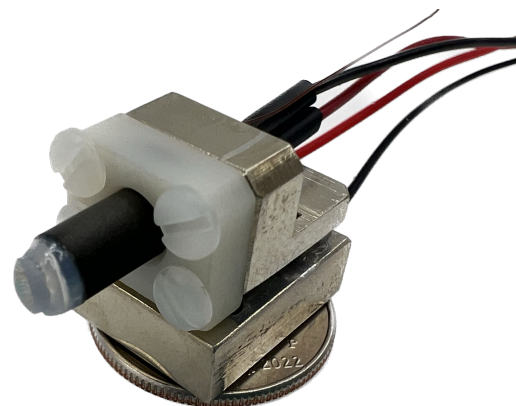


## TCA2 Temperature Controlled Assembly MicroGreen-TCA2

A diode-pumped solid-state laser sub-assembly with active temperature control

### Features:

- Small-size laser sub-assembly with deterministic response in wide ambient temperature range
- Improved boresighting with optional diverging lens
- Optional control board

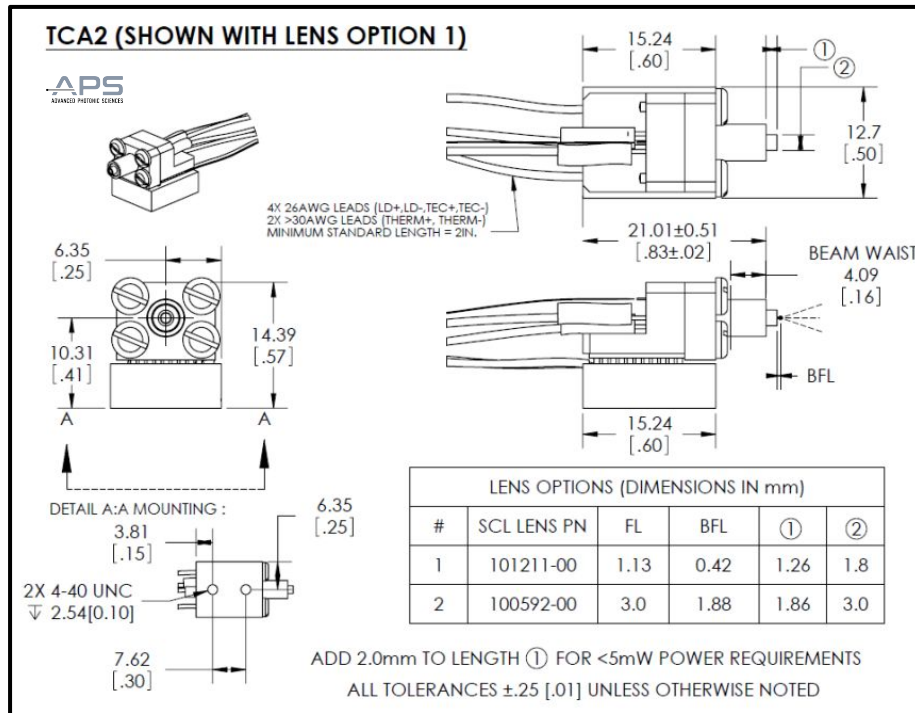


Optical Specifications <sup>1</sup>	MicroGreen TCA2 Series
Operating Mode	CW
Output Power <sup>2</sup> (mW)	1 - 50
Output Wavelength (nm)	532.2 +/- 0.5
Power Stability over 2 Hours	< 10%
Ambient Temperature Range (°C)	-20 to +50
Beam Characteristics (typ.)	M <sub>2</sub> < 1.2, Symmetric with Divergence ~ 7mrad
Residual 1064nm Leakage	< 0.5 %
Options <sup>4</sup>	Lens Control Board
<b>Electrical Input Requirements</b>	
Laser Diode	< 350mA, (1.8-2.2)V
TEC	< 2A, < 5V
Thermistor	10 kΩ, NTC
<b>Other Specifications</b>	
CDRH Classification	IIIB
Warm-up Time (minutes)	< 2
Storage Temperature (°C)	-40 to +80
Warranty <sup>5</sup> (Year)	1

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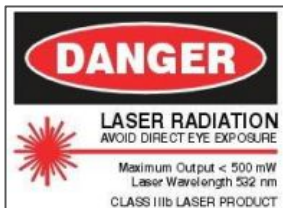


## Mechanical Specifications



## Notes

- Specifications and information herein are subject to change without notice.
- An APS Set Point (one temperature and drive current combination) is determined at factory.
- All MicroGreen Series lasers are inherently CDRH Class IIIb lasers. Combined with certain external optics, APS can determine an alternative APS Set Point corresponding to CDRH Class IIIa or Class II requirements.
- Please inquire about custom specifications such as output power, control board, wire length, termination connector, or other custom requirements.
- For assistance with integration issues, please contact our experienced applications team at [info@apslasers.com](mailto:info@apslasers.com)
- APS offers a limited warranty. Please refer to its' Warranty Statement / Return Policy for details.



This product is sold as an OEM laser component and does not fully comply with 21 CFR 1040 and IEC 60825-1 : 1993 as applicable.

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