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Data Sheet

August 13, 2026

KEITHLEY

Keithley 7058 Low Current Scanner Card

Keithley 7058 10 Channel Low Current Scanner Card The Keithley 7058 is a 10-channel single-pole low-current scanner plug-in for the Model 705 (and 706-family) scanner mainframe. Offset current is specified less than 1 pA (typical far below that) with guarding so isolation between inputs stays high. Break-before-make switching of signal HI; signal LO is common. When a channel is off, an internal jumper returns HI to LO to keep the current path; jumpers can be removed for high-impedance voltage measurements. AC or DC signals up to 28 V or 100 mA are scanned on triaxial connectors through the 705 rear panel. The Keithley 7058 is a 10-channel single-pole low-current scanner plug-in for the Model 705 (and 706-family) scanner mainframe. Offset current is specified less than 1 pA (typical far below that) with guarding so isolation between inputs stays high. Break-before-make switching of signal HI; signal LO is common. When a channel is off, an internal jumper returns HI to LO to keep the current path; jumpers can be removed for high-impedance voltage measurements. AC or DC signals up to 28 V or 100 mA are scanned on triaxial connectors through the 705 rear panel. Picoamp scanning into an electrometer or picoammeter; insulation and semiconductor leakage multiplex; guarded low-current paths on a 705/706 mainframe; voltage measurements after removing the HI-to-LO jumpers.



MODEL

Keithley 7058

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7058

LISTING

<https://aumictechlabs.com/products/7058-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 7058 Low Current Scanner Card is a 10-channel switching module engineered for precision measurement of sensitive signal levels. It delivers sub-picoampere offset current performance ($< 1 \text{ pA}$, typically $10^{15} \Omega$) to preserve signal integrity in low-level current applications. The card features guarded switching architecture, triaxial input connectors for direct electrometer interfacing, and removable jumpers for flexible voltage-switch configuration. Designed as a plug-in card for Keithley 7001 and 7002 Switch Mainframes, it handles signals up to 200 V, 100 mA (resistive load) with contact life exceeding 10,000,000 cold-switching closures. Technical Specifications Channels: 10 per card Maximum Signal Level: 200 V, 100 mA (resistive load only) Offset Current: $< 1 \text{ pA}$ ($< 10^{-12} \text{ A}$); typically $< 10^{-13} \text{ A}$ Contact Potential: $10^{15} \Omega$, $10^{10} \Omega$, $< 50 \text{ pF}$ Common Mode Voltage: $< 100 \text{ V}$ peak Actuation Time: $< 15 \text{ ms}$ (exclusive of mainframe) Contact Resistance: 10,000,000 closures (cold switching); $> 1,000,000$ closures (maximum signal levels) Key Features Sub-picoampere offset current eliminates signal corruption in ultra-low-level measurements Guarded switching maintains isolation exceeding $10^{15} \Omega$ between channels Triaxial input connectors enable direct connection to Keithley electrometers Removable jumpers permit reconfiguration of channels as voltage switches Single-pole, break-before-make relay architecture for signal HI; common Signal LO across all 10 channels Fast actuation at $< 15 \text{ ms}$ supports high-speed test sequences Typical Applications Picoammeter and electrometer multiplexing Low-leakage current measurement and switching High-impedance circuit testing Multi-point capacitive and resistive characterization Compatibility & Integration The 7058 integrates into Keithley 7001 and 7002 Switch Mainframes as a standard plug-in card, enabling rapid expansion of switching capacity in existing test systems.

Features & description

From manufacturer datasheet

Features

- Triaxial I/O through the 705 rear panel
- Guarded construction for high isolation
- Internal jumpers maintain current paths on deselected channels
- Field-installable 705 plug-in (two cards per 705 mainframe)
- Companion 7059 low-voltage and 7056 general-purpose cards in the same slot family

7058 Characteristics / Specifications

PARAMETER	VALUE
Model	7058
Manufacturer	Keithley Instruments
Instrument Type	10 channel low current scanner card
Alias	7058; Keithley 7058
Host Mainframe	Model 705 scanner (706 compatible family)
Channel Count	10
Poles	1 (signal HI switched; LO common)
Switching	break before make
Offset Current	less than 1 pA (less than 1 pA specified; typical much lower)
Max Signal Voltage	28 V
Max Signal Current	100 mA (non inductive)
Connector Type	triaxial
Relay Drive Current	24 mA per relay typical
Contact Resistance	less than 1 ohm to rated life
Contact Potential	less than 200 uV
Actuation Time	less than 15 ms exclusive of mainframe
Channel Isolation	greater than 1e12 ohm, less than 0.1 pF with internal jumper removed
Input Isolation	greater than 1e9 ohm, less than 50 pF
Common Mode Voltage	less than 30 V peak class (28 V card rating)
Off State Path	signal HI jumpered to LO when channel off
Operating Temperature	0 C to 50 C, up to 35 C at 70 percent RH
Storage Temperature	minus 25 C to 65 C
Net Weight	0.54 kg (19 oz)
Card Height	32 mm
Card Width	114 mm

PARAMETER	VALUE
Related Low Voltage	7059
Related General Purpose	7056
Related Thermocouple	7057
Related 71	7158 BNC low current card for 715/716/7001 class
Mainframe Rate	100 channels per second class (705), programmable to 1 channel per 999.999 s
Install Path	rear panel field plug in of Model 705

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 25 C to 65 C
Operating temperature	0 C to 50 C, up to 35 C at 70 percent RH
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Card Height	32 mm
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Related Low Voltage	7059
Related General Purpose	7056
Related Thermocouple	7057
Related 71	7158 BNC low current card for 715/716/7001 class
Mainframe Rate	100 channels per second class (705), programmable to 1 channel per 999.999 s
Install Path	rear panel field plug in of Model 705 Notes Specs from Keithley Model 705 Scanner user manual 7058 description and Model 7058 Low Current Scanner Plug-In Card instruction manual (7058-901-01B) specification block. Confirm 705 versus 706 mainframe and whether HI-to-LO jumpers are installed for current versus voltage use.

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	
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Notes

Specs from Keithley Model 705 Scanner user manual 7058 description and Model 7058 Low Current Scanner Plug-In Card instruction manual (7058-901-01B) specification block. Confirm 705 versus 706 mainframe and whether HI-to-LO jumpers are installed for current versus voltage use.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.