KEYSIGHT TECHNOLOGIES (AGILENT HP)

16047A

The Keysight 16047A is a high-precision test fixture designed for the impedance evaluation of axial and radial leaded components up to 13 MHz. Using a 4-terminal Kelvin contact configuration, it minimizes residual impedance and ensures reliable measurements across a wide range of frequencies and impedances. Its contact tips can be adapted or changed according to the device shape.

SPECIFICATIONS

General

Interfaces	4-Terminal Pair (BNC connectors directly connected to instrument UNKNOWN terminals)

Physical

Power Supply	Passive (no external power required)
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	124 mm × 31 mm × 62 mm mm
Weight	105 g kg

Electrical Specifications

Frequency Range	DC to 13 MHz
Maximum DC Bias Voltage	±42 V peak max. (AC + DC)
Residual Resistance (R_s)	≤ 15 mΩ (typical)
Residual Inductance (L_s)	≤ 10 nH (typical)
Stray Capacitance (C_o)	≤ 12 pF (typical)

Instrument Connections

Connector Type to Instrument	4-Terminal Pair (BNC)
Terminal Configuration	4-Terminal Kelvin connection
Cable Length	0 m (Directly connected to instrument)

DUT Compatibility

Supported Component Types	Leaded components (Axial and Radial)
Lead Diameter Range (Leaded Components)	0.3 mm to 2.0 mm
Lead Pitch Range (Axial)	5 mm to 20 mm
Contact Method	Kelvin contact

Calibration and Compensation

Open/Short Compensation Support	Supported

Physical and Environmental

Operating Temperature Range	0 to 55 °C
Storage Temperature Range	-55 to 85 °C
Operating Humidity Range (Non-Condensing)	≤ 95% RH @ 40 °C
Storage Humidity Range	≤ 95% RH @ 65 °C
Fixture Weight	105 g
Fixture Dimensions (W x H x D)	124 mm x 31 mm x 62 mm

Instrument Compatibility

Compatible LCR Meters	Keysight E4980A, E4980AL, E4981A, 4263B, 4268A, 4278A, 4279A, 4284A, 4285A, 4288A
Compatible Impedance Analyzers	Keysight E4990A, 4294A

Supported Components

Lead Pitch Range (Radial)	5 mm to 20 mm

TECHNOLOGY

Impedance Measurement / LCR Test Fixture

APPLICATIONS

Impedance characterization of axial and radial leaded electronic components

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.