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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 16380C Capacitance Standard Set â€" 0.01uF to 10uF

HP / Agilent 16380C Capacitance Standard Set 0.01 uF to 10 uF The HP/Agilent/Keysight 16380C is a four-terminal-pair capacitance standard set for performance tests of LCR meters and impedance analyzers in the mid-value capacitor range. The set includes three precision capacitors: 0.01 uF (16385A), 0.1 uF (16386A), and 1 uF (16387A), with optional 10 uF (16388A / Option 001). Terminals are 4TP BNC for direct instrument connection. The HP/Agilent/Keysight 16380C is a four-terminal-pair capacitance standard set for performance tests of LCR meters and impedance analyzers in the mid-value capacitor range. The set includes three precision capacitors: 0.01 uF (16385A), 0.1 uF (16386A), and 1 uF (16387A), with optional 10 uF (16388A / Option 001). Terminals are 4TP BNC for direct instrument connection.



MODEL

**HP / Agilent
16380C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16380C

LISTING

<https://aumictechlabs.com/products/16380c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 16380C Capacitance Standard Set is a precision calibration instrument for verifying capacitance measurement accuracy in LCR meters and impedance analyzers. This three-capacitor set - with optional fourth element - spans 0.01 μ F to 10 μ F and delivers exceptional long-term stability across standard laboratory environments. Technical Specifications Capacitance Range: 0.01 μ F to 10 μ F Standard Capacitors Included: 0.01 μ F (Model 16385A) 0.1 μ F

(Model 16386A) 1 μ F (Model 16387A) Optional Capacitor: 10 μ F (Model 16388A) Accuracy (Nominal): 0.01 μ F, 0.1 μ F, 1 μ F: $\pm 0.10\%$ 10 μ F (optional): $\pm 0.05\%$ Calibration accuracy: $\pm 0.01\%$ Stability: ± 50 to ± 300 ppm/year depending on capacitor value Dissipation Factor: ≤ 0.0004 to 0.0007 depending on capacitor value; < 50 ppm/year drift Temperature Coefficient: ± 10 ppm/ $^{\circ}$ C Operating Temperature Range: 0° C to 50° C Connector: 4-terminal pair, BNC Dimensions: 142(W) $\times$ 88(H) $\times$ 112(D) mm Weight (with case and 3 capacitors): Approximately 7.0 kg

Key Features High capacitance stability virtually unaffected by environmental temperature fluctuations 4-terminal pair configuration for direct instrument connection Adaptable to two-, three-, and five-terminal configurations Low dissipation factor across all standard capacitor values

Typical Applications Performance verification and certification of 4-terminal pair LCR meters and impedance analyzers over the 0.01 μ F to 10 μ F measurement range. Suitable for both laboratory and industrial calibration workflows.

Compatibility & Integration Compatible with: 4194A, 4263A/B, 4268A, 4278A, 4284A, 4288A, 4294A, E4980A, E4980AL, E4981A, E4990A

Calibration: Recommended annually; more frequent intervals advised for extreme temperature environments.

Features & description

From manufacturer datasheet

Features

- Three standard capacitors plus optional 10 uF

Applications

- Performance verification of 4TP LCR meters and impedance analyzers

16380C Characteristics / Specifications

PARAMETER	VALUE
Model	16380C
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Capacitance Standard Set
Alias	HP 16380C; Agilent 16380C; Keysight 16380C
Capacitance values standard	0.01 uF, 0.1 uF, 1 uF
Module 0.01 uF	16385A
Module 0.1 uF	16386A
Module 1 uF	16387A
Terminal connector	4-terminal pair BNC
Capacitor dimensions approx	142 × 88 × 112 mm
Weight with case and 3 capacitors	about 7.0 kg
Dissipation factor class	less than 0.0007
Stability class	less than 50 ppm/year
Calibration frequency class	1 kHz typical
Maximum voltage class comparative	40 V
Applicable instruments	4194A, 4263A/B, 4268A, 4278A, 4284A, 4288A, 4294A, E4980A
Also listed applicable	E4980AL, E4981A, E4990A, 4285A
Connection	direct 4TP BNC
Set purpose	LCR / impedance analyzer performance tests
Range covered standard	0.01 uF to 1 uF
Range covered with option	to 10 uF Notes Specs from Keysight 16380C product page and comparative standard tables. Confirm whether Option 001 / 16388A 10 uF is included and review calibration certificates.

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.

performance tests of LCR meters and impedance analyzers in the mid-value capacitor range. The set includes three precision capacitors: 0.01 uF (16385A), 0.1 uF (16386A), and 1 uF (16387A), with optional 10 uF (16388A / Option 001). Terminals are 4TP BNC for direct instrument connection.

Applications

- Performance verification of 4TP LCR meters and impedance analyzers
- Capacitance accuracy checks from 0.01 uF to 1 uF standard; to 10 uF with option
- Metrology and calibration laboratory mid-value capacitance references
- Use with 4278A, 4284A, 4288A, 4294A, E4980A class instruments

Key Features

- Three standard capacitors plus optional 10 uF
- Modules 16385A / 16386A / 16387A; optional 16388A
- 4-terminal-pair BNC connectors
- Dissipation factor less than 0.0007 class comparative data
- Stability less than 50 ppm/year class comparative data
- Case included; about 7.0 kg with three capacitors

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	16380C
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Capacitance Standard Set

Specifications

PARAMETER	VALUE
Alias	HP 16380C; Agilent 16380C; Keysight 16380C
Capacitance values standard	0.01 uF, 0.1 uF, 1 uF
Module 0.01 uF	16385A

Module 0.1 uF: 16386A

Module 1 uF: 16387A

Optional 10 uF module: 16388A

Option code for 10 uF: 16380C-001

Specifications

PARAMETER	VALUE
Terminal connector	4-terminal pair BNC

PARAMETER	VALUE
Capacitor dimensions approx	142 x 88 x 112 mm
Weight with case and 3 capacitors	about 7.0 kg

Specifications

PARAMETER	VALUE
Dissipation factor class	less than 0.0007
Stability class	less than 50 ppm/year
Calibration frequency class	1 kHz typical

Specifications

PARAMETER	VALUE
Maximum voltage class comparative	40 V
Applicable instruments	4194A, 4263A/B, 4268A, 4278A, 4284A, 4288A, 4294A, E4980A
Also listed applicable	E4980AL, E4981A, E4990A, 4285A

Specifications

PARAMETER	VALUE
Connection	direct 4TP BNC
Set purpose	LCR / impedance analyzer performance tests
Range covered standard	0.01 uF to 1 uF

Range covered with option: to 10 uF

Notes

Specs from Keysight 16380C product page and comparative standard tables. Confirm whether Option 001 / 16388A 10 uF is included and review calibration certificates.

Ordering Information

OPTION	DESCRIPTION
Option 001	/ 16388A 10 uF is included and review calibration certificates.

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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<https://aumictechlabs.com>

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.