ORTEC

ORTEC CF8000

Octal constant-fraction discriminator

Eight-channel constant-fraction timing module for multidetector experiments, with internal delays and logic outputs supporting coincidence measurements.



Channels

8 [1]

Specifications

PERFORMANCE

Pulse-pair resolution	<50 ns	[2]

MEASURING RANGE

Input amplitude range	0…−5 V	[2]
Nominal threshold range	−30 mV…−1 V	[2]

ELECTRONICS & SIGNAL

Channels	8	[1]
Maximum input/output rate	20 MHz	[2]
Input impedance	50 Ω	[1]

GENERAL

Constant-fraction ratio	0.4	[1]
Internal delay	2, 4, 6, 8, 10 ns	[1]
Time walk	<±250 ps, −50 mV…−5 V; 1 ns rise time, 10 ns width, 2 ns delay, minimum threshold	[1]

Sources

[1] **CF8000 Octal 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…

[2] **CF8000 – Octal Constant-Fraction Discriminator**
ORTEC (AMETEK) · datasheet · p. 1 · checked 2026-10-16
https://web.archive.org/web/20231020180544/https://www.ortec-online.com/-/media/ametekortec/brochures/c/cf80…

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.