KEYSIGHT TECHNOLOGIES (AGILENT HP)

16047C

The Keysight 16047C is a high-frequency test fixture designed for the impedance evaluation of axial and radial leaded components up to 40 MHz. Utilizing a 4-Terminal Pair configuration, it minimizes residual impedance and stray capacitance to provide highly accurate, stable, and repeatable measurements when paired with compatible LCR meters and impedance analyzers.

SPECIFICATIONS

General

Interfaces	4-Terminal Pair BNC (male)

Physical

Operating Temperature	0 °C to 55 °C °C
Dimensions (W×H×D)	124 mm × 31 mm × 62 mm mm
Weight	0.46 kg

Electrical Specifications

Frequency Range	DC to 40 MHz
Maximum Voltage	±42 V peak max. (AC+DC)
Residual Resistance (Rs)	≤ 15 mΩ
Residual Inductance (Ls)	≤ 12 nH
Stray Capacitance (Co)	≤ 1.5 pF

Instrument Connections

Connector Type to Instrument	4-Terminal Pair BNC (male)
Terminal Configuration	4-Terminal Pair
Guard Terminal Presence	Yes (via outer BNC conductor shielding)
Cable Length	0 m (Direct connection to instrument front panel)

DUT Compatibility

Supported Component Types	Axial and radial leaded components
Lead Diameter Range	0.1 mm to 2.0 mm

Calibration and Compensation

Calibration and Compensation Support	Open and Short compensation

Physical and Environmental

Operating Temperature Range	0 °C to 55 °C
Storage Temperature Range	-55 °C to 85 °C
Operating Humidity Range	≤ 95% RH (@ 40 °C, non-condensing)
Storage Humidity Range	≤ 95% RH (@ 40 °C, non-condensing)
Fixture Dimensions	124 mm (W) x 31 mm (H) x 62 mm (D)
Fixture Weight	460 g

Instrument Compatibility

Compatible LCR Meters	Keysight E4980A, E4980AL, E4981A, Agilent 4284A, 4285A, 4263B
Compatible Impedance Analyzers	Keysight E4990A, Agilent 4294A

Measurement Capabilities

Axial Lead Spacing Range	1 mm to 20 mm
Radial Lead Spacing	5 mm

TECHNOLOGY

4-Terminal Pair LCR Test Fixture

APPLICATIONS

Impedance and LCR measurement of axial and radial leaded electronic components

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