

Keithley Instruments
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Resistivity Test Fixture Specifications

GENERAL SPECIFICATIONS

Operating voltages	1 kV _{peak} source (safety banana plugs supplied with the 6517) 200 V _{peak} measure (triaxial, 3-lug) 200 _{peak} common mode 0.1 A peak test current 1 VA	
Volume resistivity range	10 ³ to 10 ¹⁸ Ω-cm	
Surface resistivity range	10 ³ to 10 ¹⁷ Ω	
Center electrode	50.8 mm O.D. ± 0.05 mm (2.0 in. ± 0.002 in.) conductive rubber pad	
Electrode concentricity	Within 0.01 in. of center of ring electrode	
Ring electrode	57.2 mm I.D. ± 0.05 mm (2.25 in. ± 0.002 in.)	
Top electrode	85.7 mm O.D. ± 0.05 mm (3.375 in. ± 0.002 in.), 54 mm diameter (2.125 in.) conductive rubber pad	
Electrode material	#303 stainless steel	
Pad durometer	70 Shore A	
Pad resistivity	Volume = 10 Ω square maximum	
Sample size (minimum)	63.5 mm diameter (2.5 in.) (surface)	
Sample size (maximum)	101.6 mm sq. × 3.2 mm thick (4 in. × 0.125 in.)	
Interlock	4-pin, for use with the 6517	
Test force	Center electrode	6 lbs minimum; 1.9 psi, 13.2 kPa 10 lbs maximum; 3.2 psi, 21.9 kPa
	Ring electrode	2 lbs minimum; 9.3 psi, 64.1 kPa 23 lbs maximum; 107 psi, 737.6 kPa (dependent upon sample thickness)
Operating temperature	-30 °C to 80 °C	
Operating humidity	0% relative humidity to 65% relative humidity up to 35 °C, linearly derate 3% relative humidity per degree above 35 °C	
Dimensions	107.95 mm high × 165.1 mm wide × 139.7 mm deep (4.25 in. × 6.5 in. × 5.5 in.)	
Weight	1.45 kg (3.19 lbs)	

