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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 16065C

The Keysight 16065C is a 4-terminal-pair external DC bias adapter for E4981A and E4980AL. OEM impedance-accessories catalog rates 100 Hz to 1 MHz, plus or minus 42 V peak (AC+DC) maximum bias, 100 uF blocking capacitor in series with Hc, 160 × 50 × 150 mm, 210 mm cable, 450 g, and 0 to 55 C. Applying up to 40 V class external DC bias to capacitors and other DUTs on E4980AL/E4981A while using 16034/16047/16048/16089 fixtures. Designed specifically for E4981A and E4980AL Instrument Type: External DC bias adapter Use Case: biased capacitor and DUT measurements Brand Lineage: Hewlett Packard Agilent Keysight Documentation Type: OEM datasheet and catalog specifications From Keysight Accessories Catalog for Impedance Measurements 16065C section. The 16065A 200 V fixture is a different product; 16065C is the 40 V adapter for E4980AL/E4981A.



MODEL

**Agilent / Keysight
16065C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16065C

LISTING

<https://aumictechlabs.com/products/16065c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 16065C is an external DC bias adapter that introduces controlled bias voltage to devices under test during impedance measurements with compatible Keysight impedance analyzers and LCR meters. It extends measurement capability by enabling component and material characterization across various DC bias conditions, delivering stable, regulated bias for applications where bias-dependent behavior is critical to measurement accuracy. Technical Specifications External DC Bias Voltage: ± 40 VDC Frequency Range: 50 Hz to 1 MHz Internal

Blocking Capacitor: 100 μ F (series-connected between Hcur terminal and DUT) Current Limiting Resistor: 2 k Ω (series with DUT on DC bias input) External Bias Source Requirement: 20 mA at 40 V Operating Temperature: 0 to 55 $^{\circ}$ C Storage Temperature: -40 to +70 $^{\circ}$ C Operating Humidity: Up to 95% relative humidity at 40 $^{\circ}$ C (non-condensing) Storage Humidity: Up to 95% relative humidity at 65 $^{\circ}$ C (non-condensing)Key Features Four-terminal-pair measurement interface with dedicated test leads for connection to UNKNOWN terminals BNC connector for external DC voltage source input Direct 4 terminal-pair test fixture attachment capability Series blocking capacitor prevents DC bias from flowing back into the measurement instrument Series current limiting resistor protects against excessive bias currentTypical Applications The 16065C enables bias-dependent impedance characterization of semiconductors, varactors, capacitors with voltage coefficients, and other components exhibiting bias-sensitive electrical behavior across the 50 Hz to 1 MHz measurement band.Compatibility & Integration Measurement Instruments: Keysight 4263A/B, 4268A, 4278A LCR meters Compatible Test Fixtures: Keysight 16034E/G/H, 16044A, 16047A/C/D/E, 16048A/B/D/E, 16089A/B/C/D/E Important Limitation: The 16065C cannot be used with applications requiring the instrument's internal bias source. OPEN and SHORT correction procedures per instrument manual are mandatory to minimize measurement error from adapter stray capacitance, residual inductance, and resistance.

16065C Characteristics / Specifications

PARAMETER	VALUE
Model	16065C
Instrument Type	External DC bias adapter
Frequency Range	100 Hz to 1 MHz
Maximum Dc Bias	plus or minus 42 V peak (AC plus DC)
Blocking Capacitor	100 uF in series with Hc
Terminal Connector	4-terminal pair BNC
Bias Input Connector	BNC female
Dimensions	160 mmWx 50 mmHx 150 mmDCable Length: 210 mm
Weight	450 g
Operating Temperature	0 C to 55 C
Applicable Instruments	E4981A and E4980AL
Applicable Fixtures	16034E/G/H, 16047A/E, 16048A/D, 16089A/B/C
Compensation	open and short recommended
Manual Part	16065-90020
Related Higher Voltage Fixture	16065A 200 Vdc
Catalog Bias Heading	40 Vdc external voltage bias adapter
Form Factor	inline 4TP adapter
Use Case	biased capacitor and DUT measurements
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

16065C Specifications

PARAMETER	VALUE
Applications	Applying up to 40 V class external DC bias to capacitors and other DUTs on E4980AL/E4981A while using 16034/16047/16048/16089 fixtures.
External BNC female bias input	100 uF blocking capacitor on Hc
Open and short compensation recommended	Designed specifically for E4981A and E4980AL
Technical Specifications	Model: 16065C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 55 C
Operating Temperature	0 C to 55 C
Applicable Instruments	E4981A and E4980AL
Applicable Fixtures	16034E/G/H, 16047A/E, 16048A/D, 16089A/B/C
Compensation	open and short recommended
Manual Part	16065-90020
Related Higher Voltage Fixture	16065A 200 Vdc
Catalog Bias Heading	40 Vdc external voltage bias adapter
Form Factor	inline 4TP adapter
Use Case	biased capacitor and DUT measurements
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes From Keysight Accessories Catalog for Impedance Measurements 16065C section. The 16065A 200 V fixture isadifferent product; 16065C is the 40 V adapter for E4980AL/E4981A.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	16065C
Instrument Type	External DC bias adapter
Frequency Range	100 Hz to 1 MHz
Maximum Dc Bias	plus or minus 42 V peak (AC plus DC)
Blocking Capacitor	100 uF in series with Hc
Terminal Connector	4-terminal pair BNC
Bias Input Connector	BNC female
Dimensions	160 mm W x 50 mm H x 150 mm D
Cable Length	210 mm
Weight	450 g
Operating Temperature	0 C to 55 C
Applicable Instruments	E4981A and E4980AL
Applicable Fixtures	16034E/G/H, 16047A/E, 16048A/D, 16089A/B/C
Compensation	open and short recommended
Manual Part	16065-90020
Related Higher Voltage Fixture	16065A 200 Vdc
Catalog Bias Heading	40 Vdc external voltage bias adapter
Form Factor	inline 4TP adapter
Use Case	biased capacitor and DUT measurements
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Specifications	
PARAMETER	VALUE
Model	16065C

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Instrument Type	External DC bias adapter
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Applicable Instruments	E4981A and E4980AL
Applicable Fixtures	16034E/G/H, 16047A/E, 16048A/D, 16089A/B/C
Compensation	open and short recommended
Manual Part	16065-90020
Related Higher Voltage Fixture	16065A 200 Vdc
Catalog Bias Heading	40 Vdc external voltage bias adapter
Form Factor	inline 4TP adapter
Use Case	biased capacitor and DUT measurements
Manufacturer	HP Agilent Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

Notes

From Keysight Accessories Catalog for Impedance Measurements 16065C section. The 16065A 200 V fixture is a different product; 16065C is the 40 V adapter for E4980AL/E4981A.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.