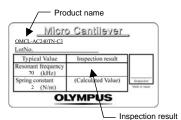
Micro cantilever

Product name

OMCL-AC240TN-C3

Silicon cantilever with a sharpened tetrahedral tip



OMCL - AC 240 T N - C 3

OMCL: Olympus Micro Cantilever

main application is AC mode measurement

Lever length of 240 µm sharpened Tetrahedral tip N:No reflex metal coating

24 chips / unit

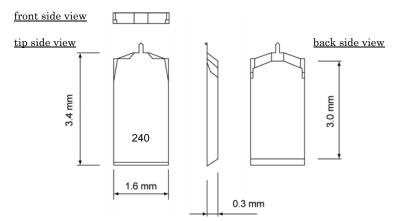
3: Chip thickness 0.3 mm,

Rectangular cross section chip

Chip

There is a rectangular cantilever on one side of the silicon chip.

Dimension

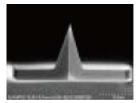


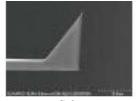
Material

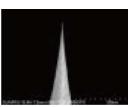
Tip & Lever	Silicon (0.01 – 0.02 ohm.cm)	
Metal coating (tip side)	Non	
Metal coating (ref; ex side)	Non	
Chip	Silicon (0.01 – 0.02 ohm.cm)	

Probe

The probe is a sharpened tetrahedral. The probe is fabricated on the exact end of each cantilever.







Front

Side

Front (probe apex)

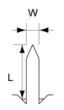
Dimensions

		Typical value	Typical range
Probe length		1.4	9 - 19
	(μm)	14	9 19
Tip radius		7	4 10
	(nm)	1	4 - 10
Probe		(axis) less than 17.5	
tip half angle	(deg.)	(side) less than 17.5	
Probe side		(front) 0, (back) 35	
tip angle	(deg.)	(side) 18, 18	

Cantilever

Dimensions

10115		
Cantilever length L (µm)	240 (±15)	
Cantilever width W (µm)	40 (±2)	
Cantilever thickness t (µm)	2.3 (±0.7)	



Calculated mechanical properties

	Typical value	Typical range
Resonant frequency (kHz)	70	50 - 90
Spring constant (N/m)	2	0.6 - 3.5



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