

hYbrite Laser-Diode Bar

State-of-the-Art Power and Brightness from a Single Bar

Laser Component



Specifications:

	Symbol	120M
Optical data (All Values Typical)		
CW-optical power	Pop	120W
Center wavelength	λ_c	976nm +/-3
Spectral width	$\Delta\lambda$	3nm
Temperature dependence of center wavelength	$\Delta\lambda_c/\Delta T$	0.3nm/°C
Fiber data		
Fiber core diameter		200 μ m
Fiber numerical aperture		0.22
Fiber connector		SMA-905
Electrical data		
Operating current	Iop	150A
Current ramp rate	Ir	<1A/s
Threshold current	Ith	8A
Operating voltage	Vop	2V
Slope efficiency	η	0.75W/A
Reverse voltage	Vrev	0V
Thermal conditions		
Inlet water temperature		20°C
Differential water pressure		30psi
Inlet water flow rate [1]		4 L/min
Chiller cooling capacity		>150W
Storage temperature (non-condensing)		-20 to 60°C
Other specifications		
MTTF lifetime [2]		5000hrs

Notes:

RoHS 2002/95/EC compliant

[1] Distilled water filtered to 5 μ m.

[2] End-of-life (EOL) \leq 80% of initial output power.

Features:

- Rugged, single-bar construction
- 120W (fiber coupled) CW output-power
- 3X improved thermal performance
- Scalable up to 1000 Watts
- Connectorized (SMA-905)
- Small size (135mm x 120mm x 69mm)

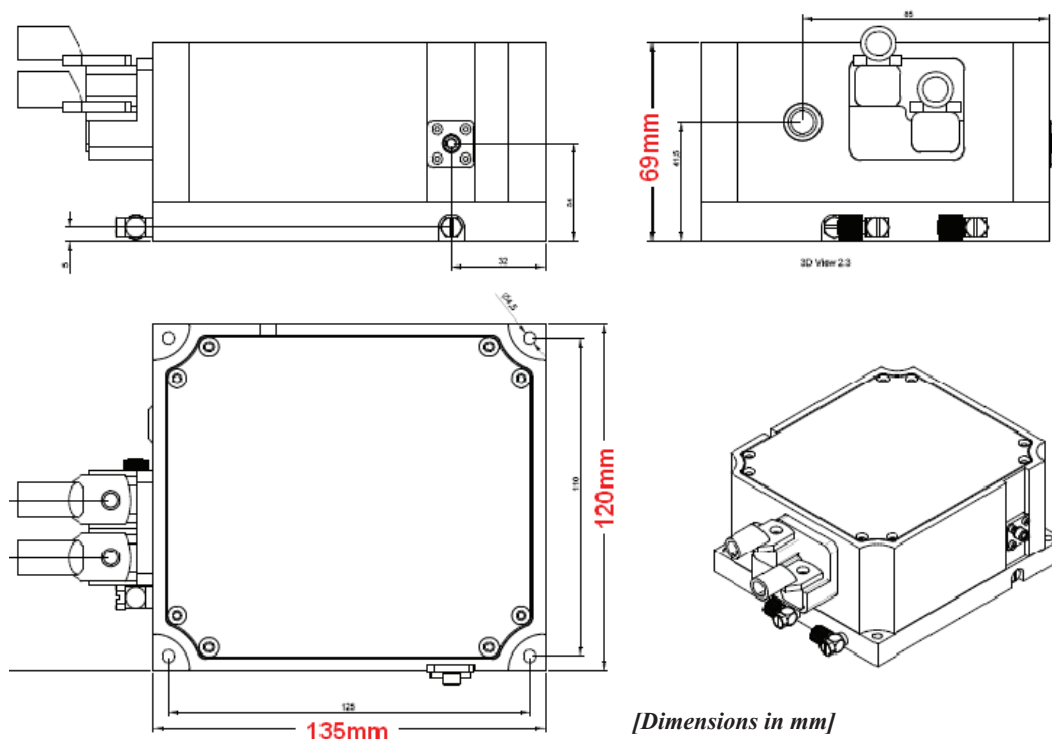
Applications:

- Solid-state & fiber laser pumping
- Direct-diode material-processing
- Medical laser applications

Options:

- Water cooling plate

Dimensions:



Important Notes:

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by B&W Tek, Inc. before they become applicable to any particular order or contract. In accordance with B&W Tek, Inc. policy of continuous improvement, specifications may change without notice.

Safety:

The laser light from this component is invisible and is harmful to the human eye. Avoid eye or skin exposure to direct or scattered laser light. Proper laser safety eyewear must be worn during operation.

This product is sold as a component. This product does not comply with 21CFR 1040.10 as administered by the Center for Devices and Radiological Health (CDRH). Purchaser acknowledges that their product(s) must comply with CDRH regulations before they are sold to a customer.

Because of the small size of the component, the Warning Labels and Aperture Label below are attached to the individual shipping container.

