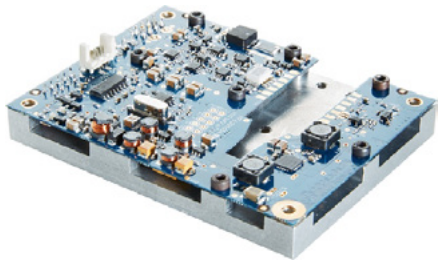
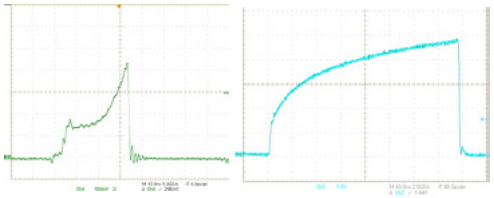
LASER COMPONENTS®

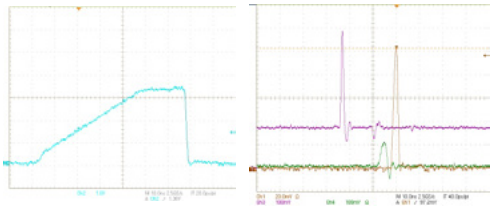
Rev.1905

# BFS-VRM 03 HP / LP

## Highspeed Seed Driver







- Output current: 0 .. 3 A[3]
- Baseplate cooling

HP version
- Analog modulation dc .. 400 MHz
- Pulse width: 1 ns .. cw

LP version
- Analog modulation dc .. 25 MHz
- Pulse width: 20 ns .. cw

## Technical Data[4]

| | |
|---|---|
| Output current | 0 .. 3 A pulse[3] or 0.5 A cw |
| Max. compliance voltage | Single laser diode |
| | |
| Current noise | < 3 % |
| Current overshoot | < 5 % |
| Analog modulation | < 400 MHz[1], 25 MHz [2] |
| Current settling time (full-scale) | < 15 ns |
| Current setting input | 0 .. 1000 mV (3 A/V) |
| Current monitor | 4.8 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 | 12 W |
| Dimensions in mm | 65 x 85 x 15 |
| Weight | 110 g |
| Operating temperature | 0 to +55 °C |

1 BFS-VRM 03 HP
2 BFS-VRM 03 LP
3 With duty cycles up to 1%. Typical 3 A, guaranteed 2.5 A.
4 Specifications measured with a fast recovery diode instead of a laser diode. Technical data is preliminary and subject to change without further notice.

## Product Description

The BFS-VRM 03 is one of the worlds fastest analog modulated driver for seed applications, DVD-Disk mastering, printing applications, etc. With an output current from zero to 3 A it delivers enough power to overdrive single mode diodes for short pulses.
The pulse widths span from 1 ns to cw is continuously addressable via the analog input signal. This wide span is world unique.
Of course there are protective features and the driver is base plate cooled like all other drivers from PicoLAS.

- Innovative current regulation concept actively prevents the laser diode from overshoots and over-current
- Protection against transients through regulated current rise time
- 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

/ Germany and Other Countries LASER COMPONENTS Germany GmbH Tel +49 8142 2864 - 0 info@lasercomponents.com www.lasercomponents.com
/ France LASER COMPONENTS S.A.S. Tel +33 1 39 59 52 25 info@lasercomponents.fr www.lasercomponents.fr
/ Nordic Countries LASER COMPONENTS Nordic AB Tel +46 31 703 71 73 info@lasercomponents.se www.lasercomponents.se



beyond borders

10/25 / V7 / MaH-IF / picolas/bfs-vrm-03-hp-lp-highspeed-seed-driver