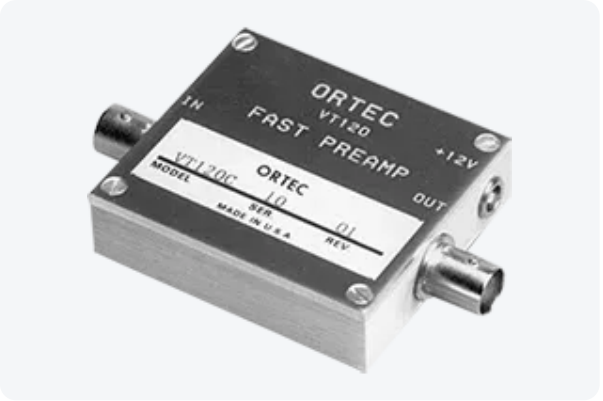
ORTEC

ORTEC VT120A

Preamplifier

Compact fast preamplifier for signals from photomultipliers, microchannel plates and silicon detectors.



Gain	Rise time	Equivalent input noise
200 ±10 %; non-inverting [1]	**≤1 ns** [1]	**≤20 µV rms** [1]

Specifications

PERFORMANCE

Equivalent input noise	≤20 µV rms	[1]

MEASURING RANGE

utput into 50 Ω	0––5 V	[2]

ELECTRONICS & SIGNAL

Gain	200 ±10 %; non-inverting	[1]
Bandwidth	10–350 MHz	[1]
Input impedance	50 Ω	[1]

CONNECTIVITY & INTERFACE

Signal connectors	BNC	[1]

POWER & BATTERY

Power required	+12 V; 50 mA	[2]

MECHANICAL

Dimensions	5.8 × 5.1 × 1.6 cm	[2]

GENERAL

Rise time	≤1 ns	[1]

Sources

[1] **VT120 Fast Timing Preamplifier**
RTEC (AMETEK) · product-page · product page – description and Gain; product page; product page – description · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/prea...

[2] **VT120 – Fast-Timing 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.