ORTEC

ORTEC 671

Spectroscopy amplifier

RTEC 671 shapes and amplifies detector pulses for energy s pectroscopy. Settings are matched to the detector, preamplifier a nd count rate.



Gain	Shaping time constants	Integral nonlinearity
.5–1500 [1]	**.5; 1; 2; 3; 6; 10 µs** [1]	**<±0.025 %; 0–+10 , unipolar; 2 µs Gaussian, AUTO BLR** [1]

Specifications

PERFORMANCE

Integral nonlinearity	<±0.025 %; 0–+10 V, unipolar; 2 µs Gaussian, AUTO BLR	[1]
Equivalent input noise	<5.0 µV rms at gain >100; <4.5 µV at >1000; 2 µs Gaussian, AUTO BLR	[1]

MEASURING RANGE

Linear unipolar output	0–+10 V	[1]

ELECTRONICS & SIGNAL

Gain	2.5–1500	[1]
Shaping time constants	0.5; 1; 2; 3; 6; 10 µs	[1]
Input polarity	Positive or negative	[1]
Unipolar pulse shape	Gaussian or triangular	[1]

GENERAL

Module format	Single-width NIM	[1]
Pole-zero adjustment	Manual	[1]

Sources

[1] **671 Spectroscopy Amplifier (A4)**
RTEC (AMETEK) · datasheet · p. 2, Specifications – Performance; p. 3, Controls and Indicators; p. 2, Performance (incl. note on test conditions) · checked 2026-10-16
https://web.archive.org/web/20251016025732/https://www.ortec-online.com/-/media/ametekortec/brochures/6/671-...

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.