KEYSIGHT TECHNOLOGIES (AGILENT HP)

16034E

The Keysight 16034E is a high-precision SMD test fixture designed for stable and accurate impedance measurements of surface-mount components. Operating from DC up to 40 MHz, this 4-terminal pair fixture accommodates a wide range of SMD component sizes with its simple, adjustable slide mechanism, making it highly compatible with Keysight LCR meters and impedance analyzers.

SPECIFICATIONS

General

Interfaces	4-Terminal Pair (BNC)
Furnished Accessories	Shorting plate (16034-60011), Shorting plate (16034-60012), Shorting plate (16034-60013), Shorting plate (16034-60014), Operating Manual

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	128 mm × 60 mm × 71 mm mm
Weight	0.27 kg
Electrode Clamping Mechanism	Spring-loaded sliding contact

Electrical Specifications

Frequency Range	DC to 40 MHz
Maximum Voltage	±40 V peak max (AC+DC)
Residual Resistance (R_s)	< 20 mΩ
Residual Inductance (L_s)	< 20 nH
Stray Capacitance (C_o)	< 1.5 pF

Instrument Connections

Terminal Configuration	4-Terminal Pair
Connector Type to Instrument	BNC

DUT Compatibility

Compatible SMD Case Sizes (Metric)	1608 (metric) to 8080 (metric)
Compatible SMD Case Sizes (Imperial)	0603 (imperial) to 3131 (imperial)
Minimum Component Length	1.6 mm
Maximum Component Length	8 mm
Minimum Component Width	0.8 mm
Maximum Component Width	8 mm
Maximum Component Height	8 mm

Physical and Environmental

Operating Temperature Range	0 °C to 55 °C
Operating Humidity Range (Non-Condensing)	≤ 95% RH @ 40 °C

Instrument Compatibility

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

Environmental

Non-Operating Temperature Range	-55 °C to +85 °C
Non-Operating Humidity Range	≤ 95% RH (at wet-bulb temperature ≤ 40 °C, non-condensing)
Operating Altitude	0 to 2,000 m
Non-Operating Altitude	0 to 4,572 m

Measurement

Compensation Types	Open and Short Compensation

Compliance

Safety Compliance	IEC 61010-1 / EN 61010-1

TECHNOLOGY

SMD Test Fixture

APPLICATIONS

Impedance and LCR measurements of surface mount devices (SMD)

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