Zyvex NanoEffector® Probes

Nanoscale Probes for Zyvex Nanomanipulator Systems

Features and Benefits

There are two major challenges with probing at the nanoscale: probing small features (50 nm contact) and probing small geometries (four 50 nm contacts within 100 nm of each other). Zyvex's NanoEffector Probes are designed to overcome both of these challenges. Their tip radius is better than 50 nm and allows for probing of extremely small features. The probes also have a high aspect ratio (length to diameter) which allows up to 8 probe tips within a 500 nm workspace. NanoEffector Probes are the most versatile and reliable probes on the market.

Applications

- · Electrical characterization of nanostrucutres for R&D
- Electrical characterization of integrated circuits for failure analysis
- · Micro- and nanoassembly
- · Sample preparation and positioning
- · Basic nanomanipulation
- Surface science experiments
- · Application notes are available at www.zyvex.com.

Technical Specifications

Material Polycrystalline Tungsten Wire

Length 14mmShank diameter 0.25 mm

• Effective tip radius Better than 50 nm

Average tip radius
Effective taper angle
Average taper angle
Tungsten purity
40 nm
Less than 15°
8°
99.9%

Note: Probes undergo a rigorous batch-by-batch inspection according to established statistical process control (SPC) standards. We qualify each batch of probes in an SEM for tip radius and taper angle.

Order Lead Time

Up to 100 probes 6 weeks

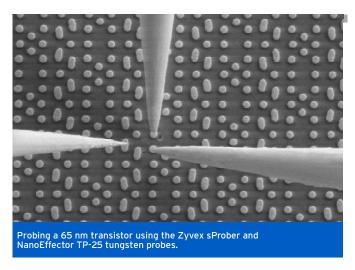
More than 100 probes Call for lead time

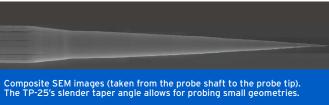
Note: There is a minimum order quantity of 20 probes.

To place an order, call us toll-free at 1.877.ZYVEX99 (1.877.998.3999) ext. 271 or direct at 972.792.1671. For the most up-to-date information, please visit our web site at www.zyvex.com or email sales@zyvex.com.

© 2008, Zyvex Instruments, LLC. All rights reserved. Zyvex, the Zyvex logo, NanoEffector, and NanoWorks are registered trademarks of Zyvex Instruments.

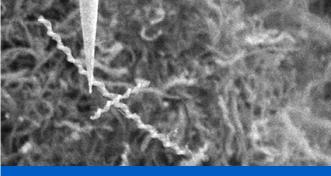








NanoEffector Probes used with the Zyvex S100 to perform four point electrical characterization of a germanium wire.



A NanoEffector Probe isolating and removing a coiled carbon nanotube for further characterization.

Document: S100-ZZDS-001M