

(patents pending)



DATASHEET





The NS VOA Driver provides driving signals for the NS series solid state VOAs. The push-pull output design ensures fast switching time for both rising and falling edges, and it is especially suitable for driving capacitive VOA loads.

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

Features

- High Speed
- High Output Voltage
- Wide Input Voltage Range
- TTL/CMOS/Other Control
- Push-Pull Output Design
- Low Power Consumption

Applications

- Optical VOA
- Optical Switch
- Optical Modulator

Specifications

Parameter	Min	Typical	Max	Unit
Rising Speed (Sr) [1]	450	600	750	ns
Falling Speed (Sf) [2]	450	600	750	ns
Repetition Rate	DC		20	kHz
Pulse Width ^[3]	1.0			us
Input Control Voltage [4]	0	4.5	5	V
Power Consumption [5]			1.3	W
Power Supply	5		12	V
Operating Temperature	-5		70	°C
Storage Temperature	-40		80	°C
Electrical Connector		SMA		

Notes:

- [1]: Duration from begin of electronic signal to end of optic intensity change
- [2]: Duration from begin of electronic signal to end of optic intensity change
- [3]: Pulse working mode
- [4]: For full attenuation. Low voltage version is available, see the order information.
- [5]: Dependent on repetition frequency, measured at 20kHz

Warning: The device mounted on the PCB is an OEM module designed for system integration only, not for general uses. Do not touch the PCB by hand. The electrical static can kill the chips even without a power plug-in, and unpleasant electrical shock may also be felt. For laboratory use, please buy a protected Turnkey system.

Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind Agiltron only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with the use of a product or its application.

Rev 12/14/23

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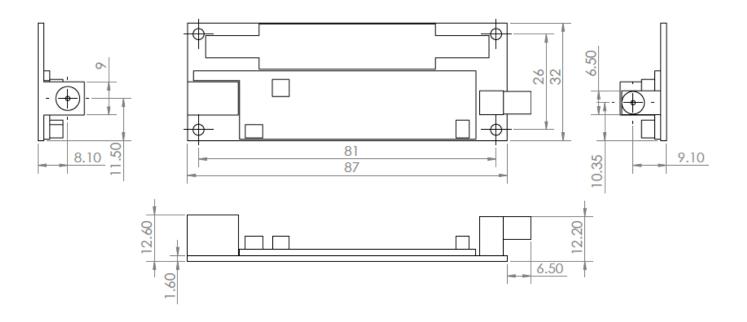




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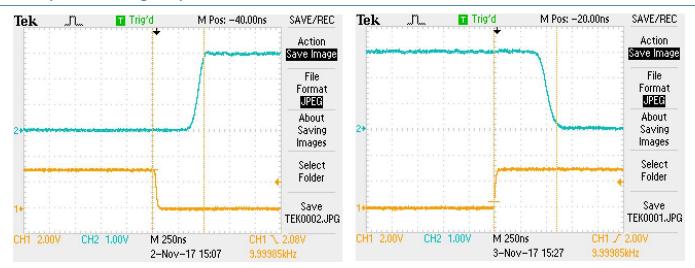
Mechanical Dimensions (mm)



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

Electric-Optic Switching Response

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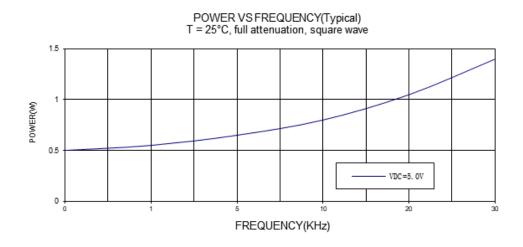


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Power Consumption



Ordering Information

	11	3	2				
Prefix	Туре	Repetition		Size	Input control voltage	# of VOA	Connector
NVDR-		DC-20kHz = 3 Special = 0		3.5"x1.25" = 3 Special = 0	3.3V version = 3 5.0V version = 5	Single VOA = 11 Special = 00	SMA = 2 Special = 0

Fiber Core Alignment

Note that the minimum attenuation for these devices depends on excellent core-to-core alignment when the connectors are mated. This is crucial for shorter wavelengths with smaller fiber core diameters that can increase the loss of many decibels above the specification if they are not perfectly aligned. Different vendors' connectors may not mate well with each other, especially for angled APC.

Fiber Cleanliness

Fibers with smaller core diameters (<5 µm) must be kept extremely clean, contamination at fiber-fiber interfaces, combined with the high optical power density, can lead to significant optical damage. This type of damage usually requires re-polishing or replacement of the connector.

Maximum Optical Input Power

Due to their small fiber core diameters for short wavelength and high photon energies, the damage thresholds for device is substantially reduced than the common 1550nm fiber. To avoid damage to the exposed fiber end faces and internal components, the optical input power should never exceed 20 mW for wavelengths shorter 650nm. We produce a special version to increase the how handling by expanding the core side at the fiber ends.



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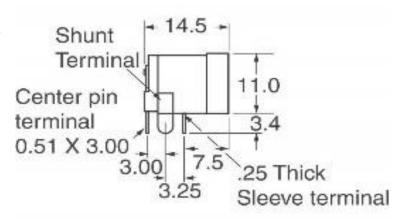


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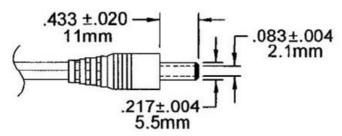
Q&A

P/N: <u>SC1313-ND</u>
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



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Typical Operation Instructions

- 1. Connect a control signal to the SMA connector on the PCB.
- 2. Attach the accompanied power supply (typically a wall-pluggable unit).
- 3. The device should then function properly.

Note: Do not alter device factory settings.

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