ORTEC

ORTEC 113

Preamplifier

RTEC 113 – preamplifier from ORTEC.



Rise time	Designed fall time constant	Integral nonlinearity
<60 ns [1]	**50 µ, assuming a signal source i mpedance of 1 MΩ** [1]	**≤±0.02 %** [1]

Specifications

Rise time	<60 ns	[1]
Designed fall time constant	50 µs, assuming a signal source impedance of 1 MΩ	[1]
Integral nonlinearity	≤±0.02 %	[1]
Temperature coefficient	±0.01 %/°C; 0–50 °C	[1]
Output noise	<0.1 mV rms	[1]
Input capacitance	Approximately 45 pF + selectable 0, 100, 200, 500 or 1000 pF	[1]
Linear output range	±7 V open circuit; ±3.5 V into 100 Ω	[1]
utput impedance	Adjustable 40–140 Ω	[1]

Sources

[1] **113 Scintillation Preamplifier**
RTEC (AMETEK) · datasheet · p. 1, Specifications – Performance; p. 1, description text; p. 1, Specifications – Output · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin...

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.