

DYAD Beam Dual-Beam Laser Module

A fiber-coupled module featuring an operational beam a optical red aiming beam.
Well-suited for many medical applications as well as range-finding, illumination systems, and industrial marking. Internal thermistor and photodiode. Passive cooling required. Offered with SMA, ST or FC connectors. One meter fiber length standard, other lengths available.

Two Diodes

High-power infrared **808nm or 980nm** + Visible red aiming beam **635nm - 650nm**

Individually addressable

Utilize both the aiming and high powered beam together or separately.

Length (mm)	26.0
Width (mm)	16.7
Height (mm)	14.2
Multimode Power	5W
Fiber Max (µm)	200/220, 300/330

Laser Characteristics	Symbol	Typical	
Wavelength	λ	808nm	980nm
Output Power, CW	P_{op}	5W	5W
Operating Current	I_{op}	7.0A	7.0A
Slope Efficiency	$\eta_o = P_{op} / (I_{op} - I_{th})$	0.9	0.9
Threshold Current	I_{th}	0.8	0.6
Operating Voltage	V_{op}	2.0V	1.8V
635-650nm RED aiming beam	P_{op}	5mW	5mW



This datasheet is for general reference only. Specifications are subject to change without notice. Product subject to availability.

Safety Warning

Laser light emitted from any laser diode is invisible and may be harmful to the human eye. Avoid looking directly into the laser aperture when the device is in operation. The use of optical instruments with this product will increase eye hazard.

ESD Warning

The primary cause of diode failure is unexpected electrostatic discharge. To help prevent device failures, the user should always wear an ESD wrist strap, ground all applicable work surfaces and follow anti-static techniques when handling diode lasers.

Laser Operation Consideration

Operating the laser beyond the limits of the provided specifications may result in device failure or a safety hazard and will void warranty. Devices must be passively or actively cooled in accordance with the provided specifications. Failure to comply with heatsinking requirements may result in device failure.

Warranty

Due to the delicate nature of laser diodes, Sheumann offers a limited warranty for all products. Please refer to our Terms and Conditions for full details.

Compliance Notice

These products are intended solely as a component of an electronic product and are not certified in accordance with IEC 60825-1 or 21 CFR 1040.10/21 CFR 1040.11. These products are subject to Export Administration Regulations (EAR) and will require a Destination Control Statement or End User Agreement for each sales order.

