

DPSS Laser Gain Module

1064nm/75W

GENERAL DESCRIPTION

Laser gain module is the heart of DPSS (Diode-Pumped Solid-State) lasers or laser amplifiers. We provide DPSS laser gain modules based on CW or QCW diode pumping technology. Design flexibility allows for variety crystal materials, rod lengths, diameters, diode laser structures and operation modes to be widely used in both resonator and amplifier designs. Customized laser gain modules can be designed and provided on request.

FEATURES

- High pump power efficiency
- Uniform pumping distribution
- High power stability
- Compact size

SERVICE

Optionally, we offer the complete value chain:

We design and develop laser products which are optimized to meet the specific requirements of your application. In order to evaluate the performance of the lasers in the design phase we offer the rapid manufacture of prototypes and small series production.

APPLICATIONS

Solid state laser pumping



Specifications

Optical & Electrical

Parameter	Unit	Minimum	Typical	Maximum	Test Conditions
Output power	W	-	75	-	CW mode at 900mm cavity length
Center wavelength	nm	-	1064	-	-
Emitting Height	mm		45		-
Threshold current	А	-	6	-	CW
Operating current	А	16	18	20	CW mode at 900mm cavity length
Forward voltage	V	-	27	30	Output Power=75W

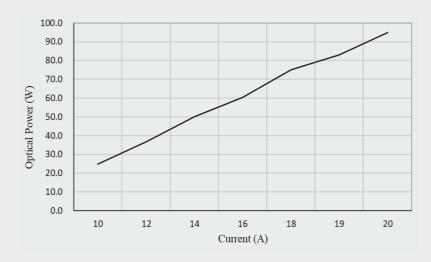
Environmental

Parameter	Unit	Minimum	Typical	Maximum	Test Conditions
Water Cooling Temp.	°C	22	25	28	Output Power=50W
Flow Rate	L/Min.	3	4.5	6	Output Power=50W
Water Pressure	Мра	0.3	-	0.6	Output Power=50W
Storage temperature range	°C	5	-	50	-

Physical

Parameter	Unit	Typical	Test Conditions
Nd:YAG Rod Size	mm	Ø3x78	-
Weight	kg	1.2	-

Optical power vs current

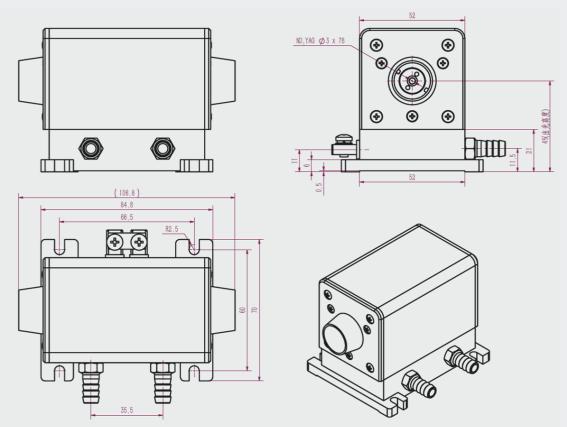


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Dimensions

Unit: mm



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