

Features

- Up to 6W at 532 nm
- Collimated or fiber-coupled
- On-chip wavelength-stabilized BrightLock™ laser diodes
- Compact OEM driver and passive air-cooled solutions available
- Smart medical features (MEDICA package)

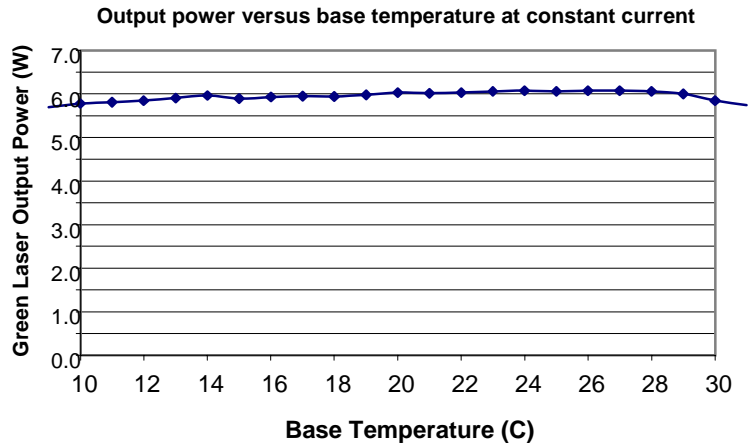


Applications

- Ophthalmology
- Dermatology
- Front and rear projection laser display
- Target illumination
- Non-lethal visual disruption

Benefits

- Compact and low cost
- High brightness
- Passively cooled operation
- High system efficiency
- Easy system integration

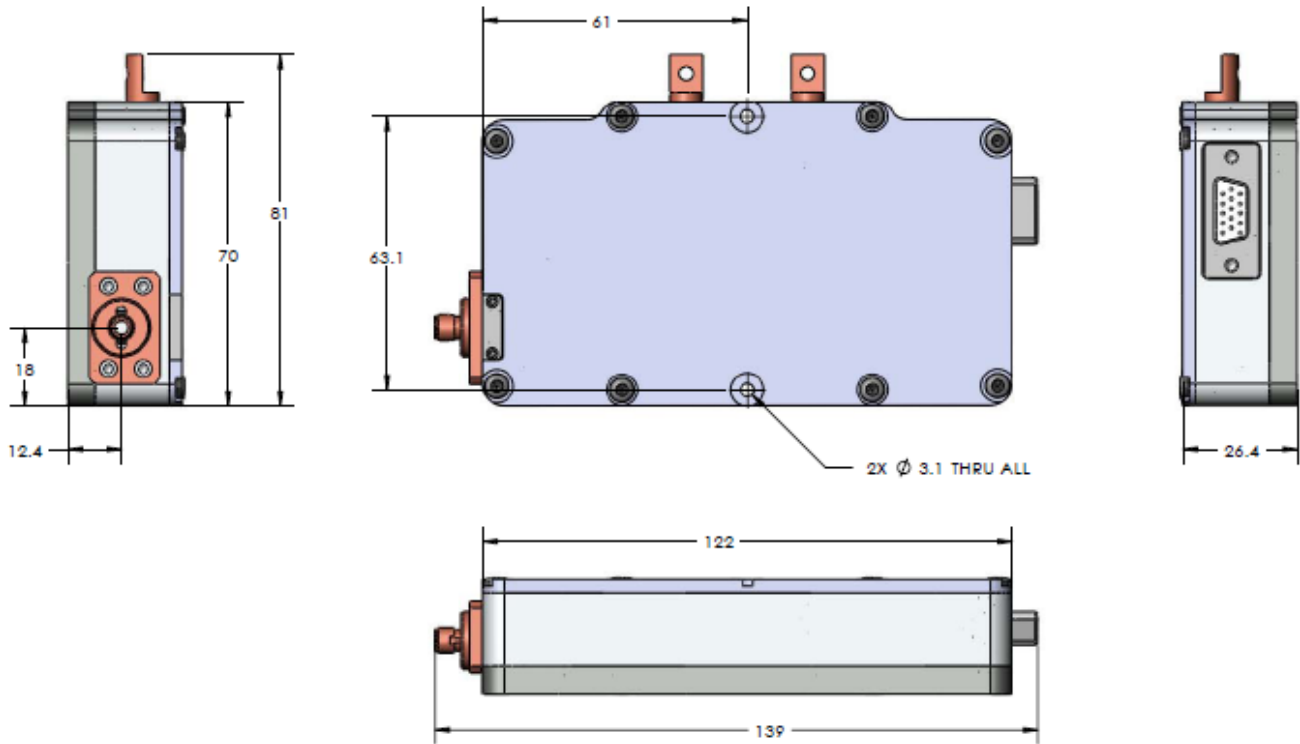


Parameter	Value			
Part Number	7605-0002	7605-0007	7605-M001/M002/M006	7605-M005/M003
CW output power	6 W	3 W	3 W	5 W
Max operating current	27 A (23A Typ)	25 A (20A Typ)	25 A (20A Typ)	27 A (23A Typ)
Max operating voltage	2 V	2 V	2 V	2 V
Center wavelength	532±0.5 nm	532±0.5 nm	532±0.5 nm	532±0.5 nm
Module dimensions	122 x 70 x 26.4 mm ³	122 x 70 x 26.4 mm ³	122 x 70 x 26.4 mm ³	122 x 70 x 26.4 mm ³
Base plate temperature	20~30°C	20~30°C	20~30°C	20~30°C
SHG temperature setting	45°C nominal	45°C nominal	45°C nominal	45°C nominal
Aiming beam power	>1 mW (option)	>1 mW (option)	>1 mW	>1 mW
Aiming beam wavelength	635 nm (option)	635 nm (option)	635 nm	635 nm
Storage temperature	-20~60°C	-20~60°C	-20~60°C	-20~60°C
Delivery fiber connector	NA	NA	SMA	SMA
Output beam diameter	< 5.0 mm	< 1.5 mm	400 μm/50 μm/50 μm	400 μm/ 100 μm
Output beam divergence	< 0.75 mrad	< 0.75 mrad	0.22NA/0.22NA/0.12NA	0.22 NA
Delivery fiber length	NA	NA	2 m	2 m
Optimal Pulsing (Option)	Available Option	Available Option	< 3msec rise time	< 3msec rise time

Warning: Class 4 Laser, Invisible Laser Radiation – Avoid Eye or Skin Exposure to Direct or Scattered Radiation.

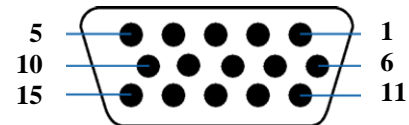
Laser Operations LLC

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Pin assignment

- 1 – Thermistor in base plate
- 2 – Thermistor in base plate
- 3 – Fiber sensor (Included in Medica Package)
- 4 – Fiber sensor (Included in Medica Package)
- 5 – Photodiode 1+ (Included in Medica Package)
- 6 – Photodiode 1- (Included in Medica Package)
- 7 – Photodiode 2+ (Optional)
- 8 – Photodiode 2- (Optional)
- 9 – N/A
- 10 – Thermistor in SHG
- 11 – Thermistor in SHG
- 12 – SHG TEC “+”
- 13 – SHG TEC “-”
- 14 – Aiming beam “+” (Included in Medica Package)
- 15 – Aiming beam “-” (Included in Medica Package)



BRIGHTNESS and POWER
Breaking Performance Barriers through Semiconductor Laser Innovation

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