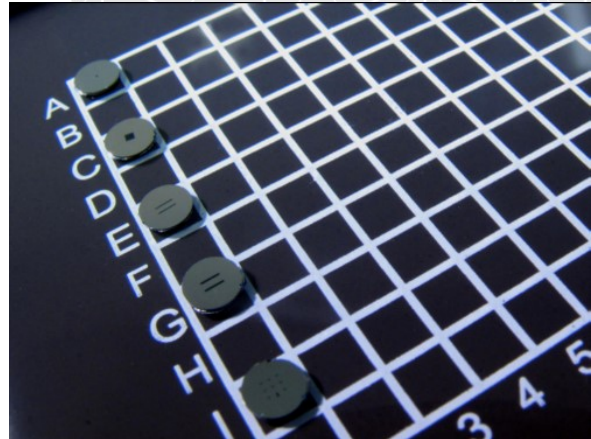


MEMS Solution for PerfectEdge TEM Membranes

Application

A Transmission Electron Microscope (TEM) allows visualization and analysis of specimens in the nano space domain. TEM's are used to produce images from samples by transmitting a beam of highly energetic electrons through the sample. An image is formed from the interaction of the electrons transmitted through the specimen; the image is magnified and focused onto an imaging device, such as a fluorescent screen or digital capture with a computer digitizing and archiving (CCD) camera. Quantitative and qualitative elemental analysis can be provided from features at atomic level, smaller than 1 nm.

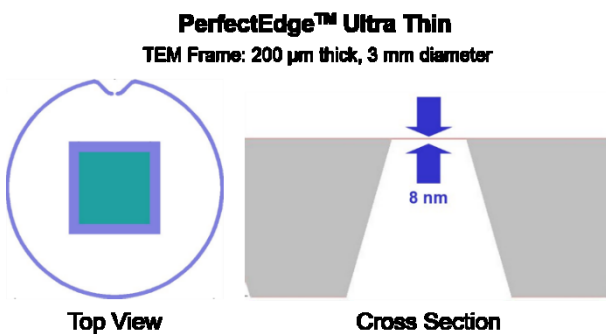


PerfectEdge Silicon Nitride TEM membranes

PerfectEdge Silicon Nitride TEM membranes are grown on 200 μm wafers to the required membrane thickness of 8 nm (ultra-thin, resulting in minimum absorption and top quality imaging), 15, 35, 50 or 100 nm on an industry standard 3mm diameter round frame, to ensure excellent manipulation and perfect handling by tweezers. We offer easy on-line customer configurable membrane thickness and grid geometries combinations.

PerfectEdge specifications

- The Silicon Nitride membrane frame is 200 μm thick which fits all standard TEM holders
- Clean, industry standard 3mm TEM frame diameter with perfect edges
- Ultra-low-stress, chemically and mechanically robust, 8nm to 100 nm membrane thicknesses
- Wide variety grid geometries, single and multiple windows
- PerfectEdge offers excellent manipulation and perfect handling by tweezers
- Fully compatible with all standard TEM specimen holders
- PerfectEdge TEM membranes are packaged under cleanroom conditions and contain minimum contamination
- Very cost-effective offerings



LIONIX INTERNATIONAL

LioniX International

LioniX International is a leading global provider of customized microsystem solutions in scalable production volumes.

We provide customized solutions for OEM's and System Integrators, from design to fully assembled modules, by vertical integration and in scalable production volumes. We maintain our technology leadership secured by a strong IP position.

LioniX International core competences are in Photonic Integrated Circuits (PIC), customized MEMS, and opto-fluidics.

Read more on <https://mems.lionix-international.com>

Our chips drive your business

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