ORTEC

ORTEC 570

Spectroscopy amplifier

RTEC 570 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]	**.5; 1; 2; 3; 6; 10 µs** [1]	**<±0.05 % at 2 µs** [1]

Specifications

Gain	1–1500	[1]
Shaping time constants	0.5; 1; 2; 3; 6; 10 µs	[1]
Integral nonlinearity	<±0.05 % at 2 µs	[1]
Equivalent input noise	Typically <5 µV; unipolar, 2 µs, coarse gain ≥100	[1]
Linear unipolar output	0–+10 V	[1]
Input polarity	Positive or negative	[1]
Module format	Single-width NIM	[1]
Baseline restoration	Gated BLR, automatic threshold	[1]

Sources

[1] **570 Amplifier**
RTEC (AMETEK) · datasheet · p. 1, Specifications – Performance; p. 2, Controls (SHAPING TIME); p. 2, Outputs (UNIPOLAR) · checked 2026-10-16
https://web.archive.org/web/20251016161030/https://www.ortec-online.com/-/media/ametekortec/brochures/5/570-...

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.