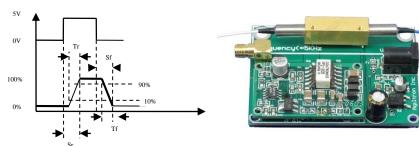


DC-5KHz Driver for NanoSpeed™ Switch

(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 repetition rate over 5MHz and can be reset by restarting the power.



Performance Specifications

Specs	Min	Typical	Max	Unit			
Rise Time (Tr) ^[1]		85	100	ns			
Fall Time (Tf) ^[2]		85	100	ns			
Switch Speed (Rise) (Sr) [3]		200	250	ns			
Switch Speed (Fall) (Sf) [3]		200	250	ns			
Repetition Rate ^[4]	DC		5	kHz			
Pulse Width	1.0			us			
Control Input	0		5	V			
Power Consumption	0.6		3	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% intuits;
- [2]: Optic Intensity Change from 90% to 10% intuits;
- [3]: Including electronic signal delay;
- [4]: When the repetition rate is > 5kHz, an alarm LED will be flashing. Restart DC power to release this protection.

Features

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

Applications

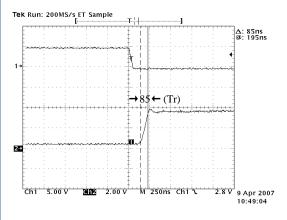
- Optical Switch
- EO device driver
- Piezoelectric driver
- Pockel Cell driver

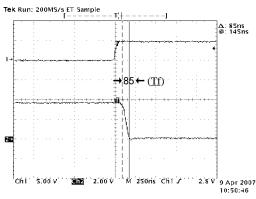
Revision: 01-09-2017

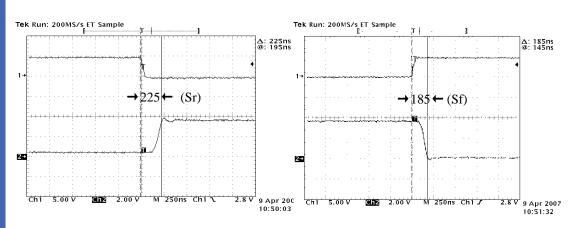


DC-5KHz Driver for NanoSpeed™ Switch

Response Measurement







Ordering Information

SWDR-	1		2	5	1		1	
	Switch Type	Function	Latching or not	Repeat rate	Footprint	# of Switch	Control Mode	DC supply
	NS Switch =1	1x1 = 1a 1x2 = 2a 2x1 = 2b 2x2 = 22 1x4 = 4a 4x1 = 4b 1x12 = 12 1xM = M (M > 9) Special=00		5kHz = 5 100kHz = 6 500kHz = 9 Special = 0	Standard = 1 Special = 0	1 switch=1 2 switches=2 3 switches=3 N switches=N Special=0	TTL=1 USB =2 RS232 =3 TTL & USB = 4 RS232 & USB = 5 Special=0	12VDC =1 5VDC ^[1] =2 Special =0

[1]: 5V DC supply may not be available for certain switch. Please have a consultant with sale's manager.