

SCA50 / SCA250 COAXIAL PROBE

Coaxial probes are used for general purpose probing. Frequency range is DC to 500MHz depending on the probe, holder and configuration chosen. Typical low currents to pico amp level also typically uses this type of probe and/or probe holder.

Construction

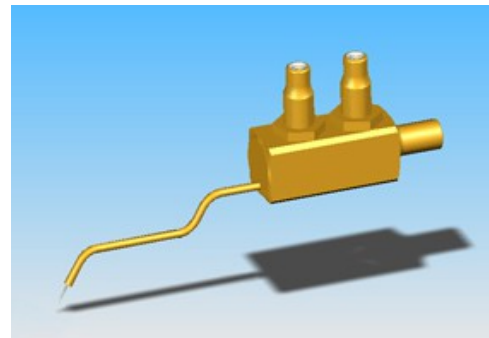
Coaxial Probes are constructed of microwave-quality components. The 50 Ohm semi-rigid cable consists of 8 mil tungsten wire forming the inner conductor and probe point, with isolation from the gold plated copper shield being achieved through the utilization a Teflon dielectric. The probe contact protrudes from the shielding by .150" to maintain low level signal noise to the probe. Probe point radii are electrochemically etched to 5µm or point size may be specified by the user. The connector is an industry standard SSMC, mounted in a brass mounting shank where it is attached to the coax.

Coaxial Probes are offered with optional Ground Plane, Kelvin and resistor series / parallel configurations.

SCA50 is Low Current Design with easily *replaceable coax probes*. Probe holder is provided with dual SSMC connectors that allows for low current testing to *less than 10 fA*. The second connector provides for Quasi-Kelvin connection for use with most LCR's for low capacitance measurements.

Features:

- Radius available: 0.5, 1.5, 5, 10, 12.5, 15, 20 µm
- Low current design
- Dual SSMC connections (BNC or Triax termination)
- Replaceable Coax Probe Design for quick replacements
- Current leakage, 5 fA
- 12A DC max
- Low Capacitance



SCA250 Coaxial Probes are designed for low level signal probing to *less than 10fA*. The probe's single unit design is especially desirable for the best possible electrical characteristics; however, in applications that can tolerate slightly higher noise levels, **SCA50** series of probe holders with replaceable points achieve similar results.

Features:

- True Kelvin connection
- Radius available: 5, 10, 12.5 µm
- Probe pitch (distance between probes): 12.5, 25, 50, 75, 100 µm
- Requires only one micropositioner for 2 connections
- Low current design
- Excellent for use with LCR's
- Less than 10 fA resolution
- Very low parasitic capacitance design

