

# DC-5KHz Driver for NanoSpeed™ Switch

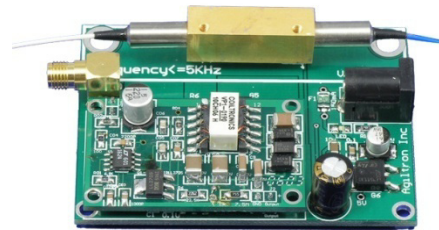
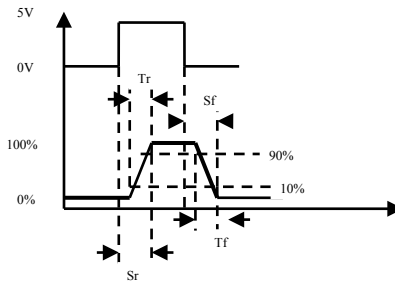
(patent pending)

## Product Description

The NS Switch driver provides driving signals for the NS series solid state switches. The push-pull output design ensures fast switching time for both rising and falling edges, and it is especially suitable for driving capacitive loads. The standard driver controls one individual switch. Drivers that control multiple switches also are available. It has a built-in protector (LED flash) against higher driving speed over 5MHz and can be reset by restarting the power.

## Features

- High speed
- High output voltage
- Wide input voltage range
- TTL/CMOS control
- Push-Pull output design
- Low power consumption
- Compact and low cost



## Performance Specifications

Specs	Min	Typical	Max	Unit
Rise Time (Tr) <sup>1</sup>		85	100	ns
Fall Time (Tf) <sup>2</sup>		85	100	ns
Switch Speed (Rise) (Sr) <sup>3</sup>		200	250	ns
Switch Speed (Fall) (Sf) <sup>3</sup>		200	250	ns
Repetition Rate <sup>8</sup>	DC		5	KHz
Pulse Width <sup>5</sup>	1.0		≥1.0	us
Control Input	0		5	V
Power Consumption <sup>6</sup>	0.6		2@5KHz	W
Power Supply		12		V
Operating Temperature	-5		70	°C
Storage Temperature	-40		80	°C
Electrical Connector	SMA			
Board Size	2.8(W)x2.0(D)x1(H)			Inch

Note:

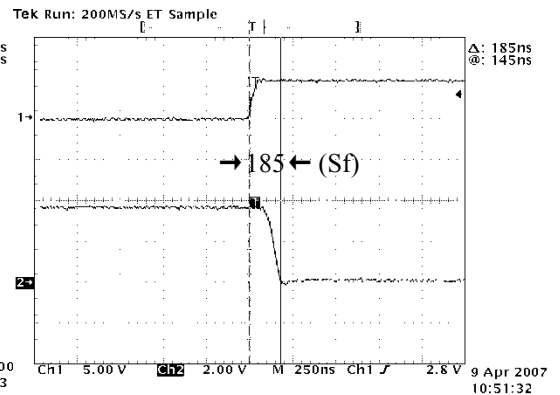
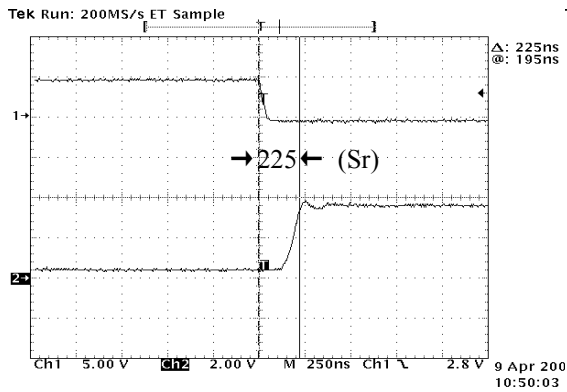
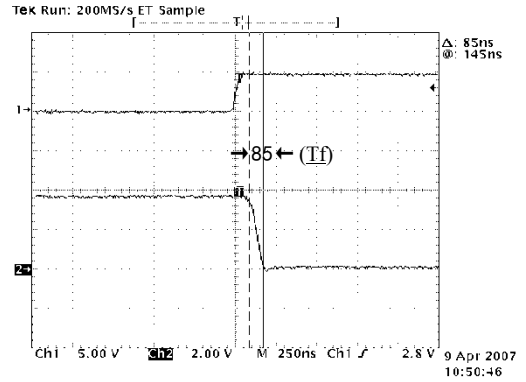
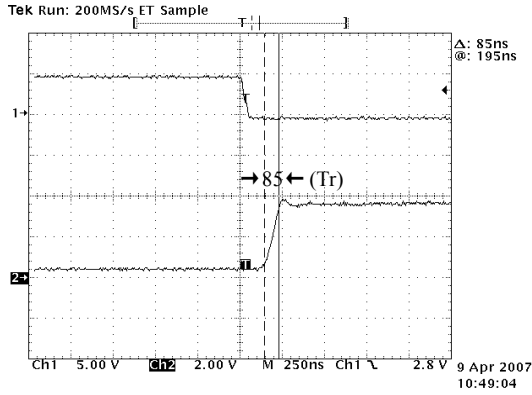
- 1: Optic Intensity Change from 10% to 90% intuit;
- 2: Optic Intensity Change from 90% to 10% intuit;
- 3: Including electronic signal delay;
- 5: Optical Waveform;
- 6: Dependent on repetition frequency;
- 7: TTL signal compatible for drive switch.
- 8: If repetition rate is larger than 5KHz, an alarm LED will be flashing. Restart power will release this protection.

## Applications

- Optical Switch
- EO device driver
- Piezoelectric driver
- Pockel Cell driver

# DC-5KHz Driver for NanoSpeed™ Switch

## Response Measurement



## Ordering Information

SWDR-	1 1	<input type="checkbox"/>	2	<input type="checkbox"/>	1	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
	Type	Repetition	Device	Size		# of Switch	Connector
		DC-5KHz=1 Special=0		2.8"x2.0"x1"=2 Special=0		1 switch=11	SMA=2 Special=0