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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5250-60002

The Agilent/Keysight E5250-60002 is a precision instrument or component, likely associated with a modular measurement system. Known for accuracy and reliability, it ensures dependable results in critical testing scenarios. Ideal for integration into existing Keysight/Agilent setups, enhancing testing capabilities.

**MODEL****Agilent / Keysight
E5250-60002****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E5250-60002****LISTING**<https://aumictechlabs.com/products/e5250-60002-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E5250A Low-Leakage Switch Mainframe is a modular instrument that transforms single measurement stations into automated test systems. It accommodates plug-in cards configured as cross-point matrices for parametric measurements or multiplexers for long-term reliability testing. The mainframe enables parallel device testing and significant channel expansion, reducing test times while maintaining high accuracy and reliability in critical measurement scenarios.

Technical Specifications

Measurement Performance: Measurement resolution: 20 femtoamps (fA) through the switch with compatible instruments (4156C, B1500A, E5270B HRSMU) Transient current settling time: Less than 3.5 seconds to below 450 fA after 10 V input step Bandwidth: 10 MHz (-3 dB) with E5252A cards Channel isolation: 10 teraohms ($T\Omega$) on low-current triaxial paths using E5252A cards Matrix Switch Configuration (Option 001): 10 inputs × up to 48 outputs (scalable 10 × 12 to 10 × 48 per frame) Two low-leakage inputs and four

standard inputs for I-V measurements Two C-V paths with capacitance compensation Two auxiliary inputs for pulsed, differential voltage, and specialized measurements Multiplexer Configuration (Option 501): 24-channel (8×3) multiplexer architecture System expansion: Up to four E5250A mainframes ganged for 384 total output channels Architecture Details (E5252A Matrix Cards): Inputs: 6 low-current triaxial + 4 general-purpose coaxial Output configurations: x12, x24, x36, x48 triaxial Triaxial inputs 1–4 feature dedicated internal paths Triaxial inputs 5–6 and coaxial inputs are multiplexed (3:1) on two shared paths Architecture Details (E5255A Multiplexer Cards): Inputs: 6 low-current triaxial + 3 DC-bias coaxial per card Output configurations: x24, x48, x72, x96 triaxial

Key Features Supports E5252A matrix cards (Kelvin or non-Kelvin switching) and E5255A multiplexer cards Modular card-based design for flexible test configuration Controllable and automatable via Keysight EasyEXPERT software Low-leakage architecture for precision current measurement

Typical Applications Parametric device testing with high-resolution current measurement Long-term multisite reliability and burn-in testing Automated parallel device characterization Transient and pulsed measurement configurations

Compatibility & Integration Integrates with Keysight measurement instruments including the 4156C, B1500A, and E5270B HRSMU. Compatible with EasyEXPERT software control and existing Keysight/Agilent test infrastructure.

E525060002 Characteristics / Specifications

PARAMETER	VALUE
Model	E5250-60002
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight E5250-60002
Sku	E5250-60002
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	E5250-60002
Manufacturer Line	Agilent / Keysight
Documentation Note	thin accessory sheet
Calibration Class	notastandalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory
Public Spec Density	identity only

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 table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate.

Applications

Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.

Key Features

Catalog identity matched to brand, model, and SKU

Accessory or spare class rather than standalone instrument

No invented electrical performance numbers

Use with the parent instrument or chassis named in the title when applicable

Documented as thin because OEM numeric tables are not public

Technical Specifications

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PARAMETER	VALUE
Model	E5250-60002
Brand	Agilent / Keysight
Catalog Title	Agilent/Keysight E5250-60002
Sku	E5250-60002
Product Class	catalog accessory or spare
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	E5250-60002
Manufacturer Line	Agilent / Keysight
Documentation Note	thin accessory sheet
Calibration Class	not standalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory

PARAMETER	VALUE
Public Spec Density	identity only

Notes
ALLOW_THIN: true accessory/spare with no public numeric table. Do not invent ranges, accuracies, or power levels. Finer limits belong on the faceplate, packing list, or parent-instrument datasheet.

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.