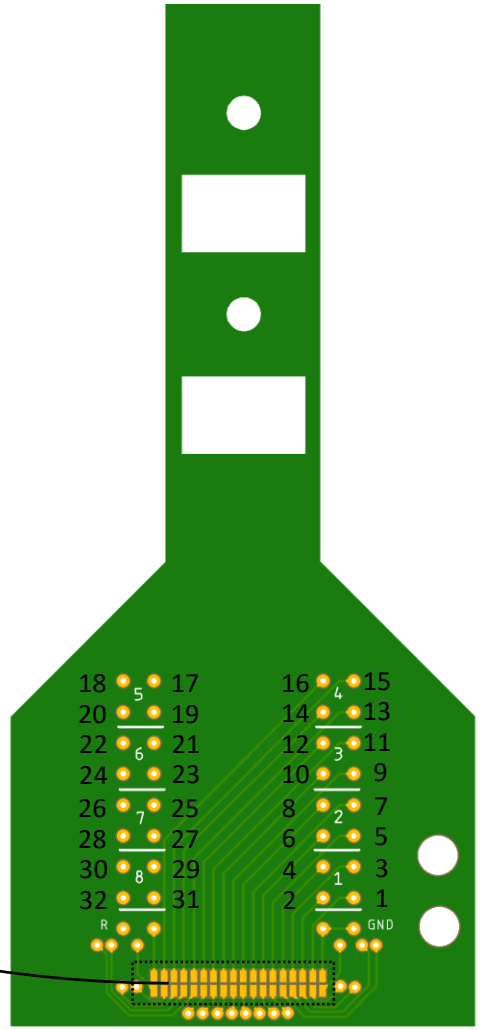
Electrode Interface Board (EIB) 2

HST/32D (Plexon)

- GND + REF short : link
- GND / REF independent: link



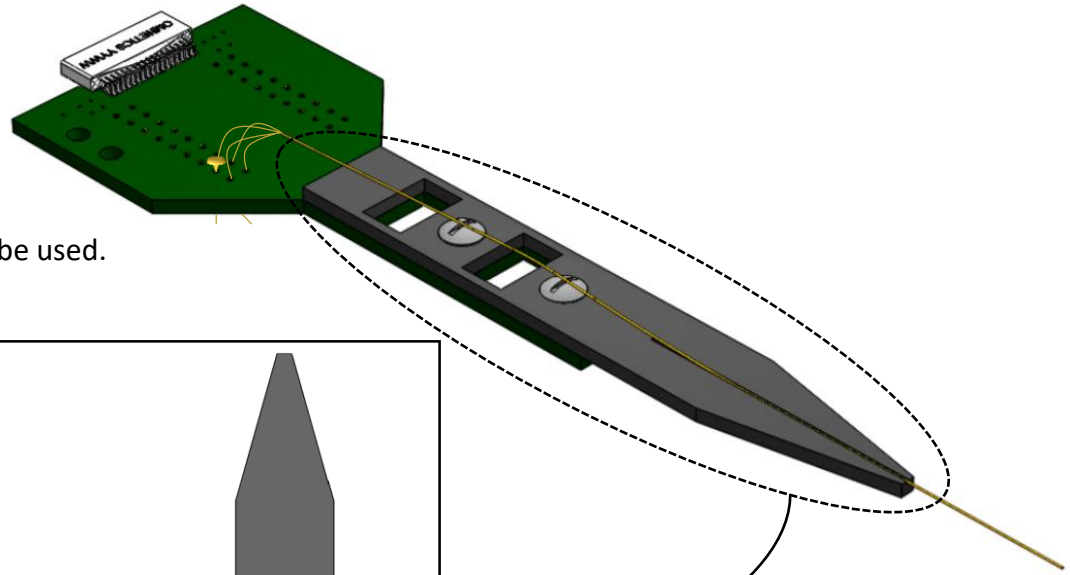
A79024-001 Omnetics Connector pin-out



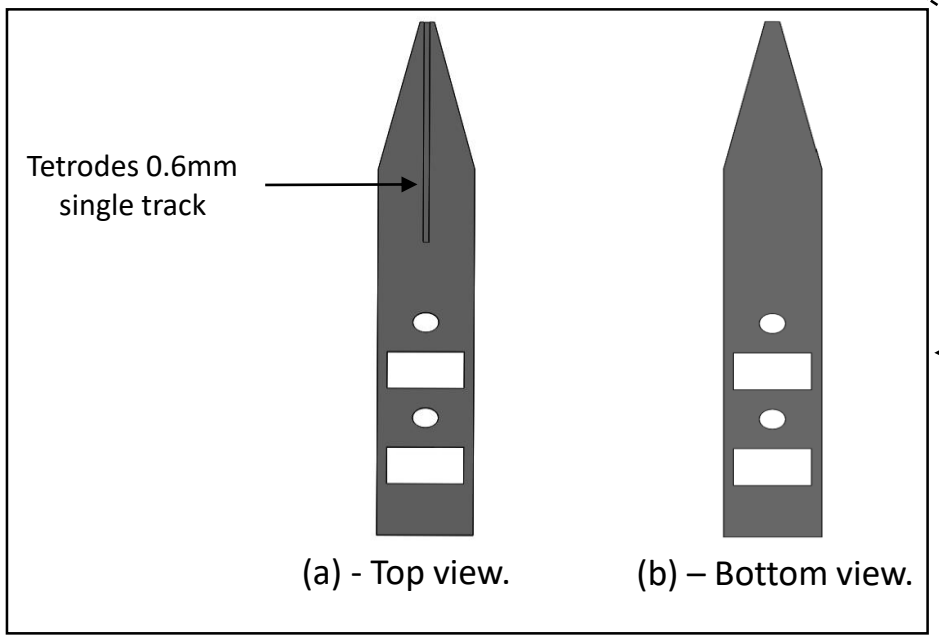
(a) Top view

Tetrode guide - single track example (holds 8x50µm tetrodes):

- length = 30 mm
- width = 0.6 mm
- depth= 0.6 mm



* These designs are easily altered and adjusted to the size and number of tetrodes to be used.
Link



Optogenetic Extension 3

Tetrode guide + optic guide example (holds 8x50 µm tetrodes + 1x 200 µm optic fiber):

- length = 30 mm
- width = 0.3 mm
- depth= 0.8 mm

* These designs are easily altered and adjusted to the size and number of tetrodes to be used.
Link