ORTEC

ORTEC 9305

Preamplifier

Fast preamplifier positioned close to the detector to amplify small, fast signals.



Voltage gain
Nominally 5–10; non-inverting [1]

utput rise time
<3 ns; ±5 V into 50 Ω [2]

Equivalent input noise
<25 µV; HP3400A rms meter; <30 µV at 200 MHz wideband [1]

Specifications

Voltage gain	Nominally 5–10; non-inverting	[1]
utput rise time	<3 ns; ±5 V into 50 Ω	[2]
Equivalent input noise	<25 µV; HP3400A rms meter; <30 µV at 200 MHz wideband	[1]
Bandwidth	>120 MHz	[1]
Linear output range	±5 V into 50 Ω	[2]
Input impedance	50 Ω	[2]

Sources

[1] **9305 Fast Preamplifier**
RTEC (AMETEK) · product-page · product page · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/prea…

[2] **9305 – Fast Preamplifier**
ORTEC (AMETEK) · datasheet · p. 1 · 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.