

Olympus Oxide-Sharpended Silicon Nitride Probe

Specifications

	Model OTR4	Model OTR8	Model ORC8
Force (or Spring) Constants	0.02, 0.08 N/m*	0.15, 0.57 N/m*	0.05, 0.10, 0.38, 0.73 N/m*
Resonant Frequency	11k, 34kHz (typ.)	24k, 73kHz (typ.)	18k, 19k, 68k, 71kHz (typ.)
Nominal Tip Radius of Curvature	≤ 20nm	≤ 20nm	≤ 20nm
Cantilever Width	---	---	20 & 40μm
Cantilever Lengths	100 & 200μm	100 & 200μm	100 & 200μm
Cantilever Configuration	V-shaped	V-shaped	Single Beam
Cantilever Thickness	400nm	800nm	800nm
Reflective Coating	Gold/Chromium	Gold/Chromium	Gold/Chromium
Shape of Tip	Square Pyramidal	Square Pyramidal	Square Pyramidal
Tip Half Angle	35°	35°	35°

* Spring constants are calculated from nominal cantilever dimensions.

* Corresponds to Olympus micro cantilevers, model #OMCL-TR/RC.

There are three different types of Olympus oxide-sharpened probes which are primarily differentiated by their cantilever thickness and cantilever shape.

Parts List

- Model OTR4-35 (1 strip of 35 Probes)
- Model OTR4-105 (3 strips of 105 Probes)
- Model OTR4-W (1 wafer of 500 Probes)
- Model OTR8-35 (1 strip of 35 Probes)
- Model OTR8-105 (3 strips of 105 Probes)
- Model OTR4-W (1 wafer of 500 Probes)
- Model ORC8-35 (1 strip of 35 Probes)
- Model ORC8-105 (3 strips of 105 Probes)
- Model ORC8-W (1 wafer of 500 Probes)



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