ORTEC

ORTEC 935A

Quad constant-fraction discriminator

Four independently adjustable discriminators for fast timing, with common veto and individual channel gates for multidetector systems.



Independent channels	Input impedance	Linear input range
4 [1]	**50 Ω** [1]	**−20 mV…−5 V** [1]

Specifications

PERFORMANCE

Pulse-pair resolution	<4 ns	[1]

MEASURING RANGE

Linear input range	−20 mV…−5 V	[1]
Threshold range	−15…−1000 mV	[2]

ELECTRONICS & SIGNAL

Independent channels	4	[1]
Input impedance	50 Ω	[1]
Maximum input voltage	−10 V	[1]
utput pulse width	2–500 ns	[1]
utput amplitude	−800 mV into 50 Ω load	[1]

ENVIRONMENT & RATINGS

perating temperature	0–50 °C	[1]

GENERAL

Constant fraction	20% of maximum input pulse amplitude	[1]

Sources

[1] **935A – Quad 200-MHz Constant Fraction Discriminator**
ORTEC (AMETEK) · datasheet · p. 1 · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin…

[2] **935A Quad 200-MHz Constant Fraction Discriminator**
RTEC (AMETEK) · product-page · product page · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/fast…

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.