

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

RACAL

Racal Instruments 2681 Frequency/Time Interval Counter + Load

Astronics / EADS / Racal 2681 Frequency/Time Interval Counter + Load The Astronics / EADS / Racal 2681 is a higher-performance two-channel universal frequency/time-interval counter with an integrated load capability used in automated test environments. It provides automatic measurement functions including Frequency, Period, Time Interval, Time Interval Delay, and Totalize. Frequency measurement extends to 200 MHz with up to 9 digits of resolution per second. Time-interval resolution is 1 ns single-shot and 100 ps in average mode (dealer/OEM listing class). The "+ Load" designation indicates the unit includes a five-watt class programmable/load function associated with the counter package—confirm installed options on the faceplate and accompanying documentation. The Astronics / EADS / Racal 2681 is a higher-performance two-channel universal frequency/time-interval counter with an integrated load capability used in automated test environments. It provides automatic measurement functions including Frequency, Period, Time Interval, Time Interval Delay, and Totalize. Frequency measurement extends to 200 MHz with up to 9 digits of resolution per second. Time-interval resolution is 1 ns single-shot and 100 ps in average mode (dealer/OEM listing class). The "+ Load" designation indicates the unit includes a five-watt class programmable/load function associated with the counter package—confirm

No photo

MODEL Racal 2681	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU 2681	LISTING Off-catalog — OEM datasheet only

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Two-channel universal frequency / time-interval counter
- Automatic functions: Frequency, Period, Time Interval, Time Interval Delay, Totalize
- Frequency to 200 MHz class
- Up to 9 digits/s frequency resolution class
- Time interval: 1 ns single-shot; 100 ps averaged (listing class)
- Integrated load function ("Counter + Load" configuration)
- Suited to automated and benchtop timing measurements

2681 Characteristics / Specifications

PARAMETER	VALUE
Model	2681
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	Frequency / time-interval counter with load
Channels	2 (universal counter inputs)
Frequency Range	to 200 MHz class
Frequency Resolution	up to 9 digits per second class
Time Interval Resolution	1 ns single-shot; 100 ps average mode (listing class)
Functions	Frequency; Period; Time Interval; Time Interval Delay; Totalize
Load	five-watt class load associated with "+ Load" package (confirm option/hardware present)
Form Factor	confirm faceplate / system documentation (counter + load assembly) Standard Operating Conditions Apply correct input coupling, impedance, and trigger levels for the signal under test. Observe maximum input ratings from the 2681 manual. Verify load rating and cooling when using the integrated load.
Automatic functions	Frequency, Period, Time Interval, Time Interval Delay, Totalize
Time interval	1 ns single-shot; 100 ps averaged (listing class)

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 two-channel universal frequency/time-interval counter with an integrated load capability used in automated test environments. It provides automatic measurement functions including Frequency, Period, Time Interval, Time Interval Delay, and Totalize. Frequency measurement extends to 200 MHz with up to 9 digits of resolution per second. Time-interval resolution is 1 ns single-shot and 100 ps in average mode (dealer/OEM listing class). The “+ Load” designation indicates the unit includes a five-watt class programmable/load function associated with the counter package—confirm installed options on the faceplate and accompanying documentation.

Applications

ATE frequency and timing measurement; period and time-interval characterization; totalize/event counting; counter-plus-load stimulus/measure setups in Racal/Astronics test systems.

Key Features

- Two-channel universal frequency / time-interval counter
- Automatic functions: Frequency, Period, Time Interval, Time Interval Delay, Totalize
- Frequency to 200 MHz class
- Up to 9 digits/s frequency resolution class
- Time interval: 1 ns single-shot; 100 ps averaged (listing class)
- Integrated load function (“Counter + Load” configuration)
- Suited to automated and benchtop timing measurements

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	2681
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	Frequency / time-interval counter with load
Channels	2 (universal counter inputs)
Frequency Range	to 200 MHz class
Frequency Resolution	up to 9 digits per second class
Time Interval Resolution	1 ns single-shot; 100 ps average mode (listing class)
Functions	Frequency; Period; Time Interval; Time Interval Delay; Totalize
Load	five-watt class load associated with “+ Load” package (confirm option/hardware present)
Form Factor	confirm faceplate / system documentation (counter + load assembly)

Standard Operating Conditions

Apply correct input coupling, impedance, and trigger levels for the signal under test. Observe maximum input ratings from the 2681 manual. Verify load rating and cooling when using the integrated load.

Operational Notes

Public dealer listings summarize core counter performance; full electrical tables (input impedance, sensitivity, gate times, load I-V) should be taken from the Racal 2681 manual for the installed revision. Confirm “+ Load” hardware is present on the unit being documented.

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

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 2, 2026

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