

**SB1-946-35-0.1**

**Spec. #: SB1-21301**

**Microchip Laser**



**MAIN FEATURES**

- 946 nm
- < 2 ns
- > 35  $\mu$ J
- Single Longitudinal Mode
- All-In-One Miniature Design

**Technical Specifications**

Technical Specifications		
Output Wavelength	946	nm
Pulse Repetition Rate	0.1	kHz
Pulse energy	> 35	$\mu$ J
Pulse Width	< 2	ns
Peak Power	> 17	kW
Short Term Output Energy Instability (St.Dev. Over > 10000 samples)	< 3 %	
Long Term Output Power Instability (Power log over 24 hours)	< 5 %	
Beam Quality ( $M^2$ )	< 1.5	
Output Beam Diameter at Exit Aperture (1/e <sup>2</sup> ) without beam expander	< 0.3	mm
Beam Divergence (half angle) without beam expander	< 5	mrاد
Beam Ellipticity (axes ratio)	> 0.80	
Warm Up time after cold start	< 5	min
Power Consumption	< 20	W
Mechanical Package	SB1	
Operational Temperature Range	+10°C to +40°C	
Storage Temperature Range	-20°C to +60°C	

All information included in this document are subject to change without notice.

Updated data sheets can be provided on request.

For further details, please contact your local **Bright Microlaser** sales representative or visit our website at [www.brightmicrolaser.com](http://www.brightmicrolaser.com)

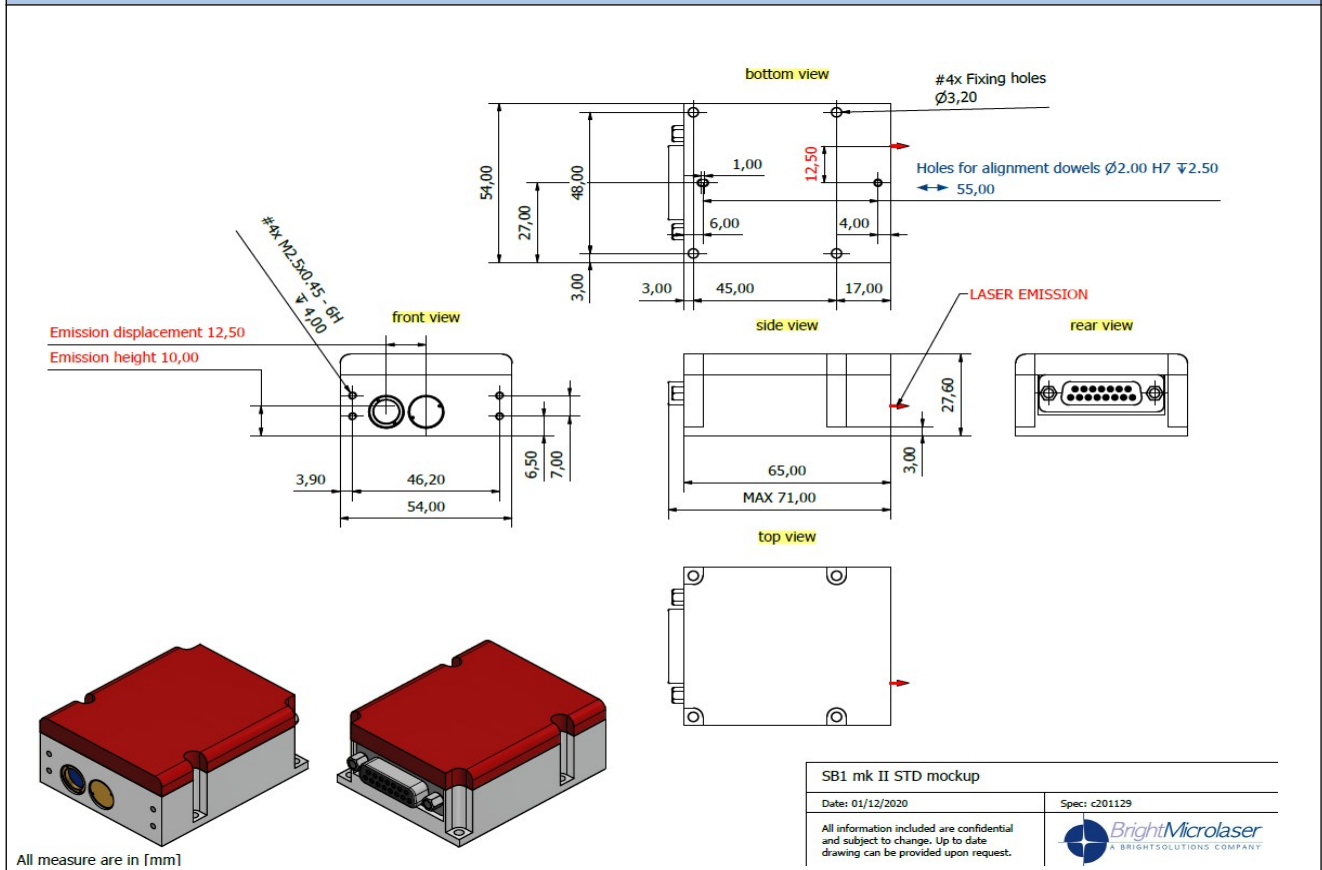
**Bright Microlaser Srl**

Via Artigiani, 21  
27010 Cura Carpignano - PV  
Italy

**Phone:** +39 0382 583094

**e-mail:** [info@brightmicrolaser.com](mailto:info@brightmicrolaser.com)

## Mechanical Drawings



### Options Available:

- Beam Expander and Collimator
- Heat-sink
- Development kit
- Quick start/evaluation kit

All information included in this document are subject to change without notice.

Updated data sheets can be provided on request.

For further details, please contact your local **Bright Microlaser** sales representative or visit our website at [www.brightmicrolaser.com](http://www.brightmicrolaser.com)

**Bright Microlaser Srl**  
Via Artigiani, 21  
27010 Cura Carpignano - PV  
Italy  
**Phone:** +39 0382 583094  
**e-mail:** [info@brightmicrolaser.com](mailto:info@brightmicrolaser.com)