

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 5, 2026

KEYSIGHT

Keysight (Agilent) U2723A USB Modular Source / Measure Unit

Keysight (Agilent) U2723A USB Modular Source / Measure Unit The Keysight U2723A is a 3-channel USB modular source/measure unit (SMU) with four-quadrant operation to ± 20 V / ± 120 mA per channel. 100 pA current measurement sensitivity with 16-bit resolution and 0.1% basic accuracy class. Embedded test-script memory (two lists per channel, up to 200 commands/results each) and faster rise/fall times than U2722A. Hi-Speed USB 2.0; standalone or U2781A chassis modular; SCPI and IVI-COM; BenchVue / KMM support. The Keysight U2723A is a 3-channel USB modular source/measure unit (SMU) with four-quadrant operation to ± 20 V / ± 120 mA per channel. 100 pA current measurement sensitivity with 16-bit resolution and 0.1% basic accuracy class. Embedded test-script memory (two lists per channel, up to 200 commands/results each) and faster rise/fall times than U2722A. Hi-Speed USB 2.0; standalone or U2781A chassis modular; SCPI and IVI-COM; BenchVue / KMM support. Leakage measurement; solar-cell I-V; diode/transistor curve tracing; multi-channel SMU ATE; R&D and manufacturing parametric tests.

No photo

MODEL

Keysight U2723A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

U2723A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- 3 channels; four-quadrant $\pm 20\text{ V}$ / $\pm 120\text{ mA}$ each
- 100 pA sensitivity; 16-bit resolution
- 0.1% basic accuracy class
- Embedded test scripts (U2723A); IV curve support
- Faster current-range rise/fall than U2722A (e.g. $\pm 1\text{ }\mu\text{A}$: 15 ms vs 170 ms)
- USB 2.0; SCPI; IVI-COM; dual-play standalone/modular

U2723A Characteristics / Specifications

PARAMETER	VALUE
Model	U2723A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	USB Modular Source Measure Unit
Family	U2722A / U2723A
Alias	U2723A; Agilent U2723A Source / Measure
Channels	3
Voltage ranges	$\pm 2\text{ V}$, $\pm 20\text{ V}$
Current ranges	$\pm 1\text{ }\mu\text{A}$, $\pm 10\text{ }\mu\text{A}$, $\pm 100\text{ }\mu\text{A}$, $\pm 1\text{ mA}$, $\pm 10\text{ mA}$, $\pm 120\text{ mA}$
Noise 10 Hz	20 MHz: 100 mV p-p typical (floating, resistive)
Voltage load regulation	0.01% + 100 μV
Current load regulation	0.04% + 100 μA
Max sense lead resistance	1 M Ω ; remote sense $\Delta V \leq 3\text{ V}$
Module size (with bumpers)	approx. 120 × 183 × 66 mm Operational Notes U2722A is the sibling without embedded scripts and with slower low-current settling. Prefer Keysight U2722A/U2723A datasheet 5990-7416.
Faster current-range rise/fall than U2722A (e.g. $\pm 1\text{ }\mu\text{A}$)	15 ms vs 170 ms)

U2723A Specifications

PARAMETER	VALUE
Key Features	- 3 channels; four-quadrant $\pm 20\text{ V}$ / $\pm 120\text{ mA}$ each
Technical Specifications	Model: U2723A
Source / Measure	Channels: 3
Other	Noise 10 Hz–20 MHz: 100 mV p-p typical (floating, resistive)
Operational Notes	U2722A is the sibling without embedded scripts and with slower low-current settling. Prefer Keysight U2722A/U2723A datasheet 5990-7416.

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

Specifications

PARAMETER	VALUE
Model	U2723A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	USB Modular Source Measure Unit
Family	U2722A / U2723A
Alias	U2723A; Agilent U2723A

Source / Measure

Specifications

PARAMETER	VALUE
Channels	3
Voltage ranges	±2 V, ±20 V
Current ranges	±1 µA, ±10 µA, ±100 µA, ±1 mA, ±10 mA, ±120 mA

Voltage programming (±20 V): 0.05% + 10 mV; resolution 1 mV

Voltage programming (±2 V): 0.075% + 1.5 mV; resolution 0.1 mV

Current programming/readback (±1 µA): 0.085% + 0.85 nA; resolution 100 pA

Current (±120 mA): 0.1% + 100 µA; resolution 20 µA

Dynamic (U2723A rise/fall, resistive, default BW)

±1 µA: 15.0 ms; ±10 µA: 5.0 ms; ±100 µA–±120 mA: 1.0 ms

Other

Noise 10 Hz–20 MHz: 100 mV p-p typical (floating, resistive)

Specifications

PARAMETER	VALUE
Voltage load regulation	0.01% + 100 µV
Current load regulation	0.04% + 100 µA
Max sense lead resistance	1 MΩ; remote sense ΔV ≤ 3 V
Module size (with bumpers)	approx. 120 × 183 × 66 mm

Operational Notes

U2722A is the sibling without embedded scripts and with slower low-current settling. Prefer Keysight U2722A/U2723A datasheet 5990-7416.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

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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.