PRO**STAT[®]** Micro Probes Miniature Probes Designed to Measure Resistance of Small Areas

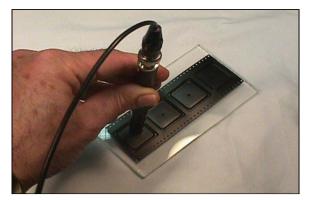
The **PRF-912B** Miniature Concentric Ring Fixture (E12 Micro Probe) accurately measures surface resistance of small areas. The 912B is capable of obtaining measurements up to 1.0x10¹² Ohms. The set consists of a PRF-912B Concentric Resistance Fixture, shielded cable equipped with BNC connectors, and a BNC to male banana instrument adapter.

The **PRF-914B** Miniature Concentric Ring Fixture (E14 Micro Probe) accurately measures surface resistance of small areas. The 914B is capable of obtaining measurements up to 1.0x10¹⁴ Ohms. The set consists of a PRF-914B Concentric Resistance Fixture, dual shielded cables equipped with SMA connectors, Ground Cord and a BNC to male banana instrument adapter.

Both the PRF-912B and the PRF-914B are designed to work with a precision wide range resistance instrument, such as the PRO**STAT**[®] PRS-801 Resistance System,



and an insulated test bed. They provide surface resistance measurements in ohms per ESD S11.11 Surface Resistance standard. To estimate ASTM D-257 Surface Resistivity in ohms/square, multiply the fixture measurement by 10, i.e., add one decade. Replaceable conductive electrode Ring and cap sets are available separately to enhance contact resistance on irregular surfaces and composition materials.



PRV-913B Dual Verification Fixture

Verify the proper functioning of the PRF-912B, PRF-914B and PRF-922B Probe Sets

PRF-922A-B Miniature Two-Point Probe Adapter

Adapter converts the PRF-912B or PRF-914B Probes to a precision Two-Point Probe

PRF-900 Stop

Miniature Probe Stopper for use with the PRF-912B or PRF-914B Micro Probes

PRF-MR

 Adapters reduce contact resistance between metal electrodes and specialty materials under test

Surface Resistance at it's best! The **PRF-922B** Miniature Two-Point Probe accurately measures point-topoint surface resistance of small areas and assemblies. The set consists of a PRF-922B Two-point Fixture, shielded cable equipped with BNC connectors, and a BNC to male banana instrument adapter. This assembly is supplied with replaceable conductive electrode caps to enhance contact resistance on irregular surfaces and composition materials. The 922B is designed for use with a precision wide range resistance instrument, such as the PRO**STAT**[®] PRS-801 Resistance System, and an insulated test bed. It provides point-to-point resistance measurements in ohms. The PRF-922B is capable of measurements up to 1.0x10¹² Ohms. Built-in distance stops provide consistent electrode to sample pressure for developing repeatable measurements.



PRF-912B Specifications

Range 0.9 – 1.0x10¹² Ohms (1.0E+12)

Dimensions Length: 5.9 inches (150mm) without cover. 6.5 inches (165mm) with cover. Probe diameter 0.5 inches (12.7mm). Probe cover outer diameter 0.63 inches (16mm)

Probe Weight 1.5 ounces (43 grams)

Finish Black anodized

Dielectric Material Teflon

Contact Size

Inner (Center) Contact Probe: 0.1 inches (2.54mm). Outer Contact Probes: Ten each 0.06 inches (1.59mm) diameter at 0.258 inches (6.56mm) bolt circle

Min. Sample 0.32 inches (8.2mm) diameter

Probe Spring Force/Test 3.5 pounds (1.6 kg)

Probe Travel 0.3 inches (7.8mm)

Connection BNC with outer source and inner sense connections

Cable RG-174 coaxial cable equipped with insulated BNC couplers, and BNC/Banana adapter for connection to Prostat PRS-801 Resistance System

Power Not applicable. Fixture powered by resistance instrument



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PRF-914B Specifications

Range 0.9 - greater than 1.0x10¹⁴ Ohms (1.0E+14) Dimensions Length: 6.3 inches (160mm). Diameter 0.5 inches (12.7mm). High resistance cable connection end: 0.88" (22.5 mm) x 0.68" (17.3 mm)

Probe Weight 2.0 ounces (57 grams)

Finish Black anodized

Dielectric Material Teflon

Contact Size

Inner (Center) Contact Probe: 0.1 inches (2.54mm). Outer Contact Probes: Ten each 0.06 inches (1.59mm) diameter at 0.258 inches (6.56mm) bolt circle

Min. Sample 0.32 inches (8.2mm) diameter

Probe Spring Force/Test 3.5 pounds (1.6 kg)

Probe Travel 0.3 inches (7.8mm)

Connection Dual SMA with Source on the right and Sense of the left with ground

Cable

Dual RG-174 coaxial cables equipped with SMA connectors. Instrument Adapter for connection to Prostat PRS-801 Resistance System equipped with BNC male terminals to fit cable BNC female fittings

Power Not applicable. Fixture powered by resistance instrument

PRF-922B Specifications

Range 0.9 – 1.0x10¹² Ohms (1.0E+12)

Dimensions

Length: 7.0 inches (178 mm) without cover. 7.70 inches (195mm) with cover. Probe diameter 0.5 inches (12.7mm). Probe cover outer diameter 0.63 inches (16mm)

Probe Weight 2.0 ounces (57 grams)

Finish Black anodized

Dielectric Material Black Delran

Contact Size

Electronic quality gold plated contact probes: 0.1-inch (2.54mm) diameter. Conductive synthetic rubber contact boots: 0.125-inch (3.18mm) diameter. Probes center-to-center spacing: 0.250 inch (6.35mm)

Min. Sample 0.32 inches (8.2mm) diameter

Probe Spring Force/Test 1.5 pounds (0.68 kg)

Probe Travel 0.25 inches (6.4mm) Self-Limited

Connection BNC with outer source and inner sense connections

Cable

RG-174 coaxial cable equipped with insulated BNC couplers, and BNC/Banana adapter for connection to Prostat PRS-801 Resistance System

Power Not applicable. Fixture powered by resistance instrument

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