

NUBM08 Laser Diode Melting Iron



AI Overview

The Nichia NUBM08 is a high-power 455nm blue laser diode capable of up to 6W CW output, requiring careful thermal management and safe soldering practices.

Key Specifications
 The NUBM08 is a blue laser diode operating at approximately 455nm with a continuous wave (CW) output of up to 6000mW (6W). It is typically packaged in a TO-5 module with a compact 12mm x 30mm solid copper body for superior heat dissipation, often assembled with high-quality thermal conductive paste. The diode can be used for laser engraving, cutting, pointing, and medical/lab applications, offering precision and efficiency in industrial and laboratory settings.

Lens and Beam Options
 Stock G-Ball Lens: Fixed focus, loosely collimated, mainly for laser lighting applications.
 G2 Lens (G-Ball removed): Single element, optimized for close-range cutting and engraving.
 G8 Lens (G-Ball removed): Single element, versatile for cutting, engraving, and medium-range pointing.

Thermal Management
 The diode's solid copper module and thermal paste are critical for heat dissipation. Operating at higher temperatures or exceeding recommended optical power can shorten the diode's lifetime. Proper heat sinking and temperature monitoring are essential to maintain performance and longevity.

Soldering and Electrical Precautions
 When using a melting iron or soldering the diode: Use a leak-free soldering iron to prevent electrical surges. Ensure the workbench, tools, and circuits are properly grounded. Avoid static discharge and surge currents, which can damage the LD-Bank. Soldering should be done carefully to avoid mechanical stress on the diode package, which can deform the plate or damage the glass.

Safety Considerations
 The NUBM08 emits a collimated, high-density laser beam. Direct or reflected exposure can cause severe eye or skin injury. Always wear appropriate laser safety glasses and avoid reflective surfaces near the diode. Reflected or stray light can also degrade the reliability of the diode.

Recommended Operation
 Use Automatic Power Control (APC) to maintain stable opt...

Article Content

NUBM08 DIY module adjustable focus laser Aluminum

Description NUBM08 red green blue high power DIY module hardware components / adjustable focus laser 40*40mm aluminum heat sink

New NUBM08 38W 455nm 450-460nm Blue Laser

Nichia NUBM08 38w Laser Diode LD Bank Brand New. Wavelength 448nm-462nm 455nm typical. Operating Temp. 0-70 Centi-degree. Wavelength Range 450

NUBM08 Nichia 455nm 38w Laser array

BeamQ Laser NUBM08 Nichia 455nm 38w Laser array - NUBM08 Nichia 455nm 38w Laser Array. Specs in PDF.Absolute Maximum Ratings:Forward

NUBM08 450nm 4.75W High Power Blue Laser Diode: My Real-World ...

The NUBM series offers powerful blue laser technology ideal for precision applications like wood engraving, providing enhanced accuracy and minimal scorch marks due to efficient energy delivery

LD | NICHIA CORPORATION

The "QuaLas™ RGB" laser product, featuring RGB LD chips densely mounted in one small package, has been installed in many projectors, making them more compact, with higher image quality and

Advice on making driver for Nubm08 diode. | Laser Pointer Forums ...

I have not made a laser at all so I am new to this. But I am willing to learn and I am looking for advice on making the driver for my diode. I ordered a nubm08 455nm 4.75W blue diode. So if

Nichia NUBM08 450nm 4.75W High Power Blue Laser Diode LD w/

Feature highlights: Nichia NUBM08 450nm 4.75W High Power Blue Laser Diode LD with lens and Tin-pin, featuring a long cap with lens and two welded long pins. It delivers cw output of 4.75w-5.5w and

NUBM08 450nm 4.75W High Power Blue Laser Diode LD w/ Lens/Tin

The blog explores real-world application of the LD diode model NUBM08 for precision wood engraving, emphasizing proper cooling, electrical safety, optimal pulse management, and mechanical

Nichia NUBM08 flat cap 450nm 5W Laser diode single tube LD move ...

Storage temperature: -40 ~ +85 °C Note: This is a NUBM08 laser diode which have removed collimator lens and package with flat window cap. This component is sensitive to static electricity. Do not touch

Replacing damaged LD with NUBM08 laser diode | TECH R& D

In this video i showed instead of buying a new module for damaged laser we can simply change the laser and here i used NUBM08 laser diode which 4.75w optical power and pulsed power is around 7w.

Nichia NUBM08 Laser Module 455nm 38w Blue Laser

BeamQ Laser Nichia NUBM08 Laser Module 455nm 38w Blue Laser Diode LD 8*4.75w - High power multiple laser diode (LD) bank 8 collimator

4000mW+ NUBM08 DIY Laser

Some clips I threw together after completing my NUBM08 build. NUBM08 decanned w/ G8 Lens rival Laser Stainless Steel Host w/ extended copper heat sink & b...

NICHIA NUBM08 Laser Diode

The NUBM08 Nichia 38W-8 4.75W laser diode is a high-quality, high-power diode that is suitable for various applications where high power is required. It is energy-efficient, durable, and can last for

NUBM08 Nichia 455nm 38w Laser array

NUBM08 Nichia 455nm 38w Laser Array. Specs in PDF. Absolute Maximum Ratings: Forward Current:3.0A Allowable Reverse Current: 85mA

NICHIA 4.75W/5W 450/455nm Blue light laser diode

Add a radiator to prevent the laser diode in the work temperature rise too high, so as to achieve a longer life. 6. Working at higher temperature will increase threshold

Use of 450-808 nm diode lasers for efficient energy ...

The additive manufacturing process selective laser melting (SLM) uses a powder bed fusion approach to fully melt layers of powdered metal and create 3D components. Current SLM

NUBM08 455nm 450nm 36W Blu-ray Laser Diode For Stage / Carving

Description NUBM08 455nm 450nm 36W Blu-ray Laser Diode For Stage / Carving This price is the price of a group, that is, the price of eight single-tube laser tubes. Product profile: This model is mainly

4500mW (4,5W) Nichia NUBM08 Laserdiode 445nm

9mm NUBM08 445nm Laserdiode Forward Current ($T_c=25^{\circ}\text{C}$) 3.5 A Allowable Reverse Current ($T_c=25^{\circ}\text{C}$) 85mA Storage Temperature $-40\sim 85^{\circ}\text{C}$ Operating

NEW NICHIA NUBM08 4.75W 445nm 450nm Multi-LD Lens/Blue Laser Diode

Find many great new & used options and get the best deals for NEW NICHIA NUBM08 4.75W 445nm 450nm Multi-LD Lens/Blue Laser Diode/TIN-PIN at the best online prices at eBay!

NICHIA 4.75W/5W 450/455nm Blue light laser diode

Product name: Blue light laser diode. Origin: Japan. Output power: CW=4.75W. Pulse power: single >9W. Typical wavelength: 455nm. Working current: 3.0A

Mastering the NUBM08 0E Laser Driver: A Comprehensive

The NUBM08 0E is designed with a low output impedance to drive laser diodes quickly, but the laser diode's own capacitance limits the rise time of the optical signal. When setting up a high-speed link,

NUBM08 LD 450nm 455nm 4.35W 4.75W Blue Laser Diode for Laser

Feature highlights: NUBM08 blue laser diode delivers 4.75W power at 455nm wavelength, ideal for laser show applications. It features a through-hole package type and is designed for high performance in

Pulsing NICHIA's NUBM08 laser diode | TECH R& D

Hello everyone, in this video i have showed how i pulsed my NICHIA NUBM08 laser diode and its power consumption in CW mode & in Pulsed mode ponents used:-...

NICHIA NUBM08 Blue 450nm 38W/8*4.75W Laser Diode LD Bank

NICHIA NUBM08 Blue 450nm 38W/8*4.75W Laser Diode LD Bank With PCB Board \$199.00 9961 in stock Add to cart Compare Add to wishlist

Testing NUBM08 Laser Diode

Testing NUBM08 Laser Diode behind a macro lens up to maximum power. NUBM08 - s.click.aliexpress /e/_AkLENj *

NUBM08 Test Cut

156 Share 6.2K views 5 years ago First test cut with NUBM08 Laser Diode in 3mm poplar plywood NUBM08 - s.click.aliexpress /e/_Al6t3U *

NICHIA NUBM08 Blue 450nm 38W/8*4.75W Laser Diode LD Bank

NICHIA NUBM08 Blue 450nm 38W/8*4.75W Laser Diode LD Bank With PCB Board \$199.00 Add to cart SKU: 2255800818604263 Category: 405-490nm Diode Description

Brand New High-Power Nichia Blue Laser Diode NUBM08 / NUBM0E

Brand New High-Power Nichia Blue Laser Diode NUBM08 / NUBM0E. You can find all kinds of lasers and related products from our company.

LD Driver for NUBM05 NUBM08 NUBM** Blue Diode

LD Driver for NUBM05 NUBM08 NUBM** Blue Diode Driver Board 24V Boost Driver
This circuit uses a boost circuit, the input is a 24V universal power supply, which

NUBM08 Datasheet

The NUBM08 Datasheet is an essential document for anyone working with or interested in high-power blue laser diodes. It provides comprehensive technical specifications, performance

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://estlascleaning.co.za>

Email: info@estlascleaning.co.za

Phone: +27 63 214 8579

Address: 22 Oxford Road, Parktown, Johannesburg, 2193, South Africa

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