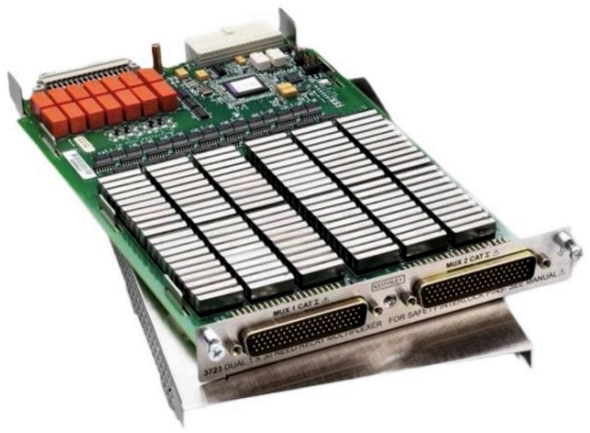
**Aumictech**
Test & measurement · bought, sold, repaired, calibrated

**Data Sheet**
August 13, 2026

KEITHLEY

# Keithley 3723

The Keithley 3723 isaSeries 3700A plug-in multiplexer card with two independent 1×30 two-pole banks of dry reed relays. Banks combine to a 1×60 two-pole or 1×120 single-pole multiplexer. Actuation is under 0.5 ms for high-throughput scanning with 2600B SourceMeter I-V systems. Signal path is 200 V, 1 A switched (1.25 A carry), 15 W. Two 78-pin male D-shells; optional 3723-ST screw terminals. High-speed scanned I-V with Series 2600B SMUs 3706A production multiplexed DCV and ohms One-wire common-side measurements to 120 channels Keithley 3723 Dual 1×30 High Speed Reed Multiplexer Card The Keithley 3723 isaSeries 3700A plug-in multiplexer card with two independent 1×30 two-pole banks of dry reed relays. Banks combine to a 1×60 two-pole or 1×120 single-pole multiplexer. Actuation is under 0.5 ms for high-throughput scanning with 2600B SourceMeter I-V systems. Signal path is 200 V, 1 A switched (1.25 A carry), 15 W. Two 78-pin male D-shells; optional 3723-ST screw terminals. High-speed scanned I-V with Series 2600B SMUs 3706A production multiplexed DCV and ohms



| | |
|---|---|
| MODEL<br>Keithley 3723 | CALIBRATION<br>Available on request |
| CONDITION<br>Used | STATUS<br>In stock |
| RFQ / SKU<br>3723 | LISTING<br>https://aumictechlabs.com/products/3723-2/ |

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Keithley 3723 is a dual-bank, high-speed multiplexer card for the Series 3700A mainframe, delivering configurable switching across 30 to 120 channels. Two independent 1×30 two-pole multiplexer banks interconnect via mainframe relays to form 1×60 two-pole, 1×30 four-pole, or

1×120 single-pole configurations. High-speed reed relays with actuation times below 0.5 ms enable scanning rates exceeding 800 channels/s, making the 3723 ideal for multi-channel I-V characterization, parametric testing, and complex data acquisition. The card maintains contact potential of ±6 µV (differential) and ±12 µV (single-ended) while supporting 1-, 2-, and 4-wire measurement topologies. Rated for switching up to 200 V DC/RMS at 1 A with 1.25 A carry capacity, it delivers 20 MHz bandwidth and 10^10 Ω isolation across all configurations. Technical Specifications Multiplexer Banks: Two independent 1×30 two-pole banks; interconnectable via relays to 1×60 two-pole or 1×120 single-pole Relay Type: High-speed reed relays, 10^9 operations at no load, 1×10^7 operations at 100 V/10 mA Electrical: 20 MHz bandwidth; 200 V DC/RMS switching; 1 A switch, 1.25 A carry; 15 W max power; 300 V DC/RMS common mode; 8×10^7 volt-hertz limit Performance: >800 channels/s scan rate; <1.5 Ω channel resistance (1×30 2-pole); <2.0 Ω (1×60 1-pole with 3723-ST); ±6 µV differential contact potential; ±12 µV single-ended; <250 pA offset current Isolation: 10^10 Ω differential (260 pF); 10^10 Ω bank-bank (75 pF); 10^10 Ω common mode (280 pF); crosstalk <-55 dB @ 300 kHz, <-50 dB @ 1 MHz, 120 channels Long relay life with predictable contact degradation Low thermal offset for precision low-level switching Support for differential and single-ended measurements Typical Applications Multi-channel I-V characterization with Series 2600B SourceMeter instruments High-throughput parametric device testing Automated production test and burn-in Data acquisition on large channel-count test systems Compatibility & Integration The 3723 integrates into the Keithley Series 3700A mainframe via the analog backplane, enabling mixed-module configurations and synchronized scanning across multiple card types.

## 3723 Characteristics / Specifications

| PARAMETER | VALUE |
|---|---|
| **Model** | 3723 |
| **Manufacturer** | Keithley Instruments (Tektronix) |
| **Instrument Type** | High speed reed multiplexer card |
| **Alias** | 3723; Keithley 3723 Dual 1×30 |
| **Host Mainframe** | Series 3700A (3706A class) |
| **Channel Count Two Pole** | 60 differential (dual 1×30) |
| **Channel Count Four Pole** | 30 |
| **Channel Count Single Pole** | 120 (dual 1×60 one-wire) |
| **Contact Configuration** | 2 pole FormA Relay Type: dry reed |
| **Actuation Time** | less than 0.5 ms |
| **Max Signal Voltage** | 200 V DC or RMS |
| **Max Switched Current** | 1 A |
| **Max Carry Current** | 1.25 A |
| **Max Power** | 15 W |
| **Common Mode Voltage** | 300 V DC or RMS any terminal to chassis |
| **Volt Hertz Limit** | 8e7 |
| **Contact Life No Load** | greater than 1e9 operations |
| **Contact Life Loaded** | 1e7 operations at 100 V, 10 mA |
| **Channel Resistance Dual** | less than 1.5 ohm end of life |
| **Channel Resistance Combined** | less than 2.0 ohm (1×60) |
| **Contact Potential Differential** | less than plus/minus 6 uV |
| **Offset Current** | less than plus/minus 250 pA |
| **Isolation Differential** | 1e10 ohm, 260 pF class (dual 1×30) |
| **Crosstalk At 300 kHz** | less than minus 55 dB |
| **Bandwidth Dual** | 20 MHz |

| PARAMETER | VALUE |
| --- | --- |
| **Connector Type** | two 78 pin male D-shells |
| **Relay Drive Current** | 10 mA |
| **Operating Temperature** | 0 to 50 C |
| **Weight** | 2.2 lb class |
| **Screw Terminal Option** | 3723-ST; 22 AWG typical Notes Specs from Keithley 3723 Dual 1×30 High Speed Multiplexer specification (SPEC-3723 / 3700A switch-card datasheet). Confirm 3723-ST versus D-sub cabling and 1/2/4-wire bank jumpers on the installed card. |
| **Bandwidth** | Dual: 20 MHz |

## General Specifications & Supplementary Characteristics

| PARAMETER | VALUE |
| --- | --- |
| **Operating temperature** | 0 to 50 C |
| **Operating Temperature** | 0 to 50 C |
| **Weight** | 2.2 lb class |
| **Screw Terminal Option** | 3723-ST; 22 AWG typical Notes Specs from Keithley 3723 Dual 1×30 High Speed Multiplexer specification (SPEC-3723 / 3700A switch-card datasheet). Confirm 3723-ST versus D-sub cabling and 1/2/4-wire bank jumpers on the installed card. |

# 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** | 3723 |
| **Manufacturer** | Keithley Instruments (Tektronix) |
| **Instrument Type** | High speed reed multiplexer card |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Alias** | 3723; Keithley 3723 Dual 1x30 |
| **Host Mainframe** | Series 3700A (3706A class) |
| **Channel Count Two Pole** | 60 differential (dual 1x30) |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Channel Count Four Pole** | 30 |
| **Channel Count Single Pole** | 120 (dual 1x60 one-wire) |
| **Contact Configuration** | 2 pole FormA Relay Type: dry reed |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Actuation Time** | less than 0.5 ms |
| **Max Signal Voltage** | 200 V DC or RMS |
| **Max Switched Current** | 1 A |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Max Carry Current** | 1.25 A |
| **Max Power** | 15 W |
| **Common Mode Voltage** | 300 V DC or RMS any terminal to chassis |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Volt Hertz Limit** | 8e7 |
| **Contact Life No Load** | greater than 1e9 operations |
| **Contact Life Loaded** | 1e7 operations at 100 V, 10 mA |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Channel Resistance Dual** | less than 1.5 ohm end of life |
| **Channel Resistance Combined** | less than 2.0 ohm (1x60) |
| **Contact Potential Differential** | less than plus/minus 6 uV |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Offset Current** | less than plus/minus 250 pA |
| **Isolation Differential** | 1e10 ohm, 260 pF class (dual 1x30) |
| **Crosstalk At 300 kHz** | less than minus 55 dB |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Bandwidth Dual** | 20 MHz |
| **Connector Type** | two 78 pin male D-shells |
| **Relay Drive Current** | 10 mA |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Operating Temperature** | 0 to 50 C |
| **Weight** | 2.2 lb class |
| **Screw Terminal Option** | 3723-ST; 22 AWG typical |

Notes

Specs from Keithley 3723 Dual 1x30 High Speed Multiplexer specification (SPEC-3723 / 3700A switch-card datasheet). Confirm 3723-ST versus D-sub cabling and 1/2/4-wire bank jumpers on the installed card.

## 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**
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026