ORTEC

ORTEC 9306

Preamplifier

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



Identical outputs

2 [1]

Specifications

PERFORMANCE

Equivalent input noise	<100 µV rms over full bandwidth	[1]

MEASURING RANGE

Linear output into 50 Ω	0––1.75 V	[1]

ELECTRONICS & SIGNAL

Voltage gain	Nominally 100; adjustable 50–150; non-inverting	[1]
utput rise time	Typically 350 ps	[1]
Typical 3 dB bandwidth	100 kHz–1 GHz	[1]
Input impedance	50 Ω	[1]
Identical outputs	2	[1]
Unused output	Must be terminated into 50 Ω	[2]

CONNECTIVITY & INTERFACE

Input connector	SMA	[2]
utput connector	SMA	[2]

GENERAL

Measurement conditions	Pulse width 2 ns FWHM, 150 ps rise time; corrected where relevant	[1]

Sources

[1] **9306 1-GHz 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] **9306 – 1-GHz 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.