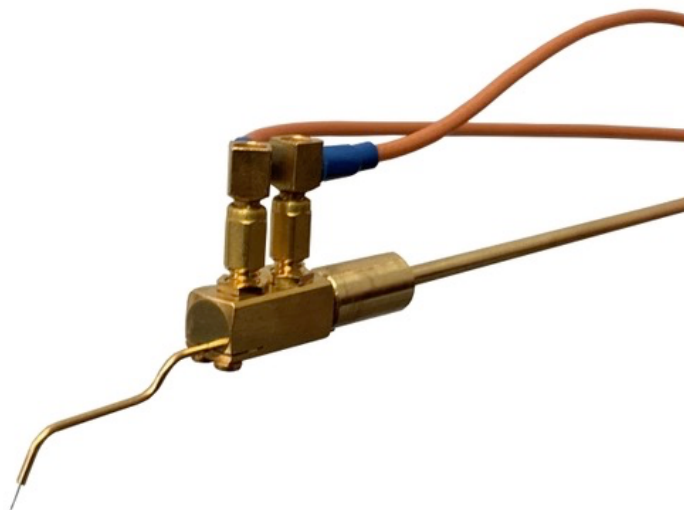


# SCA50

Coaxial probe



Coaxial probes are designed for low-level signal probing to less than 10 fA. The probe's single unit design is especially desirable for the best possible electrical characteristics, yet still offers the convenience of replaceable coax tips. The coaxial probe is also offered in optional ground plane and resistor terminated configurations. Several tip sizes are available from 0.5  $\mu\text{m}$  to 12.5  $\mu\text{m}$ . Special tapers and custom 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 probes use industry standard SSMC connectors mounted into the probe body.

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## Specifications

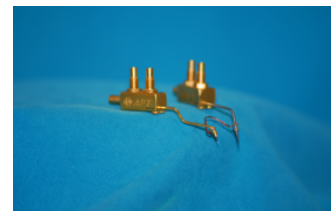
Current leakage	< 10 fA
Frequency	> 150 MHz
Capacitance	< 10 fF
Impedance	50 Ohm
Max power	125 W
Max voltage	250 V RMS
Max temperature	150 °C
Connectors	2 x SSMC
Tip material	Tungsten
Shielding material	Gold plated copper
Isolation	Teflon
Radius available	0.5 – 1 – 1.5 – 5 – 10 – 12.5 – 15 – 20 – 25 – 35 – 50 $\mu$ m



**SSMC to BNC cable**  
**SSMC to TRX cable**



**Micropositioner adapter**



**Ground strap**

