

BUY NOW

100kHz Driver for NanoSpeed™ Variable Optic Attenuator (Preliminary)

(patents pending)

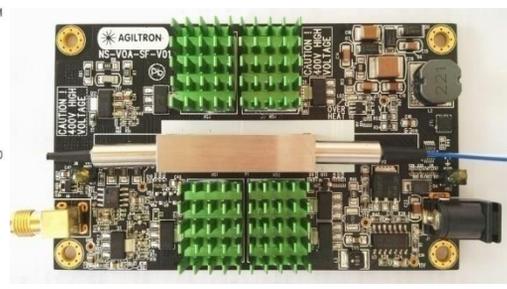
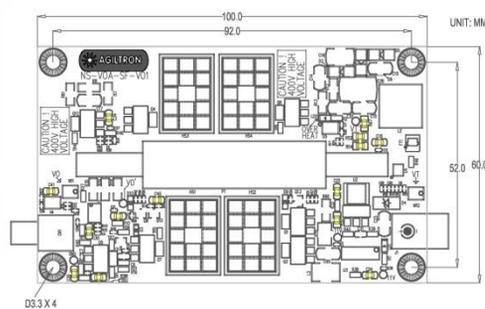
Product Description

This NS series of fast-speed driver is designed to control NS and NP series of solid state variable optic attenuators (VOA). The push-pull output design is especially suitable for driving capacitive VOA loads, assuring the fast response time both on rising and falling of attenuation. The driver can be operated by 0-5V signal to control the attenuation of VOA.

The standard driver controls one individual VOA. Drivers controlling multiple VOAs are also available, please call Sales at (781) 935-1200 for more information.

Features

- Fast response
- High repetition rate
- Push-Pull output design
- Low quiescent power consumption



Performance Specifications

Technical Specs	Min	Typical	Max	Unit
Response time (Rise) (Sr) [1]	250		850	ns
Response time (Fall) (Sf) [2]	250		850	ns
Repetition Rate [3]	DC		100	kHz
Control signal for attenuation	0		5[4]	V
Power Consumption [5]			8	W
Power Supply	12		24	V
Operating Temperature	-5		70	°C
Storage Temperature	-40		80	°C
Electrical Connector	SMA			
Board Size	3.94(L)x2.36(W)x0.6(H)			Inch

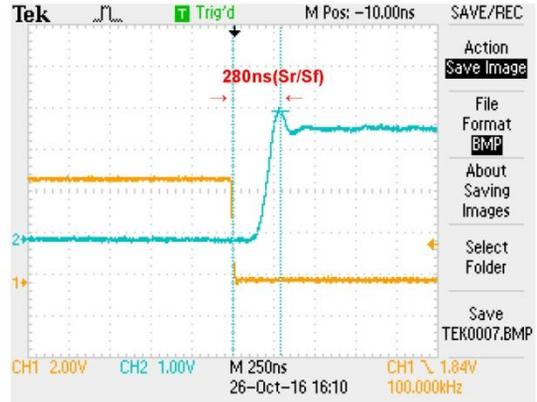
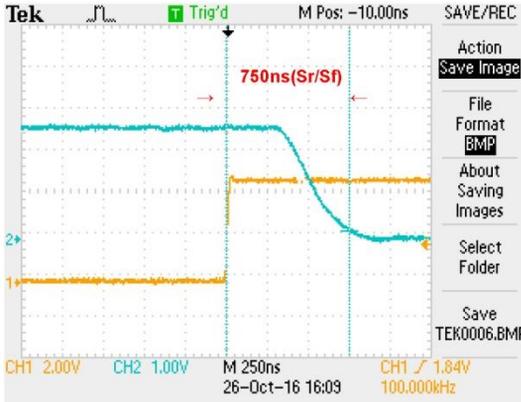
[1]: Response time (Rise): Begin of electronic signal to the completion of optic intensity change
 [2]: Response time (Fall): Begin of electronic signal to the completion of optic intensity change.
 [3]: Defined for single stage of NVOA, which can be up to 200kHz in max for NP type of VOA.
 [4]: For full attenuation in VOA
 [5]: Dependent on repetition frequency. Measured for the attenuation > 20dB at 100 kHz.

Applications

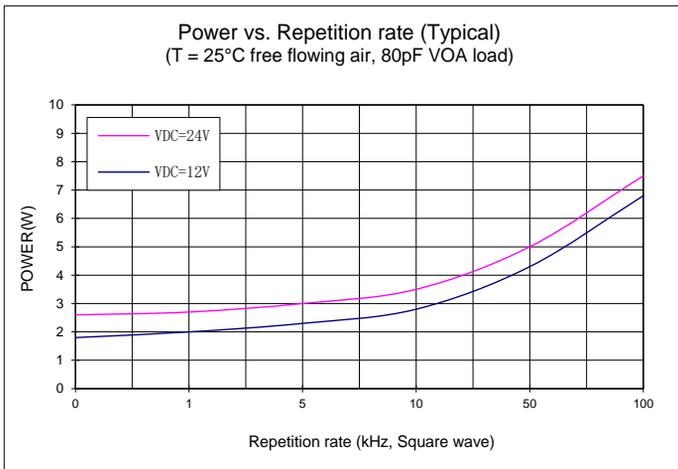
- NS-VOA
- Optical Modulator
- Variable beam splitter

DC-100KHz Driver for NanoSpeed™ VOA

Response Time



Power Consumption (Typical for NVOA)



Ordering Information

NVDR-	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	2	<input type="checkbox"/>	1	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
	Type	Repetition [1]		Size		# of VOA	Connector
	NS type, single stage = 11 NS type, dual stage = 21	DC-20kHz = 1 DC-100kHz = 2		DC-20kHz = 1 DC-100kHz = 2 Special=0		Single VOA = 11 N of VOA = N1 Special = 00	SMA=2 Special=0
	NP type, single stage = 1P NP type, dual stage = 2P	DC-20kHz = L DC-200kHz = M		DC-20kHz = L DC-200kHz = M Special=0		Single VOA = 11 N of VOA = N1 Special = 00	SMA=2 Special=0

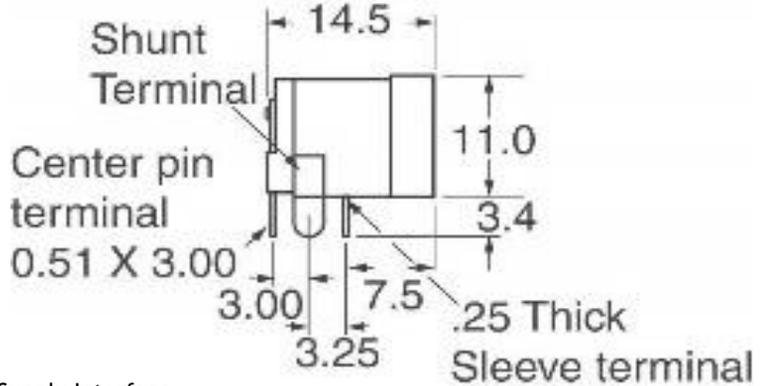
[1]: The repeat rate for NVOA driver is defined for single stage. The maximum repeat rates will be reduced to 10kHz and 60kHz for dual-stage NVOA respectively.

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

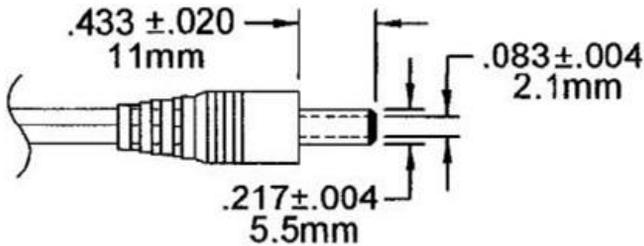
DC-100KHz Driver for NanoSpeed™ VOA

Power Connector

P/N: SC1313-ND
 Power Barrel Connector Jack 2.00mm ID (0.079"),
 5.50mm OD (0.217") Through Hole, Right Angle



12V Wall Plug DC Power Supply Interface



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