ORTEC

ORTEC 474

Timing amplifier

Filters and amplifies fast detector signals for timing measurements and pulse processing.



Channels
1 [1]

Specifications

PERFORMANCE

Nonlinearity	≤±0.05% at midband frequency, over ±5 V range	[1]
Input noise at maximum gain	≤10 µV rms; integration = differentiation = 200 ns	[1]

MEASURING RANGE

Linear output into 50 Ω	0–±5 V	[1]

ELECTRONICS & SIGNAL

Channels	1	[1]
Input signal	0–±1 V	[1]
Gain	2–250	[1]

ENVIRONMENT & RATINGS

Temperature range for stability specification	0–50 °C	[1]

GENERAL

Rise time, filters out	≤10 ns	[1]
Integration/differentiation times	Out; 20; 50; 100; 200; 500 ns	[1]

Sources

[1] **474 Timing Filter Amplifier**
RTEC (AMETEK) · datasheet · p. 1, Input; Outputs (single INPUT and single OUTPUT connector); p. 1, Specifications – Performance; p. 1, features; Controls · 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.