JENOPTIK

MORE LIGHT

JenLas® *D2.mini 3/8 W FC*

Compact & reliable medical and scientific applications with Jenoptik's fiber-coupled solid-state laser modules.

Applications

JenLas® *D2.mini* is a class 4 OEM laser source for

- Ophthalmology
- Dermatology
- Life-science instrumentation

Features

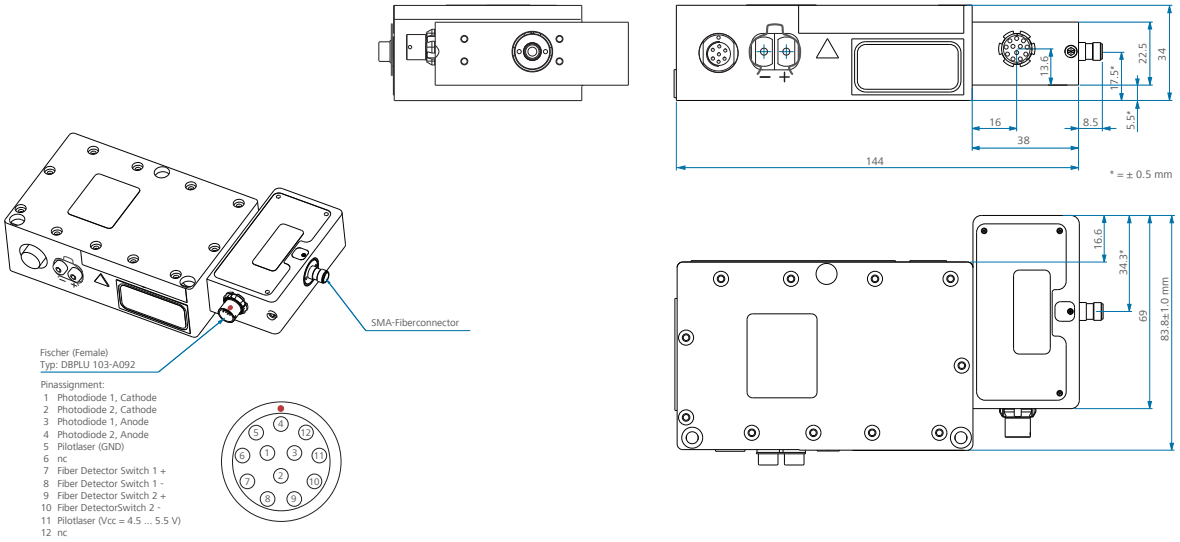
- Small form factor - low weight
- High laser output power stability
- Redundant power monitoring
- Redundant fiber connection monitoring
- Amplitude modulation up to 50 kHz
- Pilot beam
- Low cooling requirements
- Replaceable exit window

Diode-pumped thin-disk laser, frequency-doubled
JenLas® *D2.mini 3/8 W* | Specifications

General Properties	JenLas® *D2.mini 3 W FC*	JenLas® *D2.mini 8 W FC*
Laser parameters	see JenLas® *D2.mini* specification sheet	
Wavelength	532 nm	
Output power laser (cw)	3 W	8 W
Coupling efficiency	typ. ~ 90 % / guaranteed ≥ 85 % @ below stated fiber requirements	
Power stability (rms)	< 3 %	
Pulse duration, modulation via diode laser current	~ 1 ms to cw (amplitude modulation up to 50 kHz possible)	
Fiber Specifications		
Fiber connector	SMA-905	
Fiber eccentricity	≤ 10 µm	
Fiber requirements	suitable for ≥ 100 µm core diameter / NA ≥ 0,11	
Pilot laser	638 nm / 0 – 3 mW	
Protection window	yes, exchangeable by user	
Electrical Specifications		
Electrical input data	2 V / typ. 20 A (at pump diode) I_{max} = 24 A	2 V / typ. 34 A (at pump diode) I_{max} = 40 A
Connector fiber coupling unit	12 pin Fischer connector	
Connector laser cavity	9 pin Fischer connector	
Power monitor	redundant, 2 photodiodes	
Mechanical Specifications		
Dimensions (W x H x L)	153 mm x 80 mm x 24 mm	153 mm x 84 mm x 34 mm
Weight	0.5 kg	0.6 kg

Fiber coupling unit is not an accessory, has to be ordered with laser module. All specifications are measured with a standard fiber.

JenLas® *D2.mini 8 W FC*



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.

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JENOPTIK

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
EN 60 825-1: 2007

03/2020 | Specifications may change in compliance with our quality management system.