

# Miniature Concentric Ring

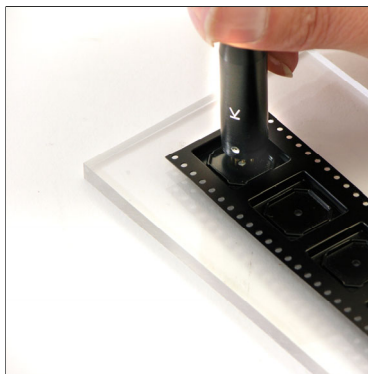
## PRF-912B



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

The PRF-912B 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 a BNC connector, and red and black banana jack to efficiently connect to any of the Prostat's resistance meters. The PRF-912B is designed in miniature to approximate surface resistance measurements typically obtained with the ANSI/ESD STM11.11 Surface Resistance Standard fixture. The PRF-912B, however, is approximately 1/10th the size of the ANSI/ESD STM11.11 fixture. Based on its size the PRF-912B is often referred to as a Miniature Concentric Ring.

The PRF-912B is designed to be used with a precision, wide range resistance instrument, such as the Prostat PRS-801B Resistance System, the PRS-812B Resistance Meter or the PAS-853B Wide Range Ohmmeter, and an insulated test bed.





## Data Sheet

### Specifications

General Specifications	
Range	0.90 – 1.0x10 <sup>12</sup> Ohms (1.0E+12)
Finish	Black anodized
Dielectric Material	Black Delrin
Contact Size	<b>Inner (Center) Contact Probe:</b> 0.10" (2.54 mm) diameter <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 lb (1.60 kg)
Probe Travel	0.30" (7.8 mm) Self-limited
Connection	BNC with outer source and inner sense connections
Power	Fixture powered by resistance instrument

Physical Specifications	
Length	6.75 inches (171mm) without probe covers 8.25 inches (210mm) with probe covers
Probe Diameter	0.49 inches (12.45mm)
Probe Cover Diameter	0.60 inches (15.25mm)
Weight	2.0 oz (58g)

PRF-900L Adapter Lead	
Length	5 feet (160 cm)
Connection to Microprobe	4mm BNC Female Connector
Connection to Resistance Meter	2 each Banana Plugs Distance Center to Center: 0.75" (19 mm)
Rated Values	600 V, CAT III / 1000 V, CAT II
Surface Treatment Electrical Contact	Au; Ni
Color	Cable: Black Banana Plugs: 1 Red, 1 Black
Approvals	RoHS, UL, CE, UKCA

PRF-MR55 Adapter Boots & Rings	
Material	Rubber
Resistance	Less than 2 ohms
Boot Height	0.115 inches (2.92 mm)
Boot Diameter	0.123 inches (3.12 mm)
Ring Height	0.115 inches (2.92 mm)
Ring Diameter	0.319 inches (8.10 mm)
Color	Black



Phone +1 (630) 238-8883 Fax +1 (630) 238-9717

[www.prostatcorp.com](http://www.prostatcorp.com)

©2024 Prostat Corporation. All rights reserved. Prostat, Prostat Corporation and the Prostat logo are trademarks or registered trademarks of Prostat Corporation or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. Complying with all applicable copyright laws is the responsibility of the user. Prostat reserves the right to change, without notice, product offerings or specifications. Printed in U.S.A. REV3: 11/18/24