

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

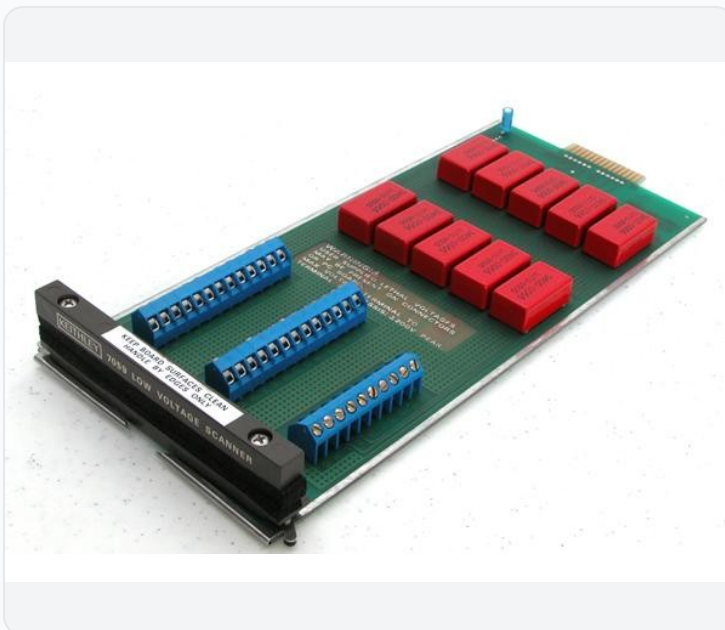
Data Sheet

August 13, 2026

KEITHLEY

Keithley 7059 10-Channel Low Voltage Scanner Card

Keithley 7059 10 Channel Low Voltage Scanner Card The Keithley 7059 is a 10-channel low-voltage scanner plug-in for the Model 705 (and 706) scanner mainframe. Two-pole break-before-make switching in less than 5 ms. Thermal error voltage less than 1 uV with respect to copper. Isolation 10^{12} ohm class between inputs. Expected relay life $1e8$ closures below 10 V or 10 mA; peak signals to 200 V or 100 mA may be scanned. Barrier strips. Intended for low-level transducer and thermocouple millivolt switching. The Keithley 7059 is a 10-channel low-voltage scanner plug-in for the Model 705 (and 706) scanner mainframe. Two-pole break-before-make switching in less than 5 ms. Thermal error voltage less than 1 uV with respect to copper. Isolation 10^{12} ohm class between inputs. Expected relay life $1e8$ closures below 10 V or 10 mA; peak signals to 200 V or 100 mA may be scanned. Barrier strips. Intended for low-level transducer and thermocouple millivolt switching. Low-level thermocouple and transducer switching



MODEL Keithley 7059	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 7059	LISTING https://aumictechlabs.com/products/7059-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7059 is a 10-channel low-voltage scanner card engineered for plug-in integration into Keithley Model 705 and Model 706 mainframes. It delivers high-density switching of low-level

signals with minimal thermal voltage error, making it ideal for thermocouple and low-level transducer measurements in automated test systems. The card expands channel capacity cost-effectively while maintaining signal integrity through exceptional isolation and low contact potential.

Technical Specifications

Channel Configuration 10 channels per card Z-pole Form A contact arrangement with common guard connection

Switches any one of ten signals to a single output or one signal to any of ten outputs

Signal Handling Maximum signal level: 200 V peak, 100 mA, 2 VA peak (resistive load) Recommended operation: less than 10 V or 10 mA for extended relay life Relay drive current: typically less than 1 μ A per relay

Contact Performance Contact resistance: less than 0.2 Ω to rated life; typical less than 0.5 Ω per contact Contact potential (thermal offset): less than 1 μ V input to output with copper leads; typical less than 200 nV within 1 minute of actuation Contact life: 10^8 closures (cold switching); 10^6 closures at maximum signal levels (200 V/100 mA)

Isolation & Timing Channel isolation: greater than 10^{12} Ω ; less than 10 pF capacitance Input isolation - differential: greater than 10^9 Ω , less than 40 pF Input isolation - common mode: greater than 10^9 Ω , less than 150 pF Common mode voltage: less than 200 V peak Actuation time: less than 2 milliseconds Warm-up time: 1 hour for thermal stability

Environmental & Physical Operating temperature: 0°C to 50°C (up to 35°C at 70% RH) Storage temperature: -25°C to 65°C Dimensions: 32 mm H $\times$ 114 mm W $\times$ 272 mm L Weight: 0.35 kg Connector type: screw terminals, accommodating wire up to 18 AWG

Key Features Extremely low thermal voltage error - critical for precision low-level measurements High contact isolation exceeding 10^{12} Ω minimizes crosstalk Field-removable design for easy installation and replacement Screw terminal connectivity supports quick signal routing

Typical Applications Thermocouple and resistance temperature detector (RTD) scanning; multi-channel low-level transducer multiplexing; automated data acquisition systems requiring high channel density with minimal signal corruption.

Compatibility & Integration Designed exclusively for Keithley Model 705 and Model 706 scanner mainframes. Mounts via rear panel slot; no external cabling required beyond signal connections.

7059 Characteristics / Specifications

PARAMETER	VALUE
Model	7059
Manufacturer	Keithley Instruments
Instrument Type	10 channel low voltage scanner card
Alias	7059; Keithley 7059
Host Mainframe	Model 705 scanner (706 compatible family)
Channel Count	10
Poles	2
Switching	break before make
Actuation Time	less than 5 ms
Thermal EMF	less than 1 uV with respect to copper
Isolation	1e12 ohm class between inputs
Relay Life Low Level	1e8 closures at less than 10 V or less than 10 mA
Max Peak Voltage	200 V
Max Peak Current	100 mA
Connector	barrier strips
Install Path	rear panel plug-in of Model 705
Related General Purpose	7056
Related Low Current	7058
Related Thermocouple	7057
Related High Voltage	7154 (715/716, 1100 V peak)
Signal Class	low level transducer and thermocouple
Form	single-slot 705 card
Contacts	2 FormAper channel class
Quick Disconnect	7055 accessory family Notes

PARAMETER	VALUE
Specs from Keithley Model 705 Scanner user manual (70	10 channels, less than 1 uV vs copper, less than 5 ms, 1e8 life below 10 V/10 mA, 200 V or 100 mA peak). Confirm 705 versus 706 mainframe.

7059 Specifications

PARAMETER	VALUE
Keithley 7059 10 Channel Low Voltage Scanner Card	Overview
Applications	Low-level thermocouple and transducer switching
Nanovolt/microvolt scanned DCV	705/706 temperature and strain multiplex
Key Features	Less than 1 uV thermal EMF versus copper
Technical Specifications	Model: 7059

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	7059
Manufacturer	Keithley Instruments
Instrument Type	10 channel low voltage scanner card
Specifications	
PARAMETER	VALUE
Alias	7059; Keithley 7059
Host Mainframe	Model 705 scanner (706 compatible family)
Channel Count	10
Specifications	
PARAMETER	VALUE
Poles	2
Switching	break before make
Actuation Time	less than 5 ms
Specifications	
PARAMETER	VALUE
Thermal EMF	less than 1 uV with respect to copper
Isolation	1e12 ohm class between inputs
Relay Life Low Level	1e8 closures at less than 10 V or less than 10 mA
Specifications	
PARAMETER	VALUE
Max Peak Voltage	200 V
Max Peak Current	100 mA
Connector	barrier strips

Specifications

PARAMETER	VALUE
Install Path	rear panel plug-in of Model 705
Related General Purpose	7056
Related Low Current	7058

Specifications

PARAMETER	VALUE
Related Thermocouple	7057
Related High Voltage	7154 (715/716, 1100 V peak)
Signal Class	low level transducer and thermocouple

Specifications

PARAMETER	VALUE
Form	single-slot 705 card
Contacts	2 FormAper channel class
Quick Disconnect	7055 accessory family

Notes

Specs from Keithley Model 705 Scanner user manual (7059: 10 channels, less than 1 uV vs copper, less than 5 ms, 1e8 life below 10 V/10 mA, 200 V or 100 mA peak). Confirm 705 versus 706 mainframe.

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

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