

SCA250

Kelvin probe



Kelvin probes are designed for low-level resolution measurements in high-current applications. The probe's single unit design is especially desirable for the best possible electrical characteristics, and improves tip control over conventional dual tip designs. These probes are much more convenient in applications requiring multiple contacts on a single pad, such as with LCR meter measurements. The Kelvin probe is offered in several sizes from 5 to 12.5 μm, with tip spacing in the range of 12.5 to 100 μm. Special tapers and customer bend profiles are also available. Please contact the factory with your unique application requirements.

Constructions

The probes are constructed of microwave-quality components. The 50 Ohm semi-rigid cable consists of 8 mil tungsten wire forming the inner conductor and probe point, isolated from the gold plated copper shield with a Teflon dielectric. The probe contact protrudes from the shielding by 0.150" to maintain low-level signal nose to the probe. The two coax probes are soldered together prior to plating to improve tip spacing and rigidity. The probes use industry standard SSMC connectors mounted into the probe body.

Note: Kelvin tips are non-replaceable

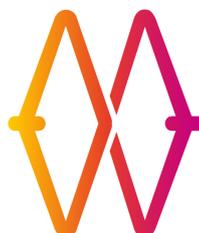
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Specifications

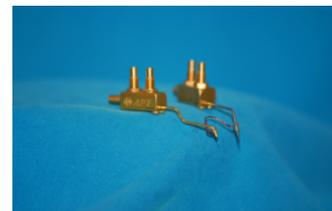
Current leakage	< 10 fA
Frequency	> 150 MHz
Capacitance	< 10 fF
Impedance	50 Ohm
Max power	125 W
Max voltage	250 V RMS
Max temperature	150 °C
Connectors	2 x SSMC
Tip material	Tungsten
Shielding material	Gold plated copper
Isolation	Teflon
Radius available	5 – 10 – 12.5 μ m
Pitch available	12.5 – 25 – 50 – 75 – 100 μ m



SSMC to BNC cable
SSMC to TRX cable



Micropositioner adapter



Ground strap