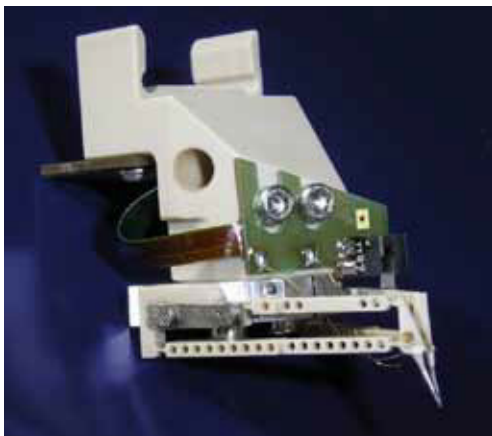


Technical Specification

Kelvin Needle



Kelvin Needle for flying probe test systems series A5neo, A5 , A6 , A7, A8 and S-Series.

Atg-L&M Part-no. **3A101821KS**

Electronics

Range 0,25 m Ω – 1 k Ω
Tolerance ± 0.025 m Ω \pm 2%

Mechanics

Contact pressure 0.3-2,5 g
Contact speed 5 -120 mm/s
Test speed up to 55 test points/s (double sided board) with pure 4-wire test

Kelvin Needles are available in two different adjustments:

Standard adjustment

Min. test pad size 80 μ m
Min. test pitch size 250 μ m

Fine pitch adjustment

Min. test pad size 60 μ m
Min. test pitch size 150 μ m

Typical durability: up to 10 million strokes (Standard adjustment)

Range	Test current	Test voltage	Typical low resistance accuracy	Measurement period
0-10 Ohm	90 mA/300mA	<10 V	0.5 mOhm \pm 3%	30 ms
10-100 Ohm	90 mA/300mA	<10 V	5.0 mOhm \pm 3%	20 ms
100-300 Ohm	90 mA/300mA	<10 V	20.0 mOhm \pm 1%	12-18 ms

Durability of Kelvin Needle can differ depending on product material (e.g. ceramics....), stroke setting and data preparation.

All information subject to change without notice. March 2014.