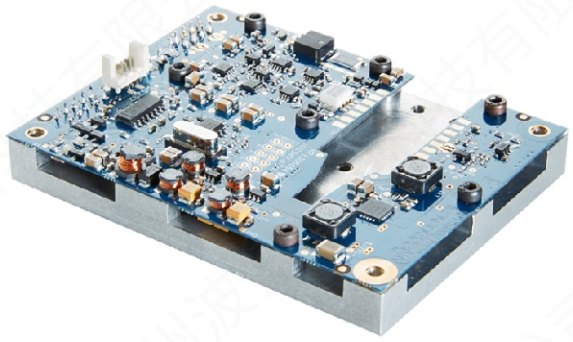
PicoLAS

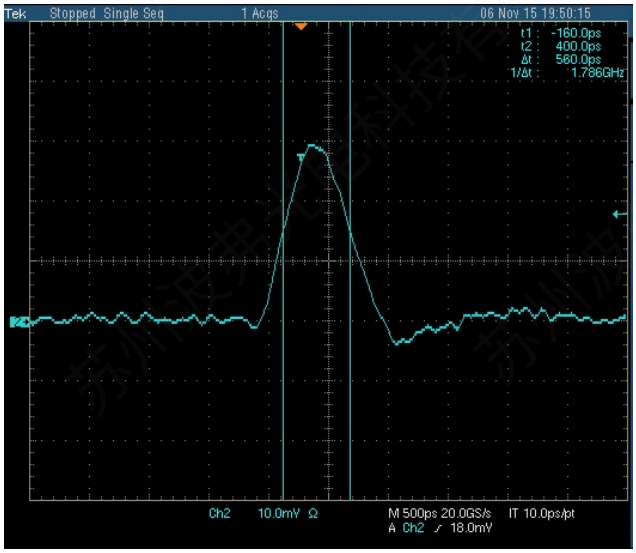
FOCUSSING POWER TO THE POINT

Rev. 1905

BFPS-VRHSP 02

Highspeed Seed Driver





- Pulse duration: < 500 ps .. 34 ns
- Output current: 0 .. 2 A[1]
- Repetition rate: 0 .. 20 MHz with dependance on pulse duration. Typical max. values: 20 MHz at 1 ns, 1 MHz at 34 ns
- Digital current and pulse duration adjustment
- Safety function for laser diode power
- TEC controller

Technical Data*

Output current	0 .. 2 A
Max. compliance voltage	Single laser diode
Current noise	< 3 %
Current overshoot	< 5 %
Trigger input	LVTTL 3.3 V
Current pulse width input	RS-232
Current setting input	RS-232
Current monitor	-14 A / V
TEC controller	1.2 A
TEC current	-1.2 .. 0 .. 1.2 A
TEC voltage	-2.3 .. 0 .. 2.3 V
TEC setpoint	Via RS-232
TEC stability	Up to 0.001 K
Laser Fire	500 ns TTL (retriggerable Monoflop, back facet monitor)
Supply voltage	5 V DC (laser voltage) 5 V DC (TEC voltage)
Power dissipation	Tbd
Dimensions in mm	65 x 85 x 15
Weight	110 g
Operating temperature	0 to +55 °C

*Measured with a fast recovery diode instead of a laser diode. Technical data is subject to change without further notice.

Product Description

The BFPS-VRHSP 02 is one of the worlds fastest driver for seed applications, DVD-Disk mastering, printing applications, etc.
With an output current from 0 to 2 A it delivers enough power to overdrive single mode diodes for short pulses.
The pulse duration spans from < 500 ps to 34 ns* is addressable via the trigger input signal.

Of course, there are protective features and the driver is baseplate cooled like all other drivers from PicoLAS.

- Innovative current regulation concept actively prevents laser diode from overshoots and overcurrent
- Overtemperature shutdown
- Enable/Disable input
- Driver status output
- Laser fire monitor
- Protection of the laser diode against reverse currents

Optional Accessories: PLCS-40
PLB-21