



Ground Zero Electrostatics PRF-914 High Resistance Miniature Concentric Ring Fixture

PRF-914 High Resistance Miniature Concentric Ring Accurately measure surface resistance of small areas



Item Number
PRF-914

Contents

- ☼ PRF-914 High Resistance Miniature Concentric Ring
- ☼ Dual Shielded Cable
- ☼ BNC to Male Banana Adapter
- ☼ Probe cover
- ☼ 1 set Conductive Rubber Ring Adapters
- ☼ 1 each Spare Center Electrode Contact
- ☼ 2 each Spare Outer Contact Pins

Options:

- ☼ PRV-913 Verification Fixture
- ☼ PRF-922A Miniature Two-Point Probe Adapter
- ☼ PRF-900 Stop Miniature Probe Stopper

Packaging

Weight: 1 lbs (0.5 kg)
Length: 8.25 Inches (21 cm)
Width: 7.5 Inches (19 cm)
Height: 3.5 Inches (8.5 cm)

The PRF-914 Miniature E14 Probe Set accurately measures surface resistance of small areas up to 2.0×10^{14} ohms. It consists of a PRF-914 Concentric Resistance Fixture, dual shielded cables equipped with SMA and BNC connectors, and a BNC to male banana instrument adapter. The optional PRV-913 Verification Fixture is designed to confirm the proper operation of the PRF-912 and high resistance PRF-914 Miniature Probe Sets.

The PRF-914 is designed to work with a precision wide range resistance instrument, such as the PROSTAT PRS-801 Resistance System, and an insulated test bed. It provides 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.

Specifications

Range:

0.9 to greater than 1.0×10^{14} Ohms (1.0E+14)

ASTM D-257:

Correction from ohms to ohms/square Multiply by 10

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:

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.

Cables:

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.

Connection:

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

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)

Power:

Not applicable. Fixture powered by resistance instrument.

