KEYSIGHT TECHNOLOGIES (AGILENT HP)

16194A

The Keysight 16194A is a high-temperature SMD test fixture designed for impedance evaluations of surface-mount devices up to 500 MHz. Operating over a wide temperature range from -55 °C to +200 °C, it is ideal for environmental chamber testing of capacitors, inductors, and other SMD components.

SPECIFICATIONS

General

Interfaces	APC-7 connector
Furnished Accessories	Carrying case, wrench, tweezers, shorting bars (1.0x0.5 mm, 1.6x0.8 mm, 2.0x1.2 mm, 3.2x1.6 mm)

Physical

Operating Temperature	-55 °C to +200 °C °C
Dimensions (W×H×D)	150 mm × 40 mm × 80 mm mm
Weight	350 g kg

Electrical Specifications

Frequency Range	DC to 500 MHz
Maximum DC Bias Voltage	±40 V
Maximum Voltage (AC+DC peak)	±40 V

Instrument Connections

Connector Type to Instrument	APC-7
Terminal Configuration	7 mm

DUT Compatibility

Supported Component Types	SMD (Surface Mount Devices)
Compatible SMD Case Sizes (Imperial)	0603 to 2220
Compatible SMD Case Sizes (Metric)	1608 to 5650

Calibration and Compensation

Open/Short Compensation Support	Yes
Load Compensation Support	No

Physical and Environmental

Operating Humidity Range (Non-Condensing)	< 95% RH (@ 40 °C)

Instrument Compatibility

Compatible Impedance Analyzers	E4991B, E4991A, 4291B, 4291A, E4990A (with 16085B)

Supported Device Dimensions

Supported DUT Length	1.6 mm to 5.6 mm
Supported DUT Width	0.8 mm to 5.0 mm
Supported DUT Height	≥ 0.6 mm

Supported Components

Option 16194A-010 Supported Case Sizes	1005 (Metric) / 0402 (Imperial)

TECHNOLOGY

Impedance Measurement

APPLICATIONS

High-temperature testing of SMD components

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