

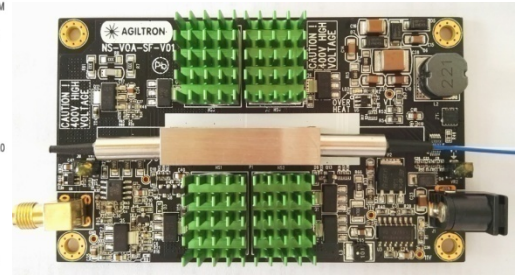
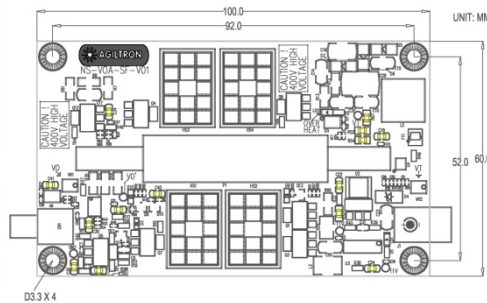
100kHz Driver for NanoSpeed™ Variable Optic Attenuator (Preliminary)

(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.



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 NVOA, which can be up to 200kHz in max for NPOA type of VOA.

[4]: For full attenuation in VOA

[5]: Dependent on repetition frequency. Measured for the attenuation > 20dB at 100 kHz.

Features

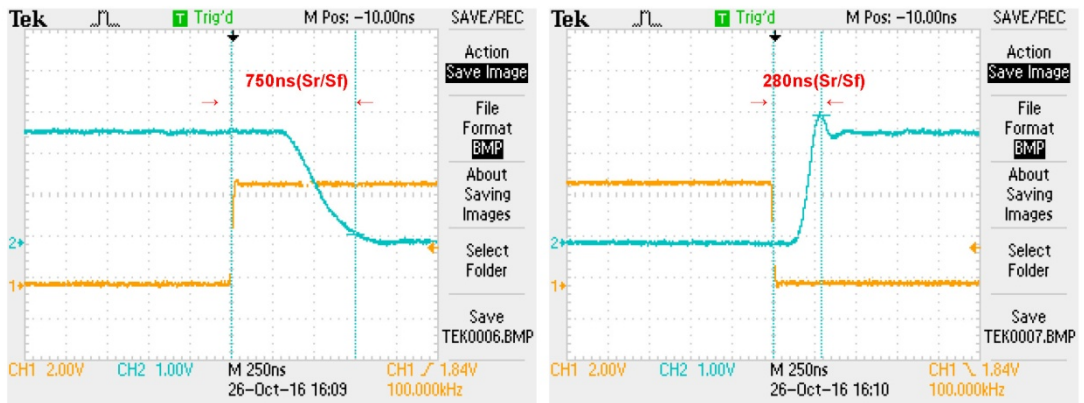
- Fast response
- High repetition rate
- Push-Pull output design
- Low quiescent power consumption

Applications

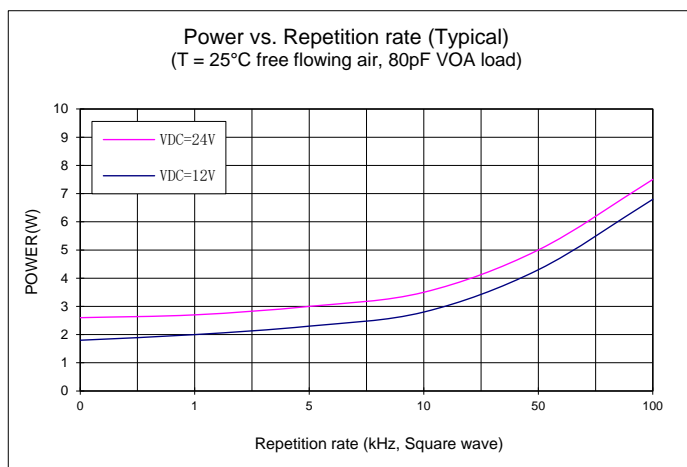
- NS-VOA
- Optical Modulator
- Variable beam splitter

DC-100KHz Driver for NanoSpeed™ VOA

Response Time



Power Consumption (Typical for NVOA)



Ordering Information

NVDR-	<div><div></div><div></div></div>	<div><div></div></div>	2	<div><div></div></div>	1	<div><div></div><div></div></div>	<div><div></div></div>
	Type	Repetition		Size		# of VOA	Connector
	NS type, single stage = 11 NS type, dual stage = 21	DC-5kHz = 1 DC-100KHz = 2		DC-5kHz = 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-10kHz = L DC-200KHz = M		DC-10kHz = L DC-200KHz = M Special=0		Single VOA = 11 N of VOA = N1 Special = 00	SMA=2 Special=0