ORTEC

ORTEC 673

Spectroscopy amplifier and gated integrator

RTEC 673 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
1–1500 [1]	**.25; 0.5; 1; 2; 3; 6 µs** [1]	**<±0.05 %; typically 0.025 %; u nipolar, 2 µs** [1]

Specifications

PERFORMANCE

Integral nonlinearity	<±0.05 %; typically 0.025 %; unipolar, 2 µs	[1]
Equivalent input noise	<4 µV; unipolar, 3 µs, gain >100	[1]

MEASURING RANGE

Linear unipolar output	0–+10 V	[1]

ELECTRONICS & SIGNAL

Gain	1–1500	[1]
Shaping time constants	0.25; 0.5; 1; 2; 3; 6 µs	[1]
Input polarity	Positive or negative	[1]

GENERAL

Module format	Double-width NIM	[1]
Gated integrator	Separate 0–+10 V output	[1]
Pile-up rejection	Built in	[1]

Sources

[1] **673 Spectroscopy Amplifier and Gated Integrator (A4)**
ORTEC (AMETEK) · datasheet · p. 1, Specifications – Performance; p. 3, Controls; p. 1, Performance · checked 2026-10-16
https://web.archive.org/web/20250828203445/https://www.ortec-online.com/-/media/ametekortec/brochures/6/673-...

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.