

# High Voltage EO Modulator/Switch Driver

(up to 2kV)



DATASHEET

BUY NOW



These HVED series drivers produce alternative high voltage pulses up to 2kV with a fast rise/fall time of <10ns. The + - driving scheme removes charge building up inside an electro-optical crystal, which reduces the on/off ratio and stability. The voltage amplitude and pulse width are proportional to the input trigger signal. For voltage less than 500V, we provide cost-effective PCB. For voltage higher than 500V is dangerous to operate; thus, great caution must be applied at all times. For output voltage exceeding 1000V, the minimum voltage is 100V.

## Features

- 2kV High Voltage
- 10ns Rise/Fall
- Analog Response

## Applications

- EO Device Control

## Specifications

Parameter	Min	Typical	Max	Unit
Output Voltage	DC		2000	V
Rise/Fall Time <sup>[1]</sup>		7	10	ns
Pulse Width	0.2		8000	μs
Delay Time			200	ns
Repetition Rate		0.5	2 <sup>[4]</sup>	kHz
Pulse Jitter	1		20	ps
Internal Timing <sup>[2]</sup>		100		μs
Operating Temperature <sup>[3]</sup>	-5		40	°C
Input Power				
Humidity 90%		noncondensing		
Storage Temperature	-40		85	°C

### Notes:

- [1]. At 10-90% level. Also affect by amplitude and capacitor load
- [2]. The driver refreshes every 100 μs, which causes a small ripple and skip of triggering.
- [3]. The driver automatically shuts down at 70°C
- [4]. Require additional cooling

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## Mechanical Footprint Dimensions (mm)

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

## Ordering Information

Prefix	Max Voltage	Package	Alternating	Extra Cooling	Repetition	1	1
<b>HVED-</b>	400V = 04 500V = 05 1000V = 10 1200V = 12 Special = 00	PCB = 1 Box = 2 Special = 0	None = 1 Yes = 2	Non = 1 Yes = 2	100kHz <sup>[1]</sup> = 1 Special = 0		

[1]. 400V 100kHz is 200kHz at 200V