

Extended life high aspect ratio tips

Tips are coated with conductive, wear resistant metal carbide.

Smooth and well defined tip surface.

Tip Apex Specifications

Radius after coating:	~ 50 nm
Full cone angle:	< 10° for > 2 µm
Tip height:	> 9 µm

Available Cantilevers:

C = 40 N/m, fo = 300 kHz
C = 3.0 N/m, fo = 75 kHz

1 pack includes 5 probe-tips

Probe tips, cantilevers, and cantilever chips consist of single crystal silicon.

All cantilevers are shipped with Al-reflex coating (R).

The EL-HAR5 probes are also available with alignment grooves on the back side of the holder chip.

Shipments without reflex coating or with special coatings upon request.

All probe tips are SEM quality inspected prior to shipment.

Cantilever Dimensions:

Stiffness	Typical resonant frequency	Length	Width
40 N/m	300 kHz	125 (\pm 15) μ m	35 (\pm 3) μ m
3.0 N/m	75 kHz	225 (\pm 15) μ m	35 (\pm 3) μ m

Holder chip dimensions:

Length	3.40 mm
Width	1.55 mm
Thickness	0.315 mm

EL-HAR5 Lever: C = 40 N/m, C = 3.0 N/m

ReflexCoating: Al-reflex