

Distributor



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## Socketdriver RMC Laser Diode Driver with BF LD Socket



The Socketdriver RMC is a laser diode driver, that can be controlled through a digital electronic interface or the front panel. A customer owned laser diode or SLD (BF-package) can easily be plugged into an internal socket and the fiber pigtail connected with the front panel fiber adapter (standard is SC). The LSD<sup>P</sup>-version is used with LD having pump laser pinout, the LSD<sup>S</sup>-version is used with signal lasers.

The Socketdriver RMC can be easily controlled by commands through the serial interface. Command structure, such as (details in the manual):

```
set ch1 pow xxx
get ch1 vol L
```

The driver is DC powered (12 V), an additional (external) switching power supply for wall-plug operation is an available option (depends on country of use). Also other fiber adapters can be reviewed as an option.

control interface:

size:

weight:

air flow for cooling:

$I_{op}$  :

environmental conditions:

features (interface, commands)

USB

165 x 85 x 215 mm (WxHxD)

12 V DC, 2 A

bottom front side in, back side out

max 2 A (LD), max. 3 A (TEC)

non-condensing,  $T_{op}$  +5°C ... 50°C

operation of LD in ACC, APC mode, PVI-test

TEC setpoint -20° ... 60°C (set LD TEC)

Max Current Setpoint

set: LD power by  $I_{P-out}$  or current by  $I_{op}$  (ACC, APC)

current increments and max  $I_{op}$

max. TEC current max  $I_{TEC}$

temperature by thermistor value

read: LD operational current ( $I_{op}$ )

TEC current ( $I_{TEC}$ )

LD monitor current ( $I_{MPD}$ )

heatsink temperature by thermistor value ( $T_{MF}$ )

LD temperature by thermistor value ( $T_{LD}$ )

compliance voltage ( $V_{LD}$ ) and TEC voltage ( $V_{TEC}$ )

maximum compliance voltage:

setpoint resolution:

2.9 V

0.5°K (LD TEC), 0.5 mA ( $I_{op}$ ), ~1 mW ( $I_{P-out}$  or  $I_{MPD}$ )

0.5 mA min. current increment (PVI-test)

temperature stability (TEC setpoint):

current stability ( $I_{op}$ ):

modulation:

power stability ( $I_{MPD}$ ):

compliance voltage ( $V_{LD}$ ):

fiber termination:

fixture accepts:

0.1°K (@constant  $T_{MF}$  after 1 hour warm-up)

0.5% (@constant  $T_{MF}$  after 1 hour warm-up)

20 Hz minimum, rise/fall time max. 1  $\mu$ s

0.5% (@constant  $T_{MF}$  after 1 hour warm-up)

10 mV (@constant  $T_{MF}$  after 1 hour warm-up)

SC

butterfly-package laserdiodes (specify pinout)

