

# Miniature Concentric Ring PRF-912B

## Data Sheet

**For precision resistance measurement of small areas up to  $1.0 \times 10^{12}$  ohms.**

The PRF-912B Miniature E12 Micro Probe Set accurately measures surface resistance of small areas up to  $1.0 \times 10^{12}$  ohms. It consists of a PRF-912B Concentric Resistance Fixture, shielded cable equipped with BNC connectors, and a BNC to male banana instrument adapter. The optional PRV-913B Dual Verification Fixture is designed to confirm the proper operation of all of the Prostat Micro Probes Sets.

The PRF-912B is designed to work with a precision wide range resistance instrument, such as the Prostat PRS-801 Resistance System, the PRS-812 Resistance Meter or the PAS-853 Resistance Audit System.





Data Sheet

Specifications

General Specifications	
Range	0.9 – 1.0x10 <sup>12</sup> Ohms (1.0E+12)
ASTM D-257	Correction from ohms to ohms/square Multiply by 10
Finish	Black anodized
Dielectric Material	Teflon
Contact Size	<b>Inner (Center) Contact Probe:</b> 0.1” (2.54 mm). <b>Outer Contact Probes:</b> Ten each 0.06” (1.59 mm) diameter at 0.258” (6.56 mm) bolt circle
Min. Sample	0.32” (8.2 mm) diameter
Probe Spring	Force/Test 3.5 lbs (1.6 kg)
Probe Travel	0.3” (7.8 mm)
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

Physical Specifications	
Length	5.9 inches (150mm) without probe cover 6.5 inches (165mm) with probe cover.
Probe Diameter	0.5 inches (12.7mm)
Probe Cover Outer Diameter	0.63 inches (16mm)
Weight	1.5 oz (43g)