



Fast Pulse Test Solutions

High Speed – High Current – High Voltage

Avtech produces a unique series of pulse generators, drivers, amplifiers, and accessories for research laboratory and production testing applications.

For the full product line, pricing and application assistance see:

<http://www.avtechpulse.com>

What's your application? We have over 500 models to meet your needs!

Pulsed Laser Diodes

- ↳ <http://www.avtechpulse.com/laser>
- ↳ <http://www.avtechpulse.com/current>

MEMS Research

- ↳ <http://www.avtechpulse.com/function>
- ↳ <http://www.avtechpulse.com/high-voltage>

Ground Penetrating Radar

- ↳ <http://www.avtechpulse.com/monocycle>
- ↳ <http://www.avtechpulse.com/impulse>

100 ps Rise Times

- ↳ <http://www.avtechpulse.com/speed>

High Current

- ↳ <http://www.avtechpulse.com/laser>
- ↳ <http://www.avtechpulse.com/current>

Air Bag Testing

- ↳ <http://www.avtechpulse.com/current>

Ultrasonic Excitation

- ↳ <http://www.avtechpulse.com/monocycle>
- ↳ <http://www.avtechpulse.com/impulse>

Semiconductor Switching Times

- ↳ <http://www.avtechpulse.com/semiconductor>

Blue Diode Research

- ↳ <http://www.avtechpulse.com/current>

UWB and Impulse Technology

- ↳ <http://www.avtechpulse.com/impulse>

Fuse and Resistor Testing

- ↳ <http://www.avtechpulse.com/current>
- ↳ <http://www.avtechpulse.com/medium>

Pulse Amplification

- ↳ <http://www.avtechpulse.com/amplifiers>

Time of Flight, Beam Blanking, Image Intensifier Gating

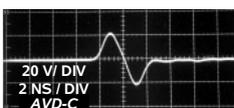
- ↳ <http://www.avtechpulse.com/flight>

Frequency Division

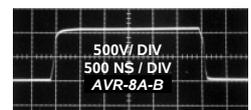
- ↳ <http://www.avtechpulse.com/divider>

High Voltage

- ↳ <http://www.avtechpulse.com/medium>
- ↳ <http://www.avtechpulse.com/high-voltage>
- ↳ <http://www.avtechpulse.com/flight>



<http://www.avtechpulse.com/>



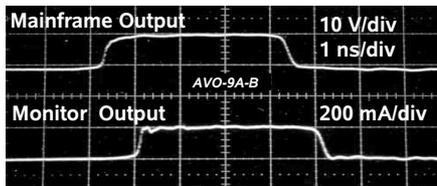
PULSED LASER DIODE DRIVERS WITH PLUG-IN SOCKETS

A simple way to test ultra-fast laser diodes! Each model includes a specially-designed, ultra-high-speed socket for your laser diode. The AVO-9 series combines cutting-edge performance with ease-of-use.

Each of the 16+ models in the Avtech AVO-9 series of laser diode drivers includes a replaceable output module with an easy-to-use ultra-high-speed socket suitable for use with sub-nanosecond rise time pulses. Models with maximum currents of 0.1A to 10A are available. GPIB, RS-232, and Ethernet control available.



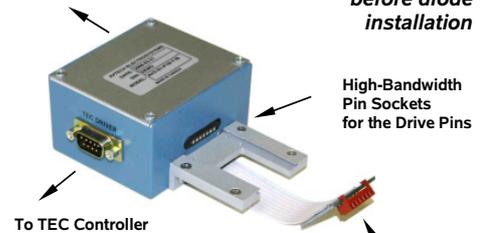
Driver Mainframe



Datasheets and pricing at www.avtechpulse.com/laser

Cables To Driver Mainframe

Output module, before diode installation



High-Bandwidth Pin Sockets for the Drive Pins

To TEC Controller

Low-Bandwidth Slide-On Socket for Thermal Control Pins



Output module, with diode installed

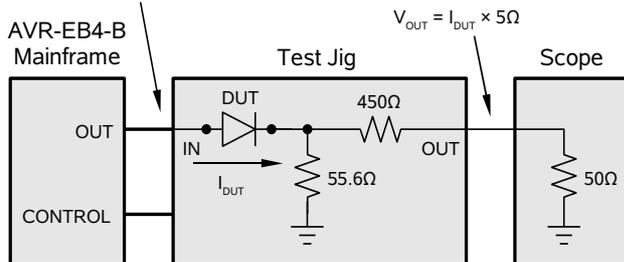
SEMICONDUCTOR REVERSE & FORWARD RECOVERY, LIFETIME & TRANSITION TIME TESTING

The models in the AVR-EB and AVR-EBF families provide test solutions for semiconductor forward and reverse recovery time measurements (t_{RR} and t_{FR}), and forward peak voltage (V_{FM}) measurements. Standard and customized test jigs are available to simplify testing of different packages (DO-41, MELF, stud, TO-220, TO-3, and others).

- Test systems for t_{RR} , t_{FR} , V_{FM} , t_t .
- Convenient socket mounting of the DUT
- IEEE-488.2 GPIB and RS-232 ports standard
- Forward-to-reverse switching times as fast as 1 ns!
- Reverse currents as high as -8 Amps
- Customized parameters and test jigs available

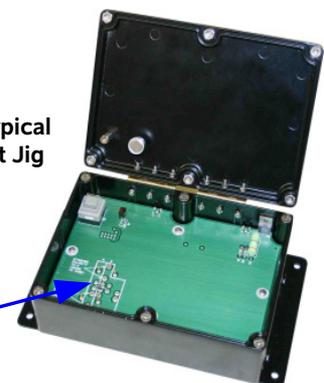


Mainframe



A Typical Test Jig

Flexible pin socket arrangement for Devices Under Test



Datasheets and pricing at www.avtechpulse.com/semiconductor

2 – 500 AMP PULSE GENERATORS FOR LASER AND LOW IMPEDANCE LOADS AVERAGE POWER TO 5000 WATTS!

Avtech's extensive line of pulsed voltage and pulsed constant current drivers feature user-friendly output cabling techniques such as the flexible 1 Ohm AV-CLZ1 cable (see <http://www.avtechpulse.com/transmission/>).

PULSED VOLTAGE DRIVERS

Pulsed voltage sources are preferred for ease of use, low rise time and high output power (and current). Avtech units provide voltages as high as 700 Volts, currents as high as 500 Amps, rise times as low as 1 ns, and average output power as high as 5000 Watts.

Datasheets, pricing at
www.avtechpulse.com/laser



See <http://www.avtechpulse.com/laser/avoz-a3/>

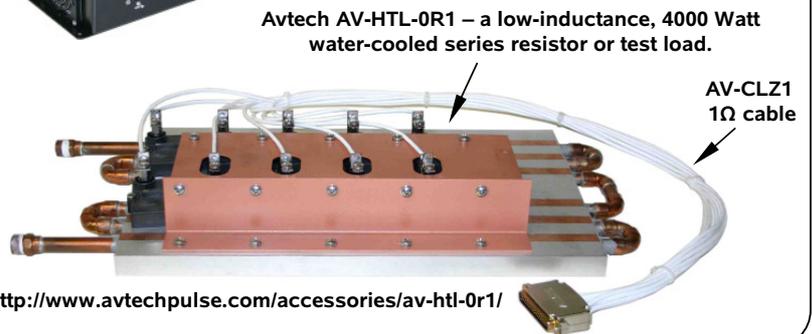


Avtech AVX-RL3 – a low inductance, 50 Watt air-cooled test load resistor. See <http://www.avtechpulse.com/accessories/avx-r13/>

PULSED CONSTANT CURRENT DRIVERS

Avtech offers over 37 models which provide a constant pulsed load current regardless of the load resistance or voltage provided the load voltage does not exceed the compliance voltage rating. Avtech provides units with the current ratings of 2 to 200 Amps, voltage ratings of 5 to 60 Volts, maximum pulse width ratings of 200 ns to 100 ms, rise times from 10 ns to 10 us and average output power ranges to 400 Watts.

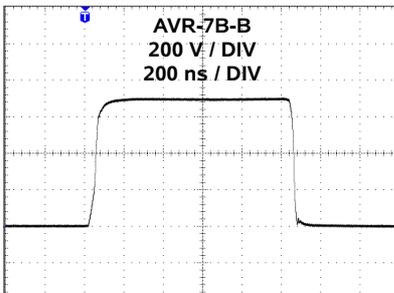
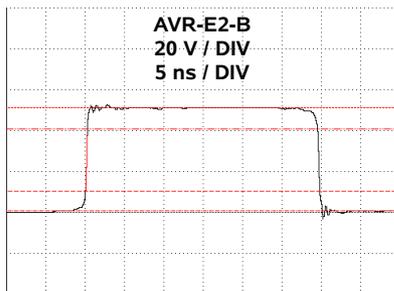
Datasheets, pricing at
www.avtechpulse.com/current



See <http://www.avtechpulse.com/accessories/av-htl-0r1/>

MEDIUM & HIGH -VOLTAGE FAST RISE TIME PULSE GENERATORS

Avtech offers over 75 user friendly models providing outputs from 50 to 3000 Volts with rise times from 500 ps to 100 ns.



Datasheets and pricing at
www.avtechpulse.com/high-voltage

HIGH-VOLTAGE, HIGH-POWER LINEAR AMPLIFIERS AND FUNCTION GENERATORS



AV-153 SERIES FUNCTION GENERATORS

- Amplitudes up to ± 200 Volts, 15 – 90 Watts
- Sine, square, or triangle, with DC offset
- Amplifier mode for arbitrary input waveforms
- GPIB control standard, burst mode optional

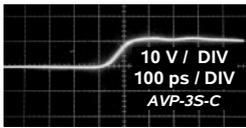


AV-112 SERIES AMPLIFIERS

- Four variable-gain linear amplifiers
- 8 to 90 Watts average output power
- AV-112AH-PS: ± 200 V to 1.2 k Ω , 300 kHz
- AV-112C-PS: ± 90 V to 100 Ω , 30 kHz
- DC offset, dual channel options available

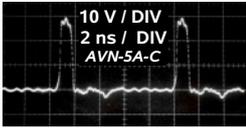
Datasheets and pricing at
www.avtechpulse.com/function &
www.avtechpulse.com/high-voltage

50, 100 & 200 ps Rise Time Pulse Generators



AVP, AVPP, AVMP Series

- ★ 2, 5, 10, 15 & 20 Volt amplitudes
- ★ 200 ps, 4 ns, 100 ns & 1 us pulse widths
- ★ 50, 60, 100 & 200 ps rise times
- ★ 100 kHz and 1 MHz PRF ranges



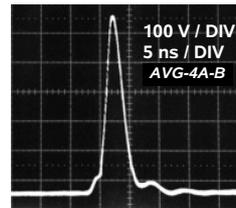
AVM, AVN, AVNN Series

- ★ 25 and 250 MHz PRF ranges
- ★ 5, 10, 20 & 30 Volt amplitudes
- ★ 1, 2, 5, & 30 ns pulse widths
- ★ 100, 150 ps rise times
- ★ 30 – 70 % duty cycle models

See www.avtechpulse.com/speed for more details.

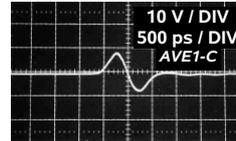
HIGH SPEED

Nanosecond Impulse & Monocycle Generators



AVH, AVMH, AVG Impulse Series

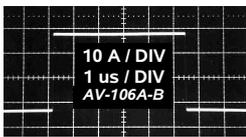
- ★ Over 25 models
- ★ 10, 50, 100, 250, 1000 Volt units
- ★ 130 ps, 500 ps, 1, 5 & 8 ns pulse widths
- ★ 10 kHz, 1 MHz, 25 MHz PRF ranges
- ★ GPIB IEEE-488.2 control option
- ★ See www.avtechpulse.com/impulse



AVA, AVB Monocycle Series

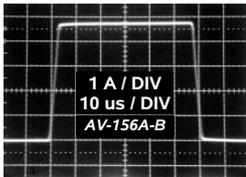
- ★ Over 20 models
- ★ Center frequencies from 10 to 5000 MHz.
- ★ Amplitudes from 4 to 750 Volts
- ★ PRF from 20 kHz to 1 MHz
- ★ Harmonic imaging options
- ★ Lab instruments and OEM modules
- ★ www.avtechpulse.com/monocycle

Pulsed Constant Current Drivers



AV-106, AV-107, AV-108 Series

- ★ 2, 10, 50, 100 & 200 Amp models
- ★ 5, 20, 50, 60 & 100 V compliance ratings
- ★ 1, 10, 100 us, 1 & 10 ms PW ratings
- ★ 10 ns, 100 ns, 1 us & 10 us t_R ratings
- ★ For lasers & general component testing



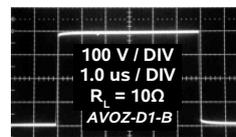
AV-156 Series

- ★ 5, 10 & 30 Amp models
- ★ Compliance voltage of 15, 25, & 30 Volts
- ★ Pulse widths from 10 us to 100 ms
- ★ Dual channel and offset options
- ★ For squib, detonator & component testing

Visit www.avtechpulse.com/current for more details

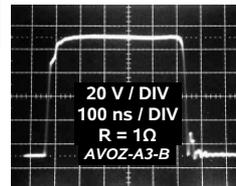
HIGH CURRENT

High Current Pulsed Voltage Drivers



AVOZ-D Series

- ★ 20, 40, 50, and 70 Amp models
- ★ Load voltages of 50,200,500 & 700 V
- ★ Pulse widths from 0.2 – 10 us
- ★ Drives multiple parallel 50 Ω cables or a single low impedance load

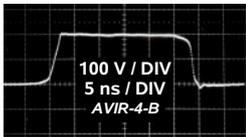


AVOZ-A & AVOZ-B Series

- ★ 2, 20, 50, 100, and 200 Amp models
- ★ Load voltages from 20 to 100 Volts
- ★ Pulsed width ranges of 0.2, 1.0, 2 & 5 us
- ★ AV-CLZ, 1 Ω output cables.

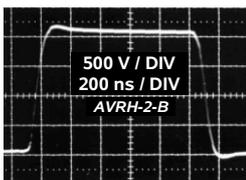
Visit www.avtechpulse.com/laser for more details

High Voltage Pulse Generators



AVIR and AVL Series

- ★ 200 Volts, 2 - 200 ns, 2 ns t_R
- ★ 320 Volts, 5 - 100 ns, 2 ns t_R
- ★ 450 Volts, 6 - 100 ns, 1 ns t_R
- ★ GPIB IEEE-488.2 control available



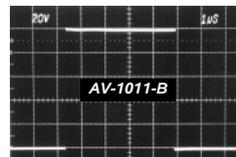
AVRH and AVR Series

- ★ 1000, 2000, and 3000 Volt models
- ★ Pulse widths from 0.2 to 5 us
- ★ Pulse repetition frequency to 1 kHz
- ★ See the AVR-3, -4, -5, 7 & -8 Series for 200 to 1000 V, 50 W, PW to 100 us and model AVRQ for 2000 V with variable t_R

Visit www.avtechpulse.com/medium for more details

HIGH VOLTAGE

50 & 100 Volt Lab Pulse Generators

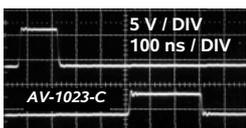


- ★ GPIB, RS232 & ethernet control
- ★ 100 Volt, 1 MHz models
- ★ 50 Volt, 10 MHz models
- ★ 2 ns and 10 ns rise times
- ★ Variable baseline option
- ★ Output currents to 8 Amps with accessory transformers



Visit www.avtechpulse.com/general for more details

General Purpose Lab Pulse/Delay Generators



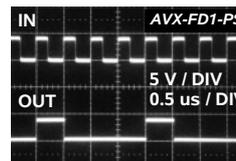
- ★ 7 models available
- ★ GPIB, RS232 or manual controls
- ★ Single and dual channel models
- ★ ± 10 Volt, TTL, ECL 50 MHz models
- ★ ± 5 Volt, 10 MHz models
- ★ Exceptionally low jitter
- ★ Variable rise, fall time option



Visit www.avtechpulse.com/general for more details

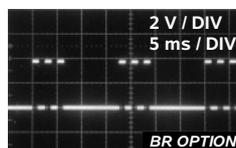
GENERAL PURPOSE

Frequency Dividers & Burst Generators



AVX-FD Series

- ★ 10, 100, 250 MHz frequency dividers
- ★ Divisor ratios up to 65535
- ★ TTL, ECL, or analog inputs
- ★ TTL or ECL outputs
- ★ See www.avtechpulse.com/divider



BR Option

- ★ Generates bursts of 1-500 pulses
- ★ Variable burst spacing
- ★ Variable pulse spacing
- ★ Optional on many Avtech pulsers
- ★ See www.avtechpulse.com/options/br/