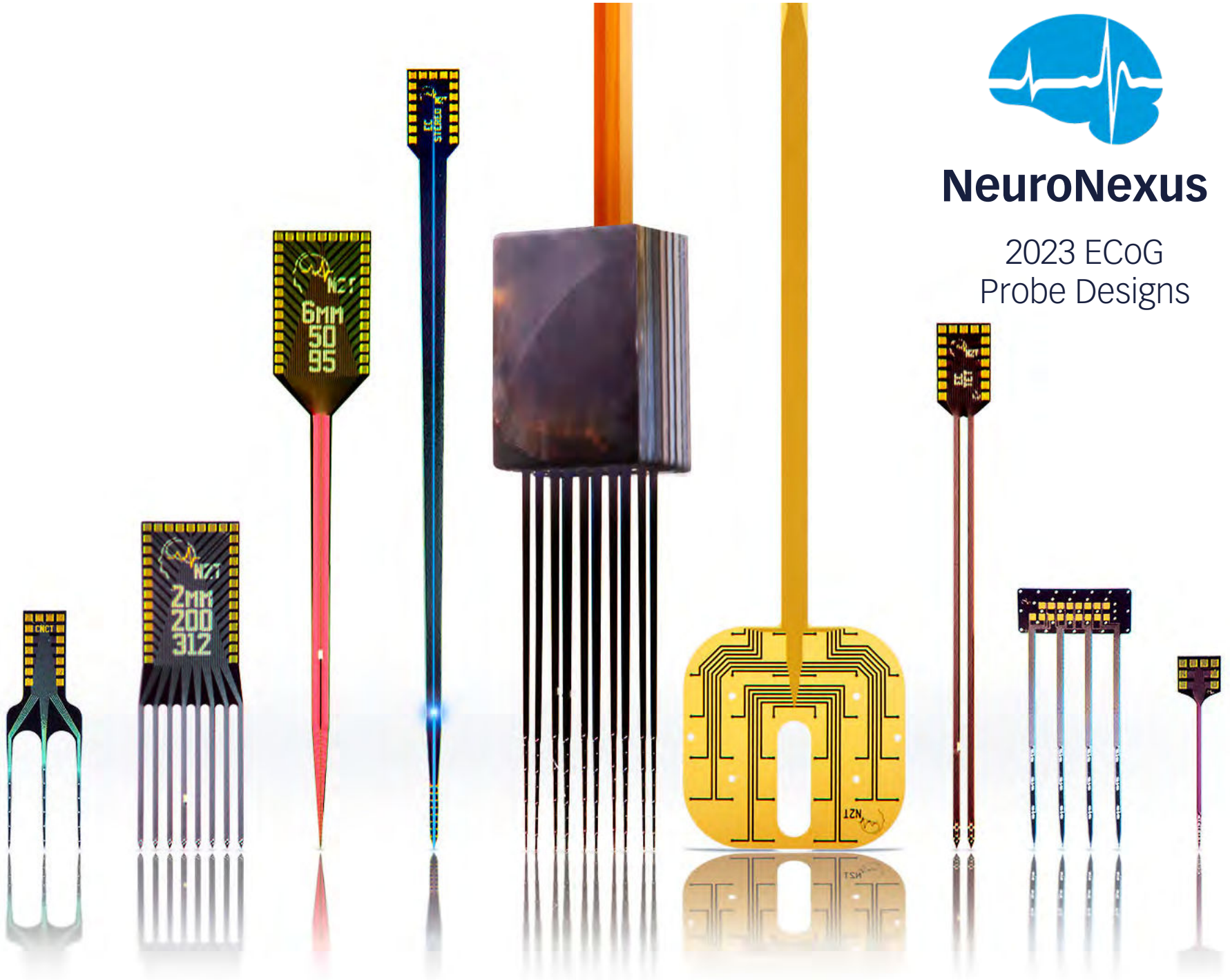


NeuroNexus

2023 ECoG Probe Designs

Welcome!

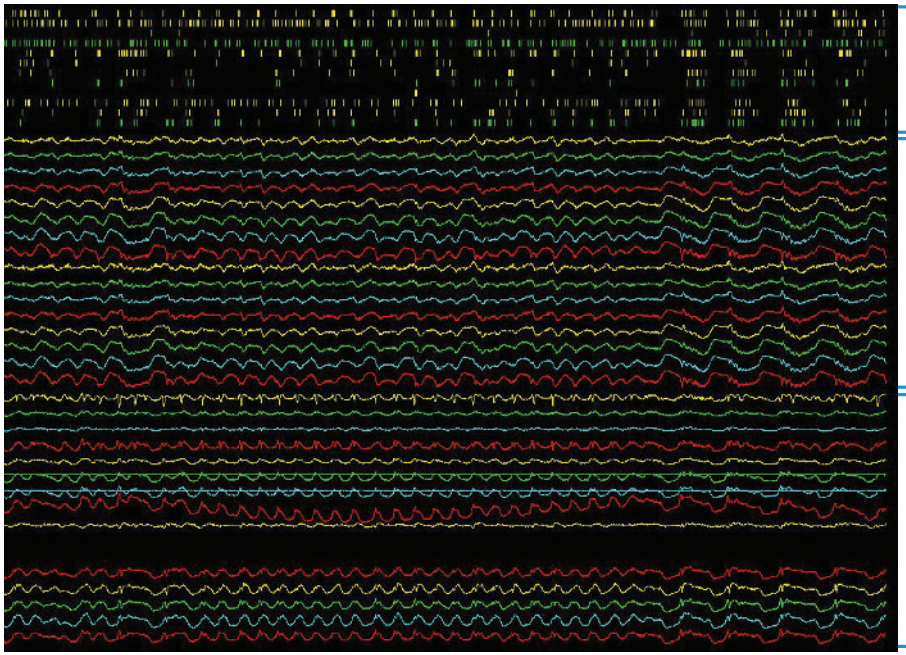
NeuroNexus is driven to empower discovery in the life sciences. Our focus and passion are to create high-performance interfaces to precisely targeted circuits in the central, autonomic, and peripheral nervous systems and end organs such as the heart, and our technologies and solutions extend from the 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.

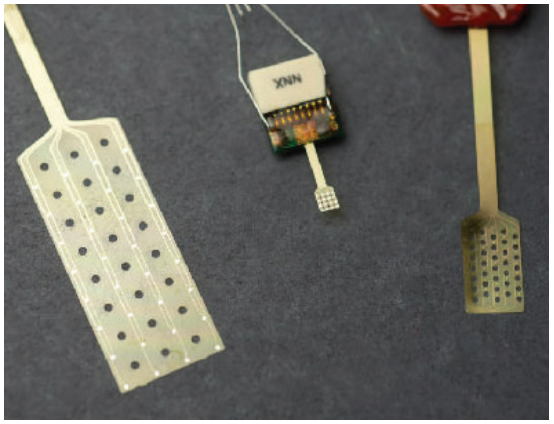
Thank you for your interest in NeuroNexus microelectrode arrays!

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 finesse 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!

Jamille F. Hetke, M.S.
VP Engineering
Neural Interface Technology, MEMS Design and Fabrication

ECoG





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

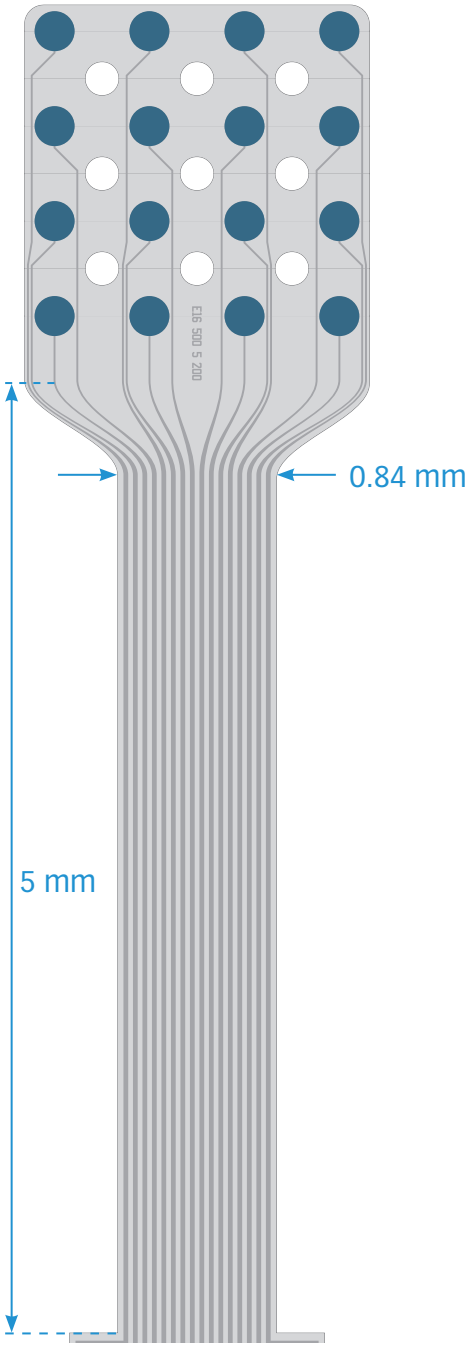
NeuroNexus **ECoG probes** are ultra-flexible surface grids with high recording resolution, designed to conform closely to the brain surface for electrocorticography.

- **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 µm
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



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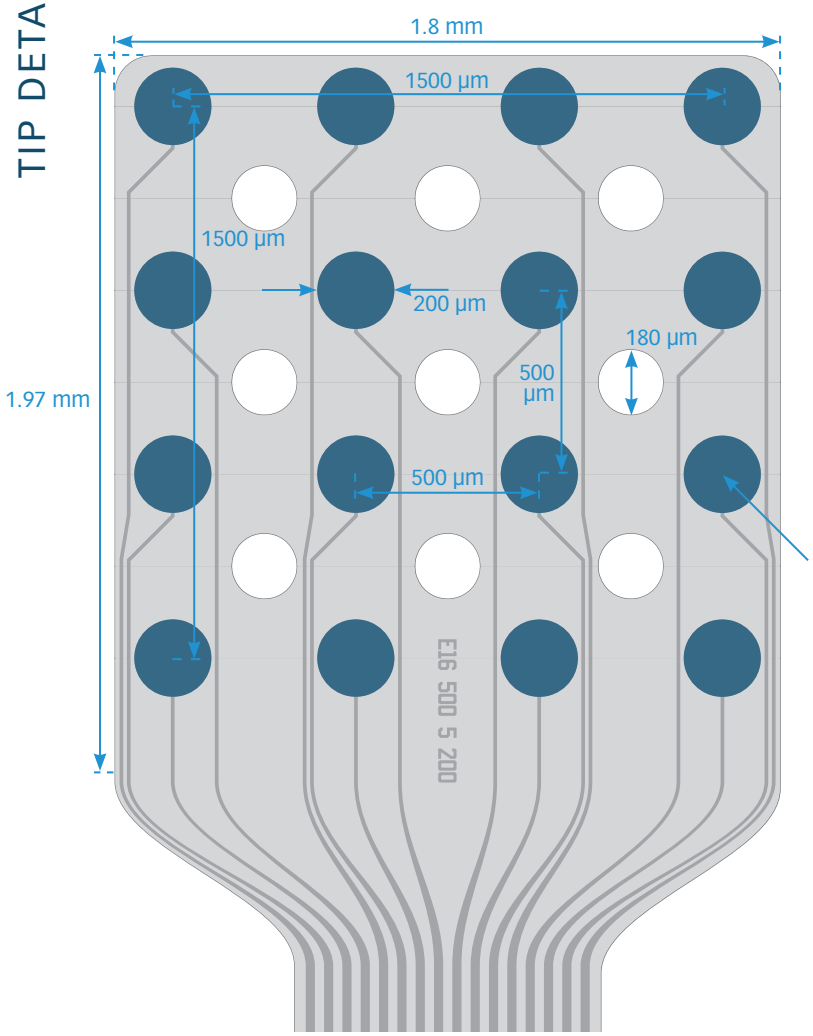


available packages

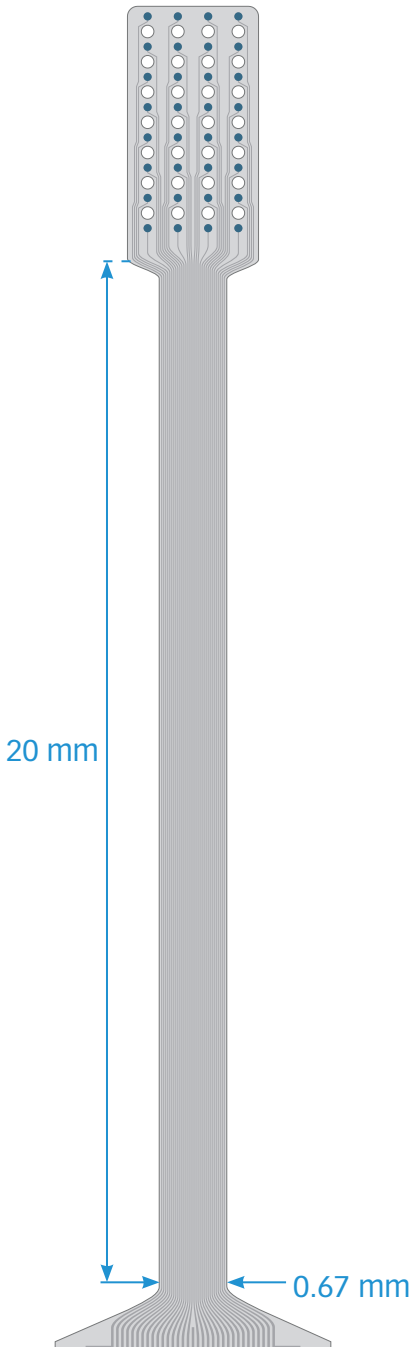
CHRONIC

H16
HC16
HZ16
X3-H16

thickness

15 µm

E32-300-20-50



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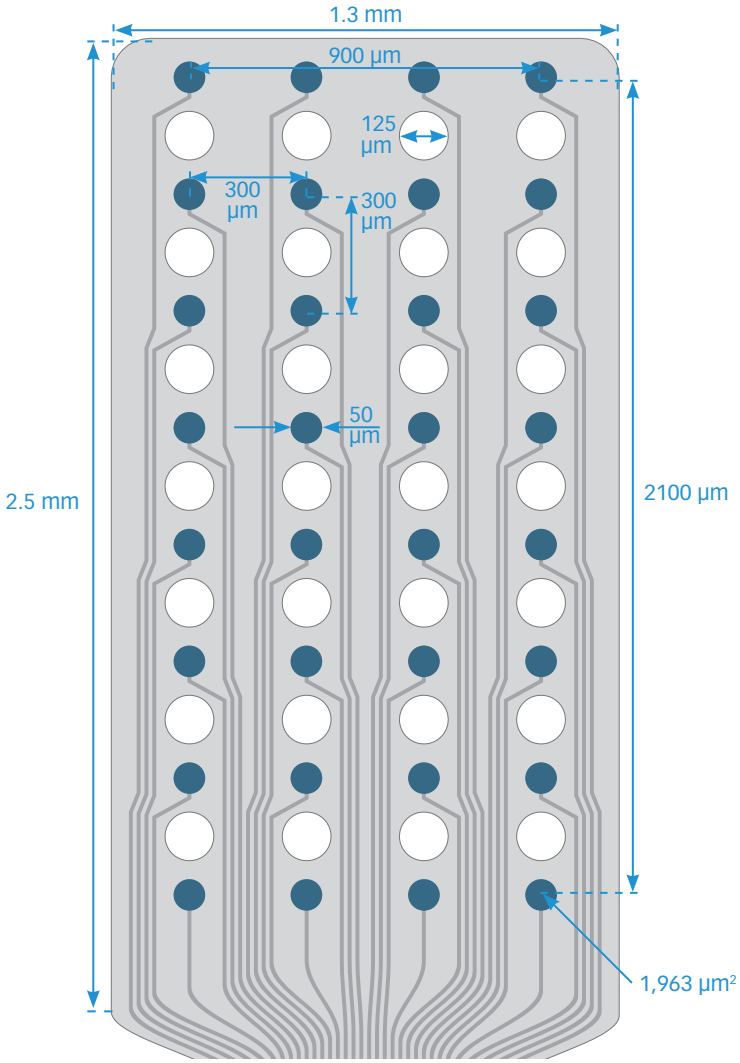


available packages

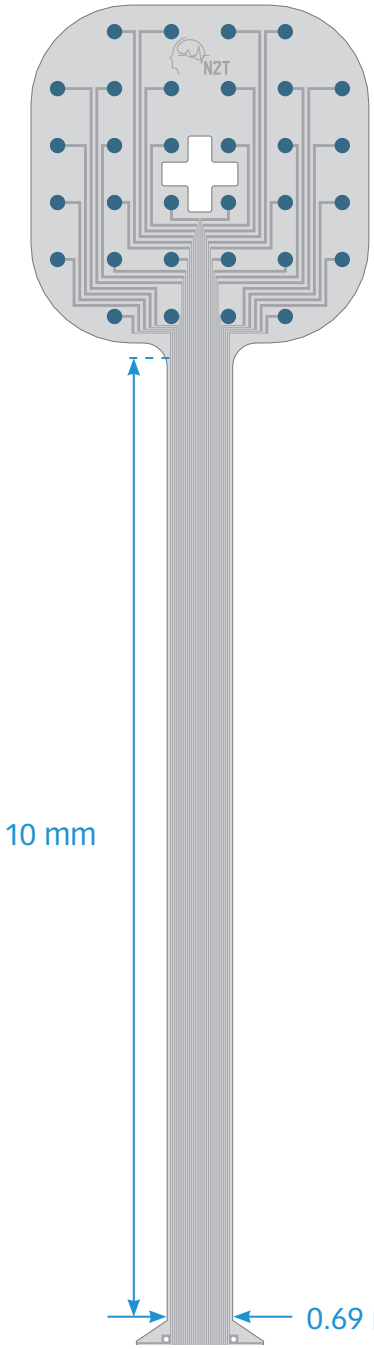
CHRONIC

H32
HC32
HZ32
X3-H32

thickness

15 µm

E32-600-10-100



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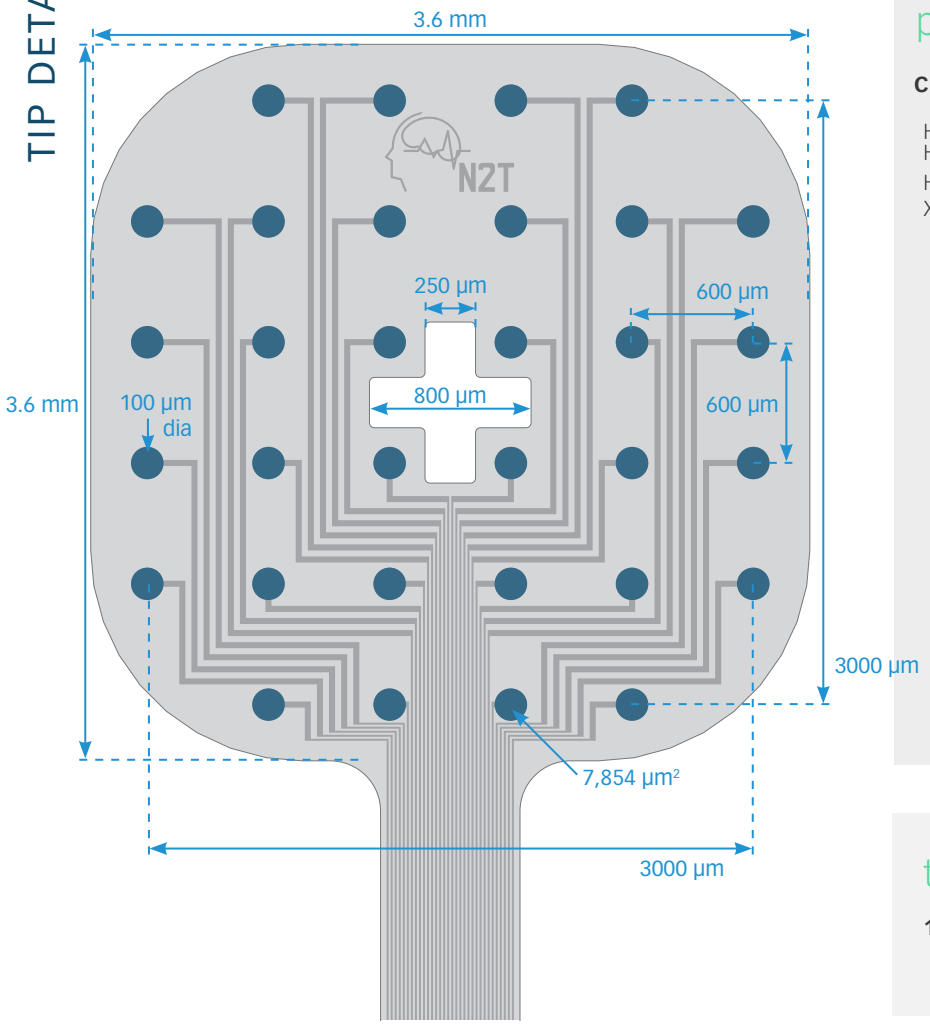


available packages

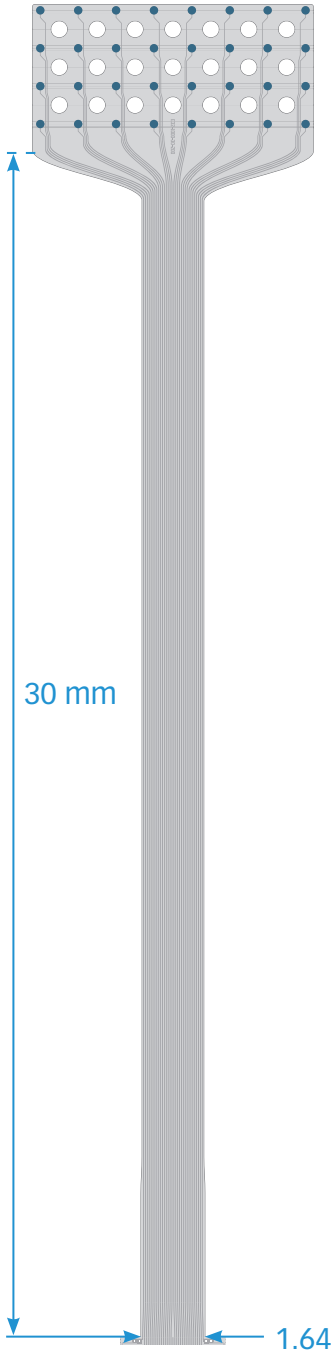
CHRONIC

H32
HC32
HZ32
X3-H32

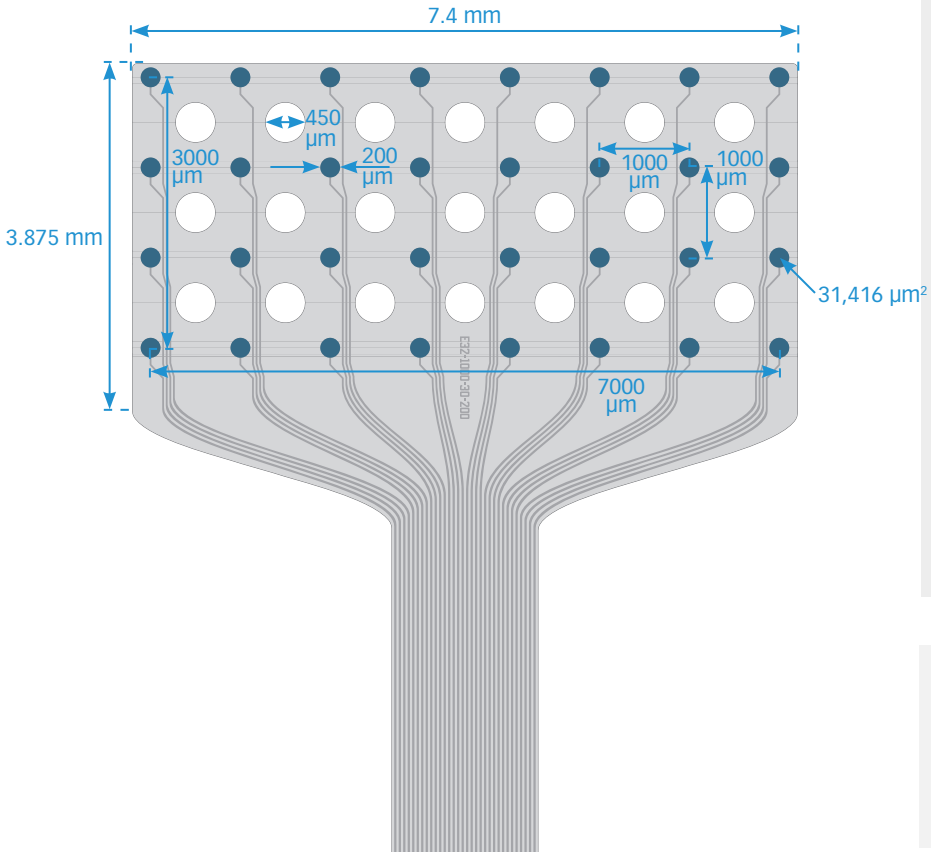
thickness

15 µm

E32-1000-30-200



TIP DETAIL



available packages

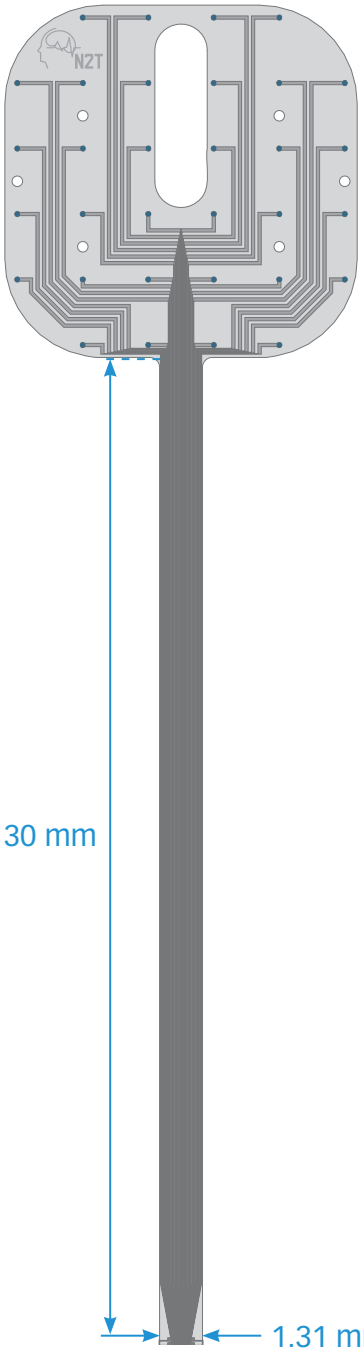
CHRONIC

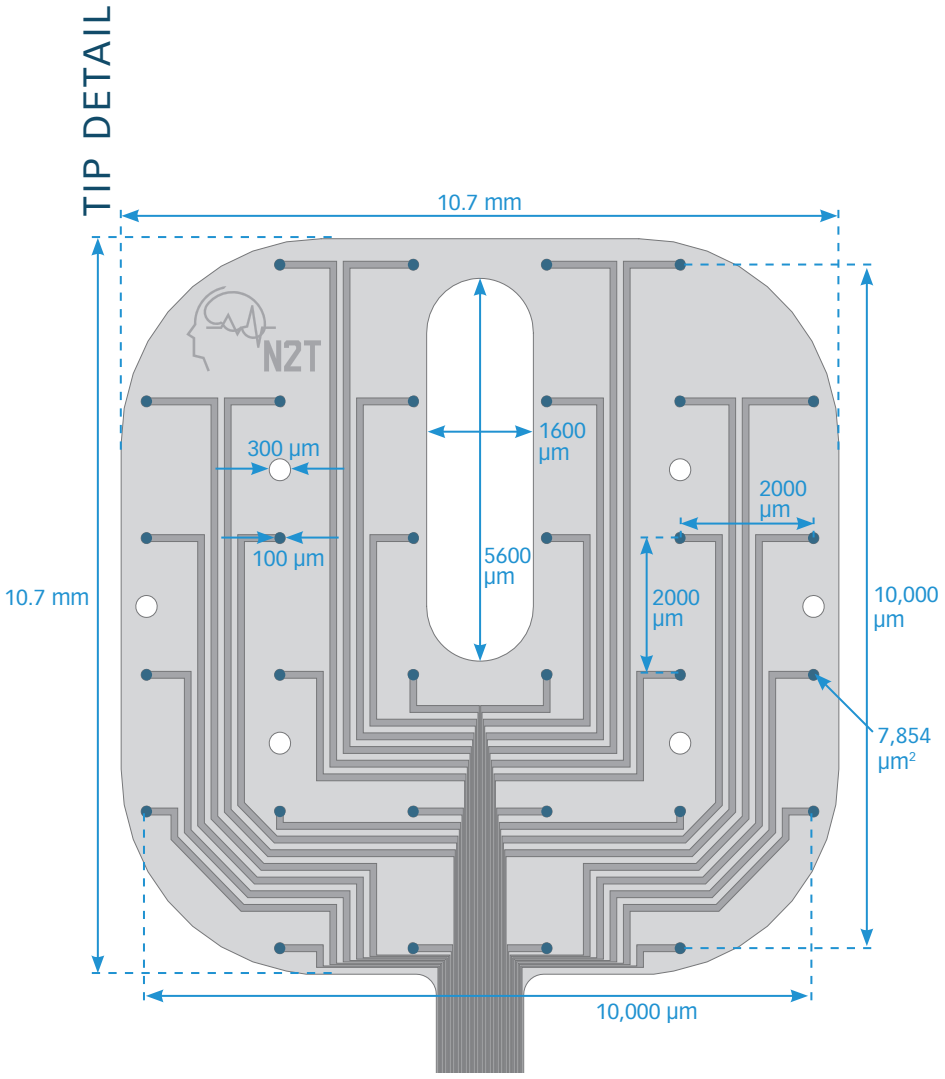
H32
HC32
HZ32
X3-H32

thickness

15 µm

E32-2000-30-100





available packages

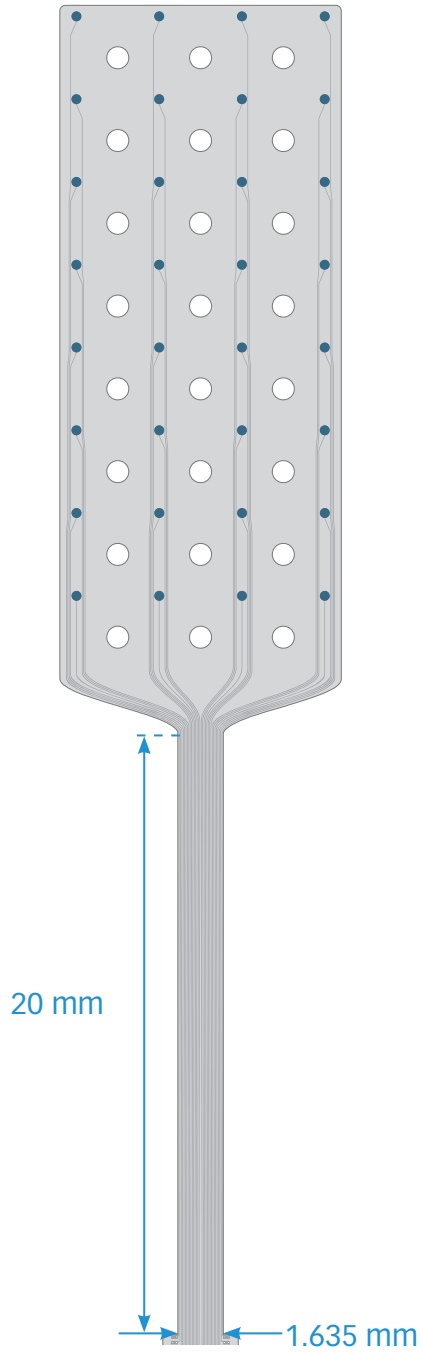
CHRONIC

H32
HC32
HZ32
X3-H32

thickness

15 µm

E32-3000-20-300



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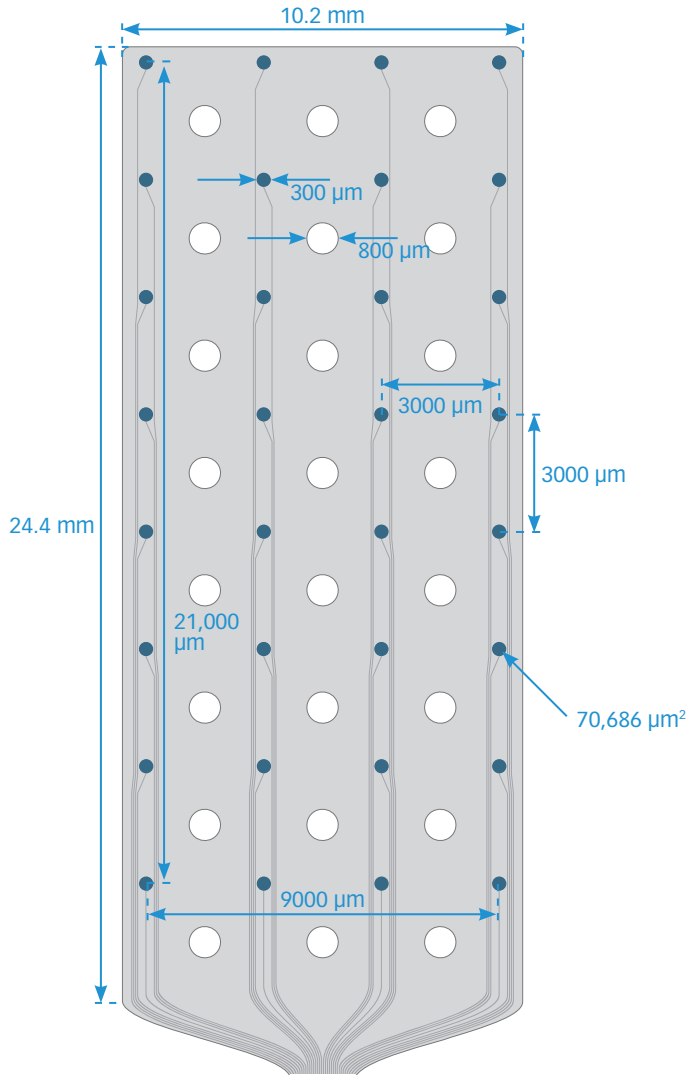


available packages

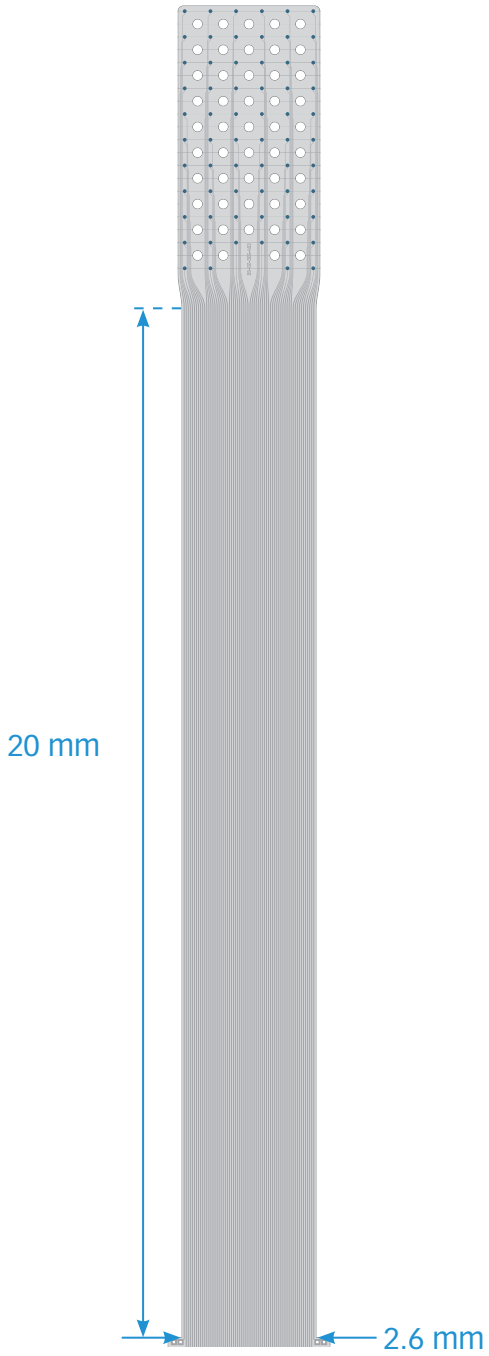
CHRONIC

H32
HC32
HZ32
X3-H32

thickness

15 µm

E64-500-20-60



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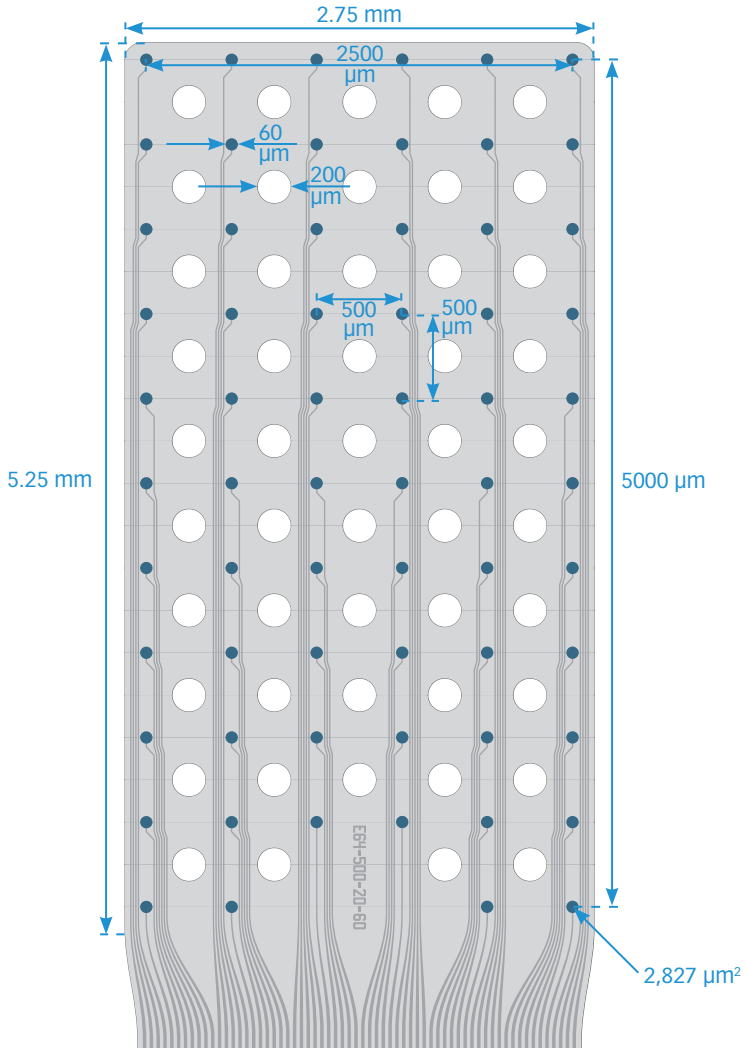

available packages

CHRONIC

H64
H64LP
HC64
HZ64
X3-H64

thickness

15 µm