

LASER MICROMACHINING SENSOR PROBES

Probe Shaping Application

Materials

Platinum
Tungsten

Feature Size

Tungsten Probe
Tip diameter = 0.050mm
Wire diameter = 1.0mm
Probe length = 3mm

Platinum Probe
Tip = 0.025mm diameter
Base diameter = 0.6mm
Feature length = 2.00mm

Laser Type

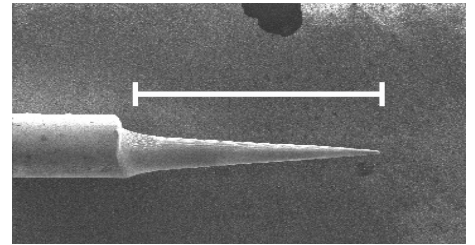
Picosecond Solid-State Laser

Industry Applications

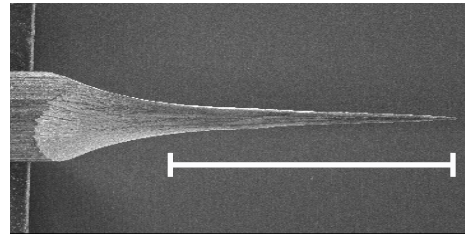
Specialized Microelectronics Probes

Application Description

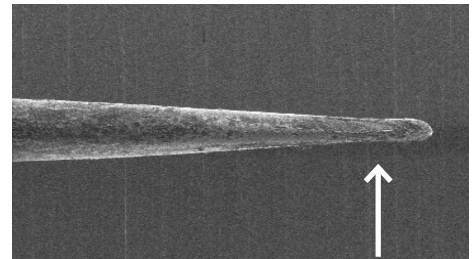
Picosecond laser micromachining allows precise material removal to form a smoothly sloped probe tip. The ability to machine micro-fine features with smooth contours, such as this application, is an attribute of picosecond laser micromachining.



Platinum: 2mm probe length



Tungsten: 3mm probe length



Tungsten tip
0.050 mm diameter

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