Micro cantilever

Product name

OMCL-TR400PSA-HW

Silicon nitride Triangular cantilever with Sharpened Pyramidal tip

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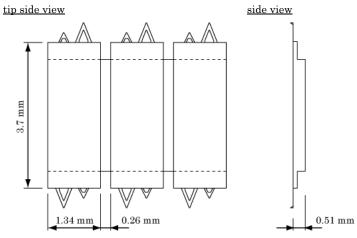
Product name Micro Cantilever OMCL TR400PSA-HW Lot No. OLYMPUS CORPORATION OLYMPUS Made in Japan

- <u>OMCL</u> <u>TR 400</u> <u>P SA</u> <u>HW</u> OMCL : Olympus Micro Cantilever
- TR: Triangular cantilever
- 400: Lever thickness of 400 nm
 - Pyramidal tip
- SA: Single side metal coating (reflex coat)
- $\rm HW$: ~~ Half wafer (7strips , 245 chips) / unit

<u>Chip</u>

There are two types of triangular cantilevers (100 μm and 200 μm long) on both sides of the glass chip.

Dimensions



<u>Material</u>

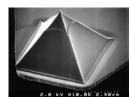
Tip & Lever	Silicon nitride	
Metal coating (reflex side)	Gold / Chromium	
Chip	Pyrex glass	

<u>Tip</u>

The tip is a hollow pyramid with a sharp apex (oxide sharpened).

Dimensions

lens	lons		Typical value
	Tip height	(µm)	2.9
	Tip radius	(nm)	< 20
	Tip angle	(deg.)	< 70
		r	Fin angle between diag

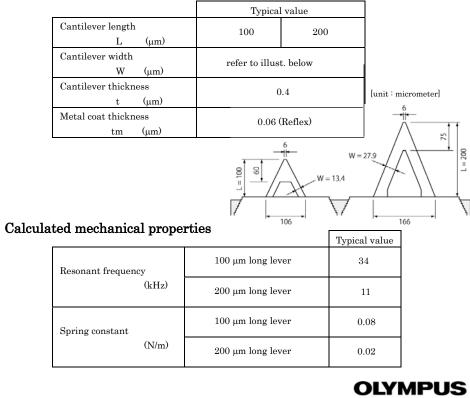


SEM micrograph of the sharpened pyramidal tip

Tip angle between diagonal ridges is less than 90 degrees.

<u>Cantilever</u>

Dimensions



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