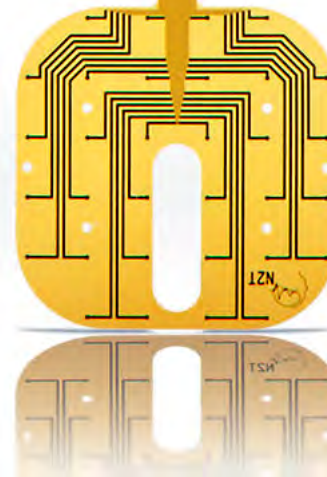
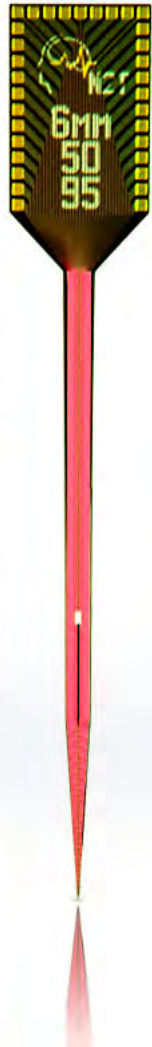




NeuroNexus

2023 ECoG
Probe Designs

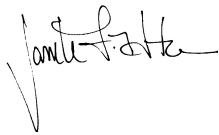


Welcome!

NeuroNexus is driven to empower discovery in the life sciences. Our focus and passion are to create high-performance interfaces to precisely targeted circuits in the central, autonomic, and peripheral nervous systems and end organs such as the heart, and our technologies and solutions extend from the tissue interface to the user interface. They include an extensive catalog of industry-leading microelectrode arrays, precise and reliable instrumentation systems, and a highly performant, innovative software platform for acquiring, visualizing, and analyzing complex data streams and data sets. Our devices, systems, and software are professionally engineered and manufactured so that we can provide high-quality and reliable solutions as we partner with our customers to help accelerate their scientific research. Visit neuronexus.com to view our entire line of products and services.

Thank you for your interest in NeuroNexus microelectrode arrays!

We offer the largest and most diverse set of high-quality, thin-film multichannel array designs available in the field. Our arrays are designed, fabricated and assembled by a team of neural engineers, scientists and technicians with more than 200 years of collective experience in thin-film array design, manufacturing and application. For nearly two decades, NeuroNexus has continued to build upon and refine our catalog using input from our customers. Throughout the years we have designed nearly 600 unique rigid and flexible arrays for use in recording and stimulation of brain, spinal cord, peripheral nerve and cardiac tissue in species ranging from insects to non-human primates. NeuroNexus strives to meet the needs of all our customers; if you have a unique need not found in this catalog, please contact us as our technology platforms offer virtually unlimited design space to customize a design to suit your specific experimental needs. We look forward to working with you!


A handwritten signature in black ink, appearing to read "Jamille F. Hetke". The signature is fluid and cursive, with a large initial "J" and "H".

Jamille F. Hetke, M.S.

VP Engineering

Neural Interface Technology, MEMS Design and Fabrication

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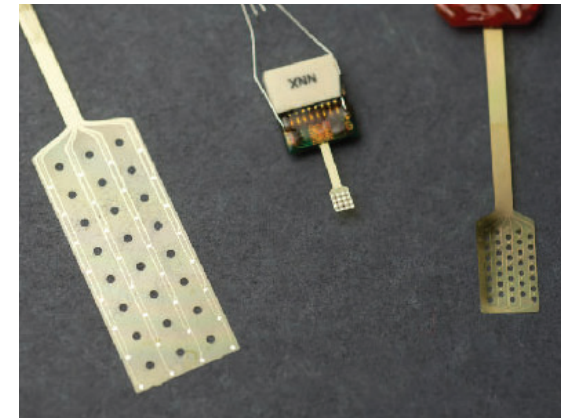
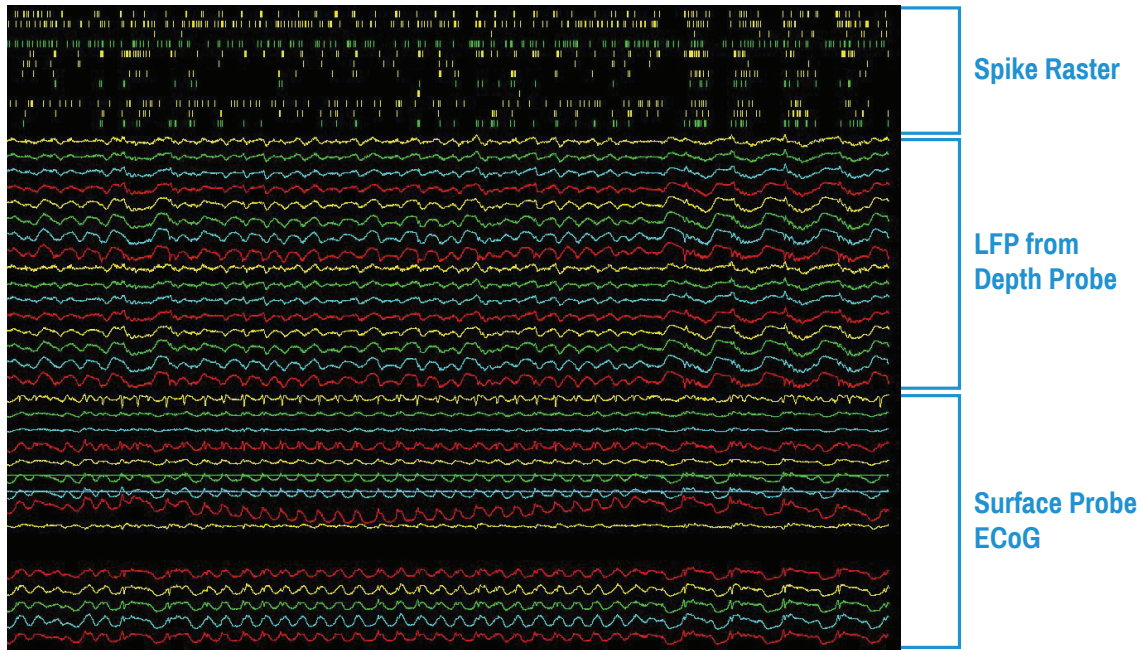
NeuroNexus products included in this document have not been approved for use in humans.

Any statements regarding NeuroNexus' future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

References in this document to NeuroNexus products and services do not imply that NeuroNexus intends to make such products and services available in all countries in which NeuroNexus does business.

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ECoG



ABOVE: ECoG probes are available in different sizes and site configurations for different applications.

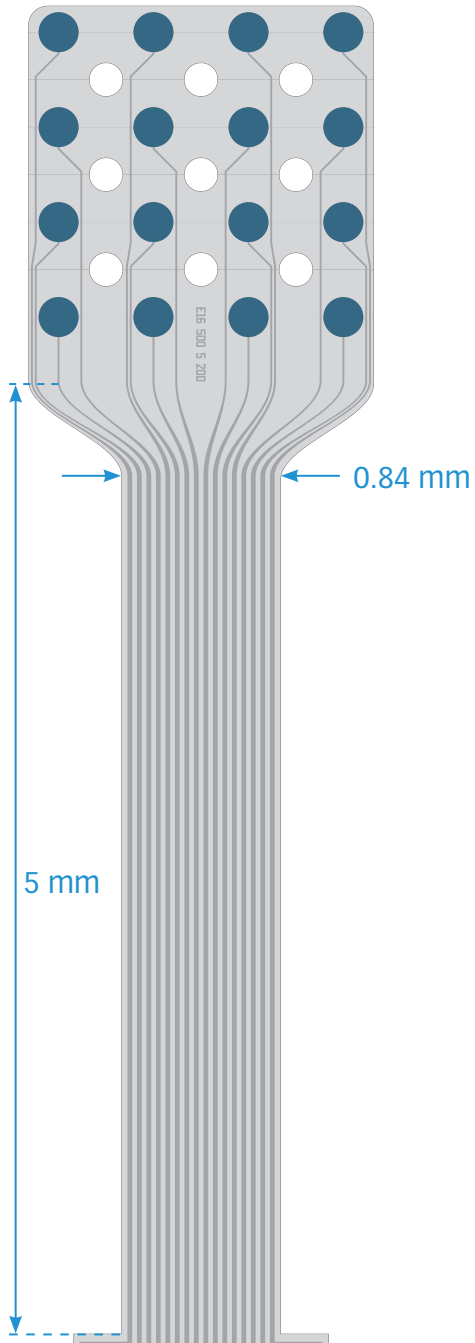
NeuroNexus **ECoG probes** are ultra-flexible surface grids with high recording resolution, designed to conform closely to the brain surface for electrocorticography.

- **Flexible and Durable** – Fabricated with our polymer MEMS technology, our ECoG probes conform to the brain surface.
- **Optimized array designs** – Select from a variety of ECoG array designs featuring different site spacings, for different applications or animal models.
- **Versatile** – Combine an ECoG probe with a NeuroNexus penetrating array to establish concurrent surface and intracortical interfaces.

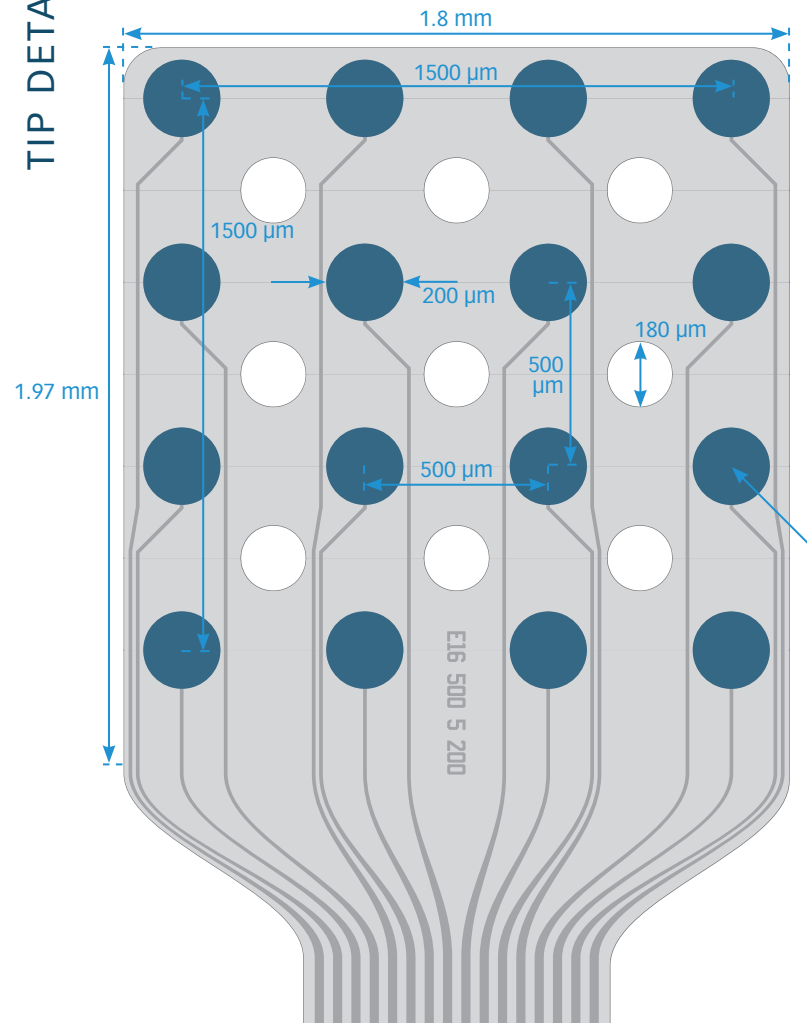
SPECIFICATIONS

Substrate Material	Polyimide
Electrode Site Material	Platinum
Array Thickness	15 μ m
Cable Length	5 - 30 mm (varies by design)
Channel Count	16, 32, 64 (varies by design)
Available Packages	H16, HC16, HZ16, X3-H16, H32, HC32, HZ32, X3-H32, H64, H64LP, HC64, HZ64, X3-H64

E16-500-5-200



TIP DETAIL



available packages

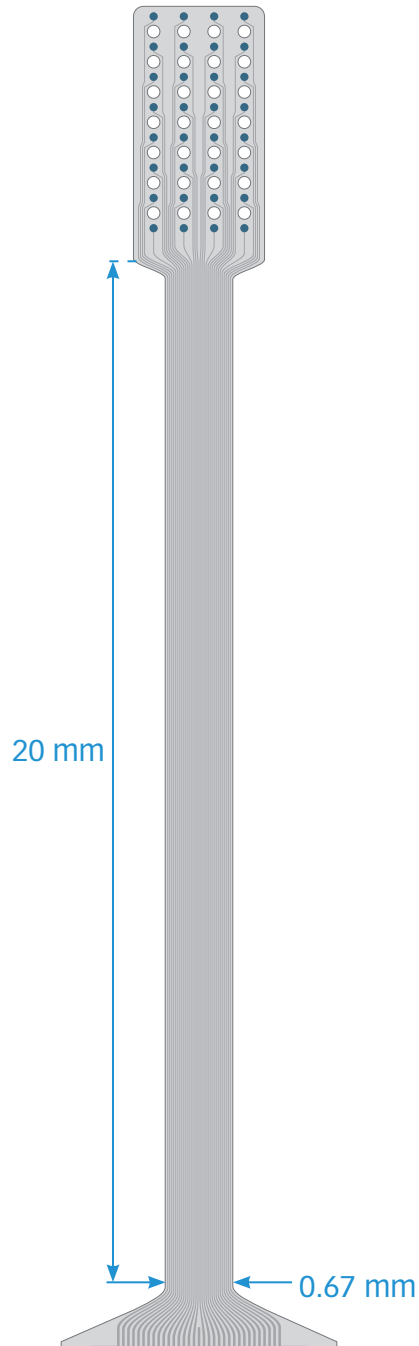
CHRONIC

H16
HC16
HZ16
X3-H16

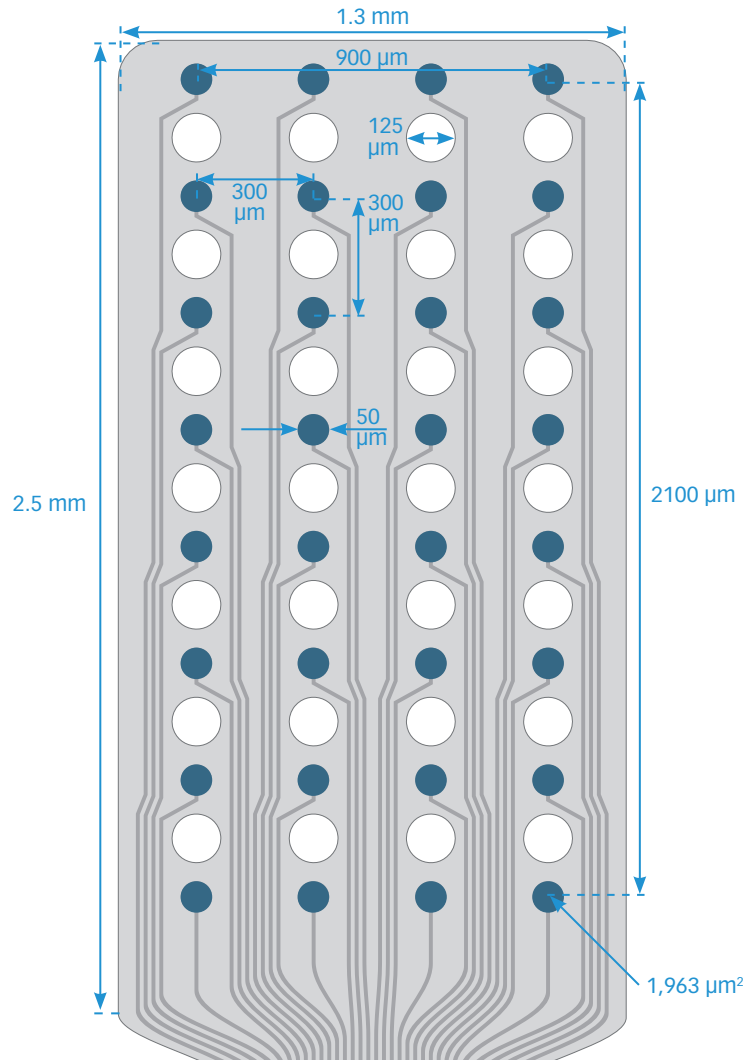
thickness

15 μm

E32-300-20-50



TIP DETAIL



available packages

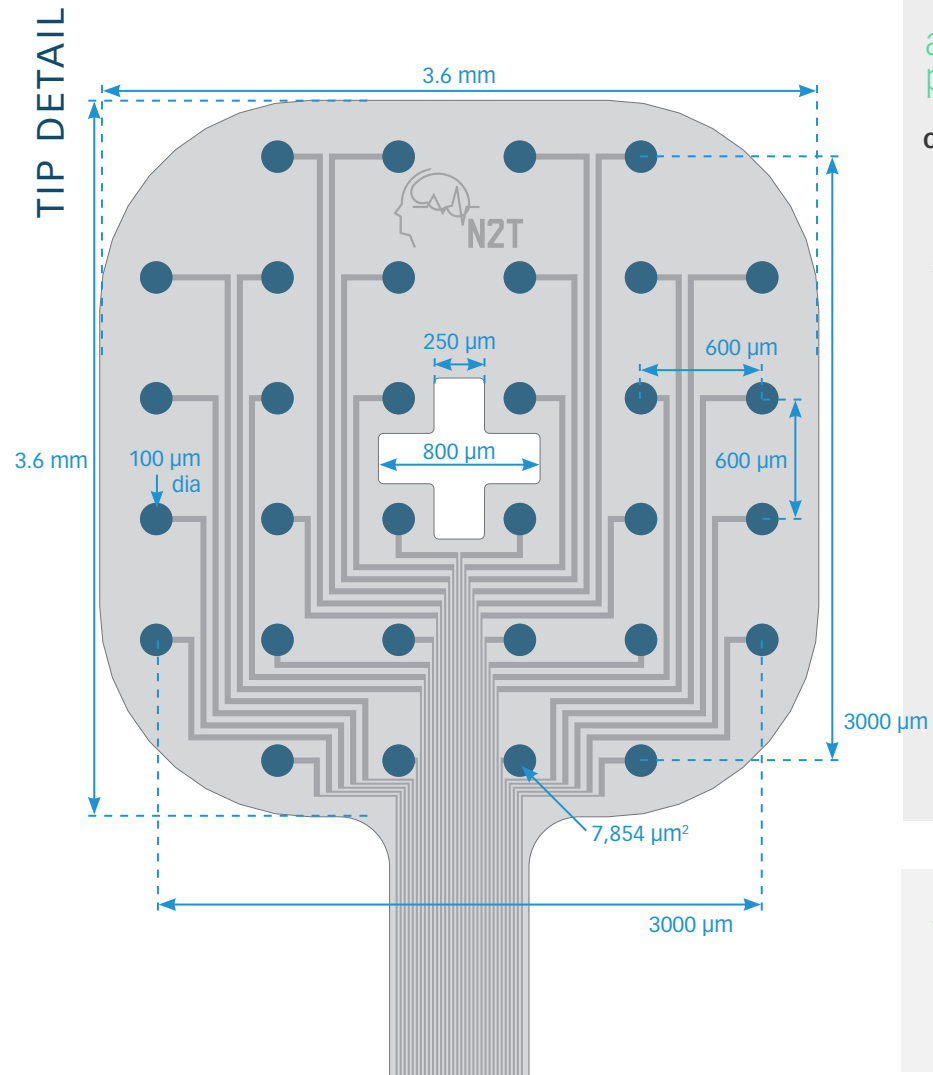
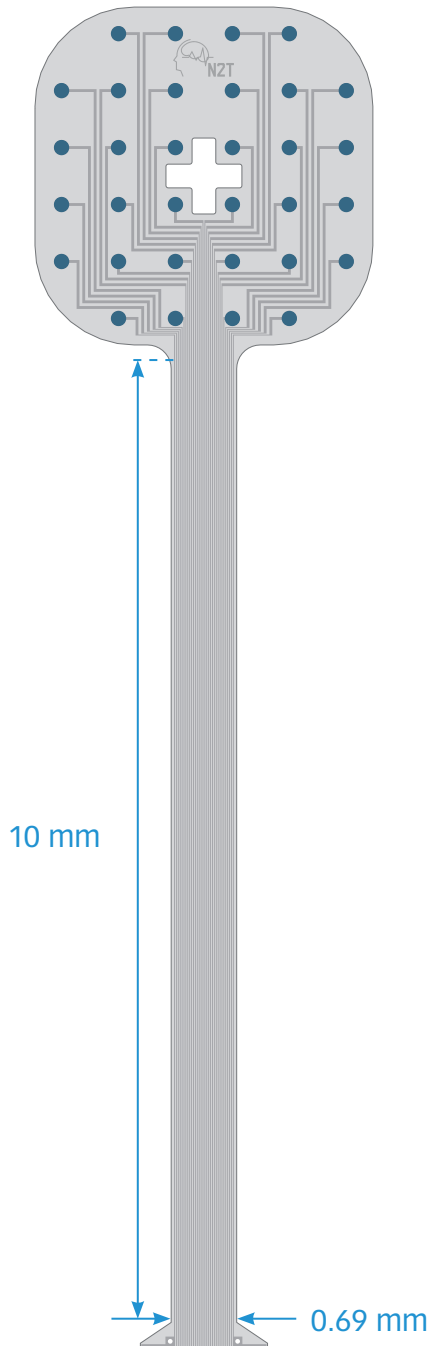
CHRONIC

- H32
- HC32
- HZ32
- X3-H32

thickness

15 μm

E32-600-10-100



available packages

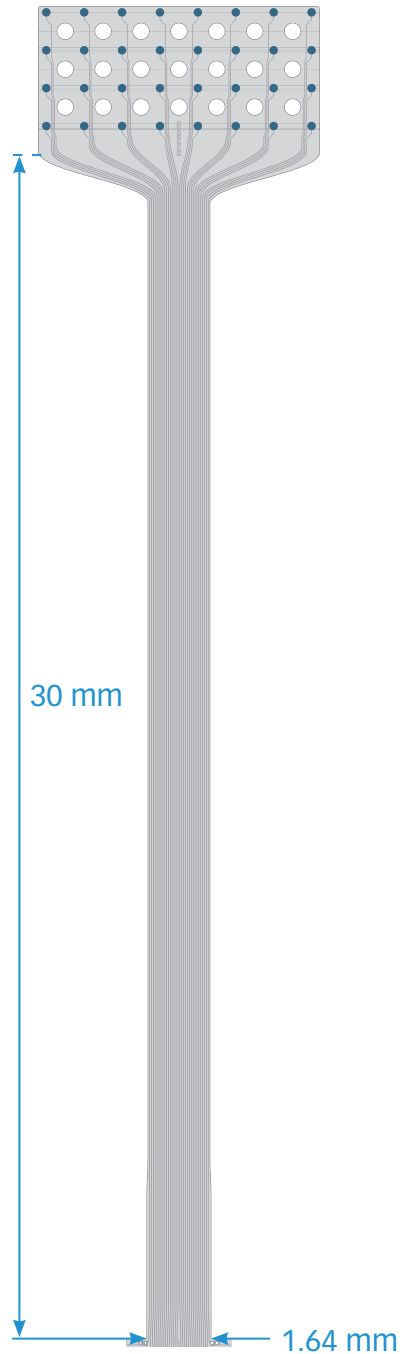
CHRONIC

H32
HC32
HZ32
X3-H32

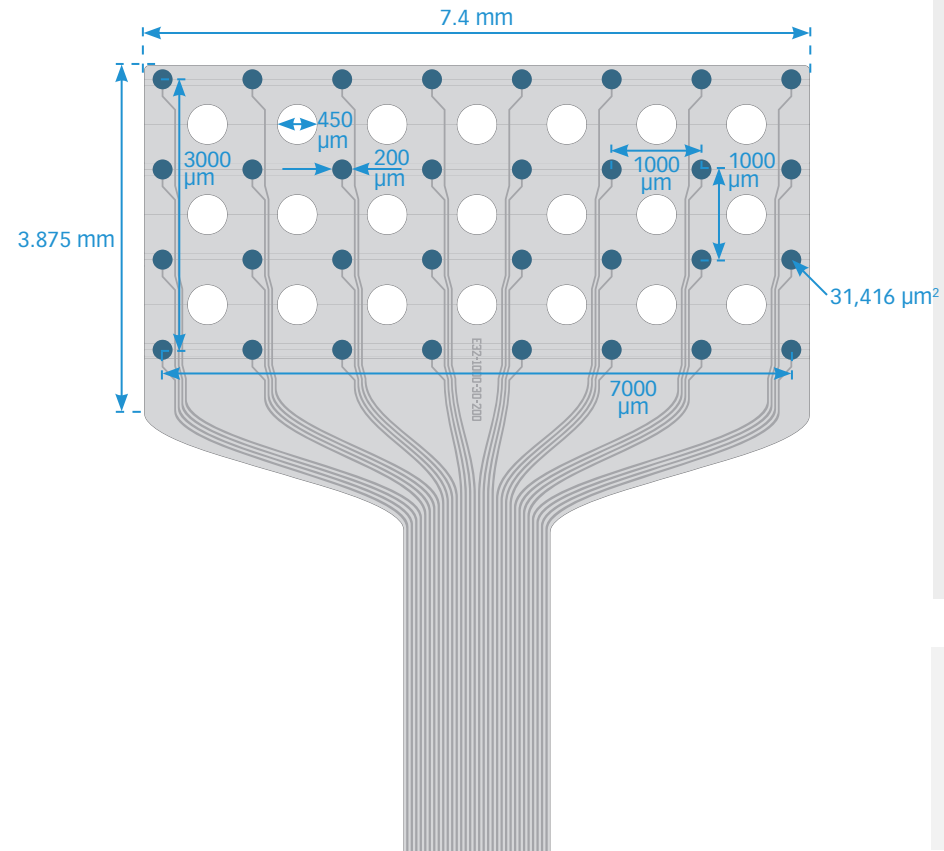
thickness

15 μ m

E32-1000-30-200



TIP DETAIL



available packages

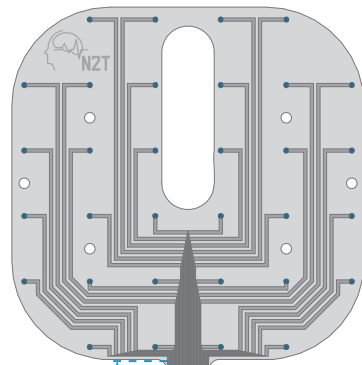
CHRONIC

H32
HC32
HZ32
X3-H32

thickness

15 μm

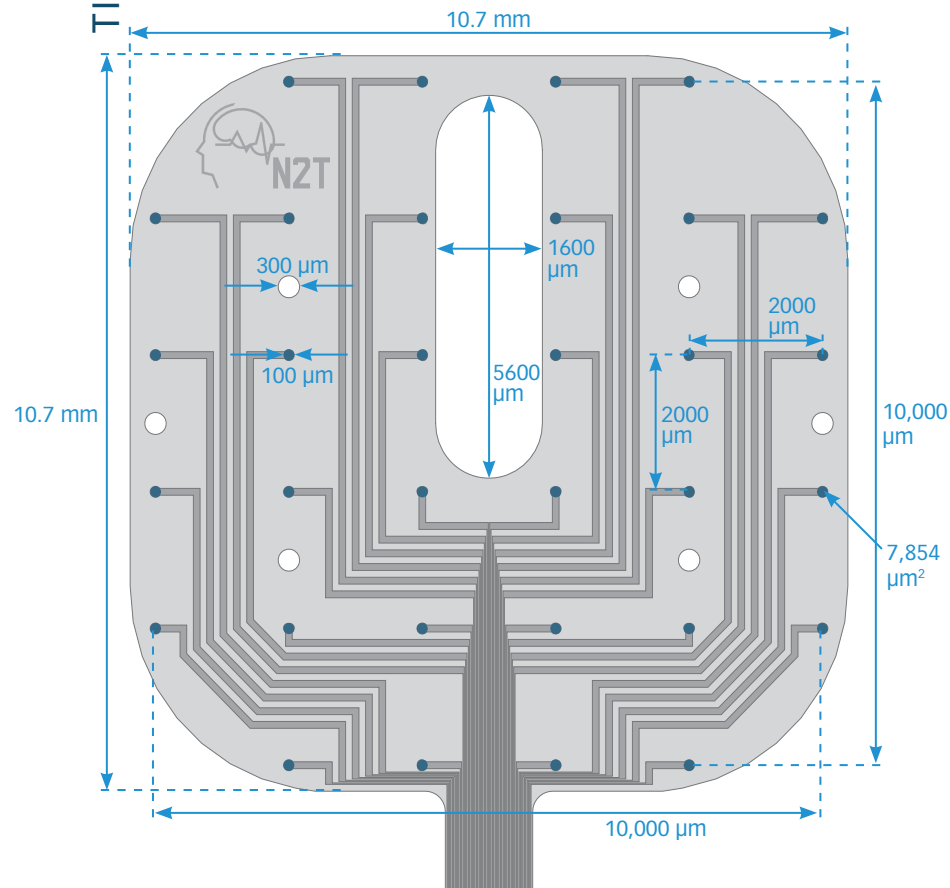
E32-2000-30-100



30 mm

1.31 mm

TIP DETAIL



available packages

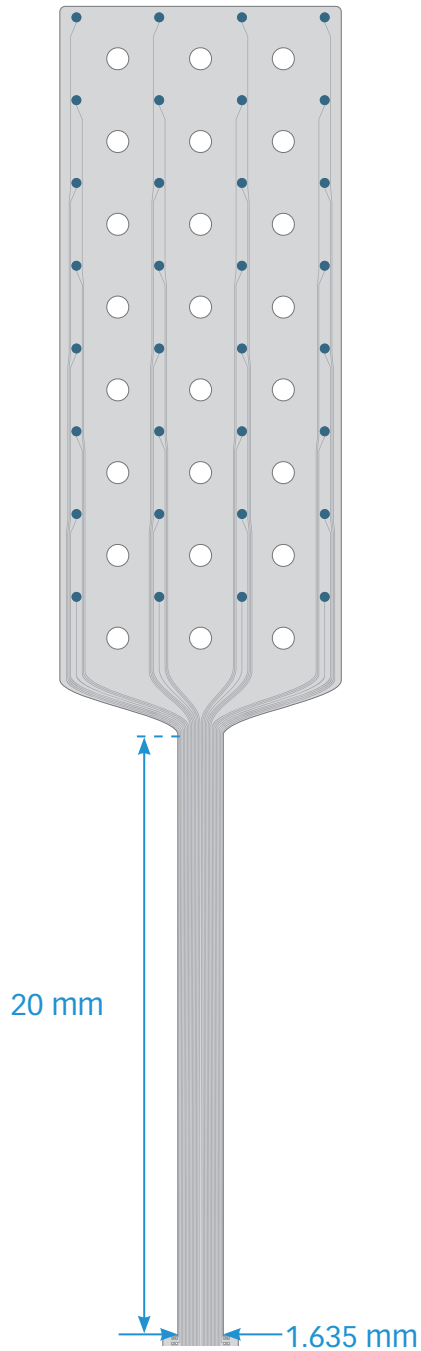
CHRONIC

H32
HC32
HZ32
X3-H32

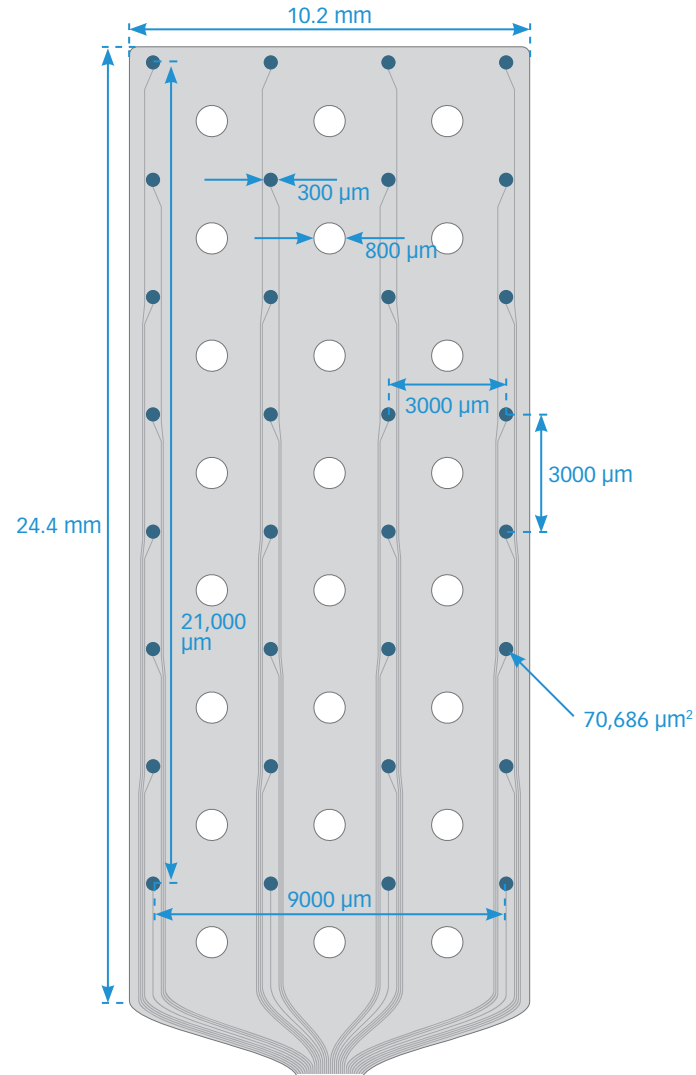
thickness

15 μm

E32-3000-20-300



TIP DETAIL



available packages

CHRONIC

- H32
- HC32
- HZ32
- X3-H32

thickness

15 μm

E64-500-20-60

available packages

- CHRONIC**
- H64
- H64LP
- HC64
- HZ64
- X3-H64

thickness

15 μm

TIP DETAIL

