Product Description

High Resolution High Resonant Frequency AFM Cantilevers HA_FM series are designed for Semicontact (Intermittent), Noncontact applications. Each probe has 2 rectangular cantilevers. Typical Resonant Frequency 114kHz / 77kHz (dispersion ±10%). Typical Force Constant 12N/m / 3.5N/m (dispersion ±20%). Cantilever has Au reflective side coating to increase laser signal. Probes are also available with no coating as well as with conductive tip coating.

Probes are packed in boxes with 15 and 50 pieces. Amount discount is included in the package price.

High Accuracy composite ETALON probes combine the main features allowing to obtain high quality AFM images:

- Sharp tip curvature radius < 10 nm.
- Resonance frequency, specified with high accuracy ±10% within a wafer.
- Special chip geometry with vertical sidewalls for convenient operating.
- · High aspect ratio tip.
- Enhanced back-side reflection of the cantilever.
- Cost effective price.

General Features

Material	Polysilicon cantilever, silicon tip				
Chip size	3.6x1.6x0.4mm				
Reflective side coating	Au				
Tip coating	No				
Tip curvature radius	< 10nm				
Available tip coatings	Pt, Au, W2C				

Special Features

Cantilever series	Cantilever	Cantilever length, L±2µm	Cantilever width, W±3µm	Cantilever thickness, T±0.15µm	Resonant frequency, kHz			Force constant, N/m		
					min	typical	max	min	typical	max
HA_FM	Α	183	34	3.0	100	114	130	4.5	6	7.5
	В	223	34	3.0	60	77	95	2.5	3.5	4.5