

Miniature Two-Point Probe PRF-922B

Data Sheet

Accurately measures point-to-point resistance of small areas from 0.9×10^{12} ohms.

The PRF-922B Miniature Two Point probe accurately measures point-to-point resistance of small areas. Like Prostat's PRF-912B Miniature Concentric Ring, the PRF-922B is capable of measurements up to 1.0×10^{12} ohms. Built-in distance stops provide consistent electrode to sample pressure for developing repeatable measurements. Use the PRF-922B to measure small material samples, hard to assess molded areas, edges of parts, tray or tape cells and other very small objects and surfaces. The assembly is supplied with replaceable conductive electrode covers to enhance contact resistance on irregular surfaces and composition materials. Thus, measurements may be made with either the gold plated electrode contacts, or via conductive rubber covers.

The PRF-922B is designed to be used 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, and an insulated test bed. When used with the supplied conductive rubber boots, it provides point-to-point resistance measurements in accordance with ANSI/ESD STM11.13.





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Specifications

General Specifications	
Range	0.9 – 1.0x10 ¹² Ohms (1.0E+12)
ASTM D-257	Correction from ohms to ohms/square Multiply by 10
Finish	Black anodized
Dielectric Material	Black Delran
Contact Size	Electronic quality gold plated contact probes: 0.1” (2.54 mm) diameter. Conductive synthetic rubber contact boots: 0.125” (3.18 mm) diameter. Probes center-to-center spacing: 0.250” (6.35 mm)
Min. Sample	0.32” (8.2 mm) diameter
Probe Spring	Force/Test 1.5 lb (0.68 kg)
Probe Travel	0.25” (6.4 mm) 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 Instrument
Power	Not applicable. Fixture powered by resistance instrument

Physical Specifications	
Length	7.0 inches (178mm) without probe cover 7.7 inches (195mm) with probe cover.
Probe Diameter	0.5 inches (12.7mm)
Probe Cover Outer Diameter	0.63 inches (16mm)
Weight	2.0 oz (58g)