

True aspect ratio; no shank thickening

Contact material	Porous TiN
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Head outline, pad layout and gold routing reproduce the supplied illustration. They are not a verified Neuropixels production connector.

10.000 mm

Concept
gold contacts

960 site
instances

2 mm

Orthographic; concept head

10 mm

2 mm

Orthographic

2 mm

Chisel + reference electrode

4

175 μm

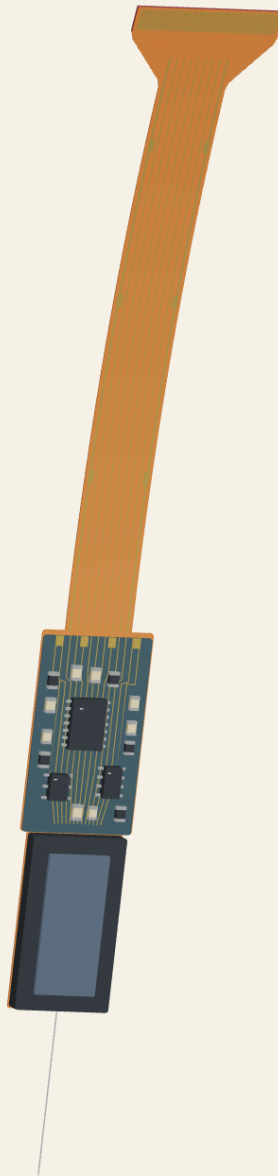
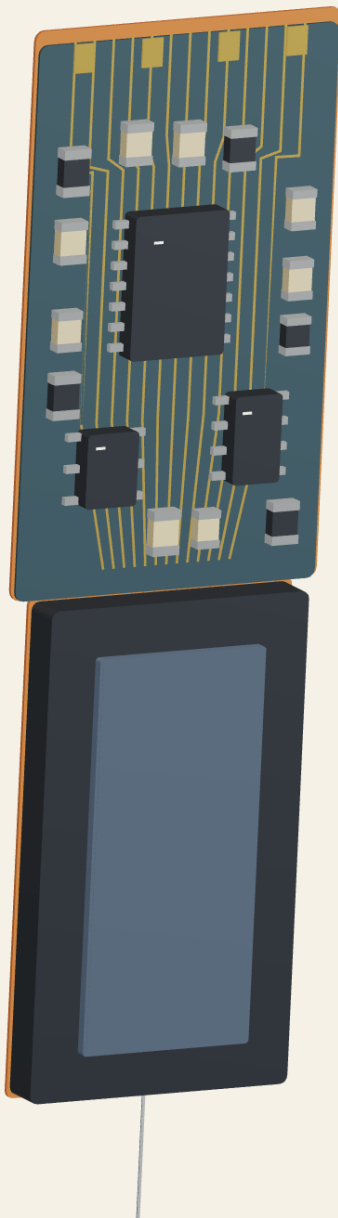
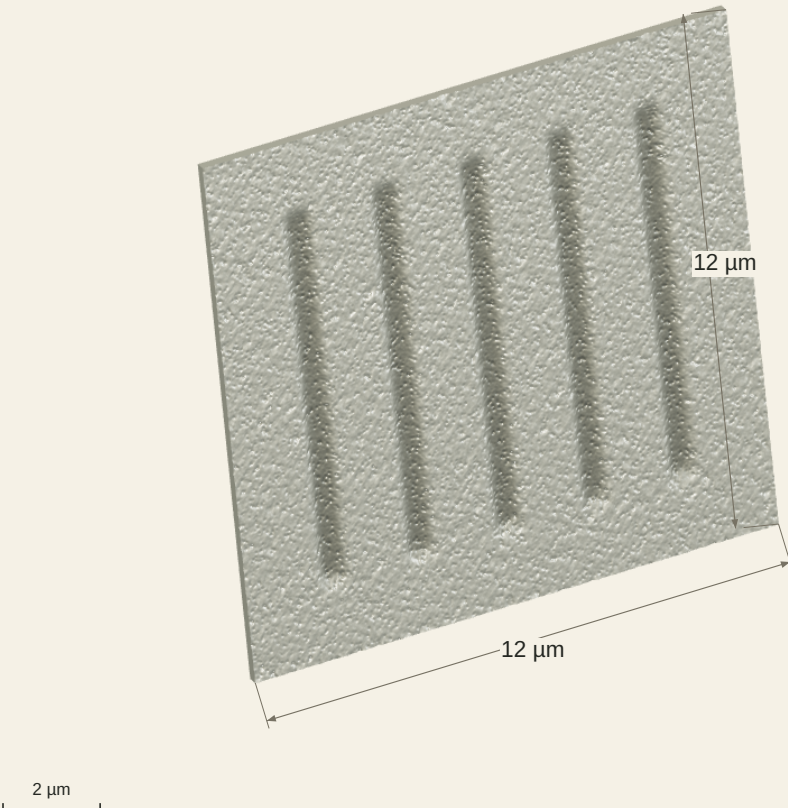
70 μm 50 μm

Four staggered column positions / two sites per row

70 μm 12 μm

An independent reconstruction; not manufacturer CAD.

REFERENCE — NOT FOR FABRICATION

A		B	C	D	E	F
BUILDTHE SIMULATION / NEURAL INTERFACE DRAWING SERIES						NPX-001
SURFACE & PACKAGE STUDY						REV 01 / SHEET 02 OF 02
NEUROPIXELS 1.0 / REFERENCE ASSEMBLY AND PROCEDURAL CONTACT DETAIL						25 OCTOBER 2026
1	G Reference assembly		H Proximal package		I Porous TiN surface	
	Published envelopes; reconstructed local geometry Flex shown at its 39.5 mm developed length.		Silicon cap, epoxy and populated flex base		High-resolution standalone contact model	
						
2			6.2 mm probe-base width / 7.2 mm SMD-base width. 3.9 × 8.5 mm silicon cap envelope. Component and conductor layout is illustrative.		WHAT THE MODEL RESOLVES	
					Five SEM-inspired grooves are explicitly modeled. Fine surface relief is procedural, with a fixed seed. The detail contact contains 52,482 triangles. An embedded normal map adds finer granularity.	
3					Pore size, density, shape and layer thickness are not measured. This is not an electrochemical surface-area or impedance model.	
4	MODEL VARIANTS				DELIVERABLES	
	Drawing-matched study: reproduces the supplied illustration’s head outline and gold fanout. Reference assembly: uses published package, flex and silicon-cap envelope dimensions. Both share the same 10 mm shank, 960-site lattice and reconstructed tip reference electrode. Gold-coloured conductors represent appearance, not a verified metallurgy stack or netlist. The 45-contact flex terminal is inferred from the documented mating interface; pitch is assumed.				GLB models in metres / editable builder in millimetres STEP nominal shank and square contact footprints Offline viewer / coordinates CSV / validation results NOT FOR FABRICATION OR IMPLANTATION	