ORTEC

ORTEC 542

Linear gate and stretcher

Selects analog pulses by coincidence conditions and converts them to a uniform pulse shape, with separate output-width and delay adjustment.



Linear amplitude range	utput delay after peak detection	utput pulse width
+0.1…+10 V [1]	**.5–5 µs** [1]	**.5–5 µs** [1]

Specifications

PERFORMANCE

utput delay after peak detection	0.5–5 µs	[1]
Input-referred noise contribution	<20 µV rms	[1]

MEASURING RANGE

Linear amplitude range	+0.1…+10 V	[1]

ELECTRONICS & SIGNAL

utput pulse width	0.5–5 µs	[1]
Input rise time	100 ns–10 µs	[1]
utput rise time	300 ns	[1]
Front output impedance	<1 Ω	[1]
Input impedance	≈1 kΩ	[1]

GENERAL

Gate period	0.5–5 µs	[1]

Sources

[1] **542 Linear Gate and Stretcher**
RTEC (AMETEK) · datasheet · p. 2, Inputs (LINEAR); p. 2, Outputs (OUTPUT – Delay); p. 2, Outputs (OUTPUT – Width) · 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.