

Complete List of Laser Diode Sealing Ring Models



Article Overview

Laser diode sealing rings are available in a variety of sizes, materials, and package types, including TO-5, TO-8, TO-18, TO-39, and TO-46, with options for high-temperature and OEM-specific applications.

Common Sealing Ring Models and Sizes

1. Standard TO-Package Sealing Rings

- TO-5, TO-8, TO-18, TO-39, TO-46: These are widely used glass-to-metal seal packages for laser diodes, often with window glass caps. Variants include matched type and compression type seals depending on the application .
- Industrial Standard 5.6 mm Diameter: Common for optical pickups and general laser diode applications .
- 2. Material and Temperature Variants
- High-Temperature Sealing Rings: Designed for laser welding and high-power diode applications, ensuring stability under thermal stress .
- Premium O-Ring Seals: Used for protective windows in fiber laser heads, available in sizes such as 20×3 mm and 18×2 mm .
- 3. Manufacturer-Specific Models
- Shanghai Shockoe Automation Technology: Offers laser seal rings for Den Ospri, Au3tech, and other hand welding fiber laser heads, including protective lens O-rings .
- DMK Laser Welding: Provides OEM-fit sealing rings with customization options for high-temperature and specialized laser applications .
- Shinko Electric Industries: Supplies glass-to-metal seal packages with various stems and caps, including TO-5, 8, 18, 39, and 46, supporting both matched and compress...

Article Content

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Hermetic Sealing Systems

Browse AMADA WELD TECH's product selection of hermetic sealing system and seam sealing and

Laser Rubber Seal O-Ring Sealing Ring for Cutting Heads

The sealing ring is installed in the drawer of the protective lens. Through an interference fit with the lower protective lens, it seals the

2026 Laser sealing ring

China Laser sealing ring, Laser Seal Ring for Den Ospri Au3tech Hand Welding Fiber Laser Head Protective Lens Laser Seal O

Bodor Laser Sealing Ring: A Deep Dive into Performance ...

The Bodor laser sealing ring ensures optimal laser performance by maintaining airtight sealing, preventing dust contamination, and

Laser Diodes: Ø3.8 mm, TO-46, Ø5.6 mm, Ø9 mm, and Ø9.5

Clicking the "Choose Item" drop-down opens a list containing all of the in-stock lasers around the desired center wavelength. LIV and

Raytools Original Sealing Ring — PTFE, Spring-Energized (10 Sizes)

Original Raytools spring-energized PTFE sealing ring for fiber laser heads. Precise fit, low friction, long life. Fast global shipping.

Product Catalog | Freudenberg FST

Freudenberg Sealing Technologies (FST) sets the bar for high-quality and innovative sealing solutions. Our product catalog includes

Laser Sealing Ring: The Ultimate Guide to Performance, Fit, and Long ...

A laser sealing ring is a critical precision component that maintains optical integrity by preventing environmental contamination,

48 Laser Diode Manufacturers in 2026

This section provides an overview for laser diodes as well as their applications and principles. Also, please take a look at the list of

Understanding Laser Lens Sealing Ring: Standards, Properties, and ...

A laser lens sealing ring is a critical component in optical systems, ensuring a secure, contamination-free interface between the laser

Advances in High-Power Laser Diode Packaging

1. Introduction Rapid evolution of semiconductor laser technology and its declining cost during the last decades have made the

Laser Sealing Ring

Kirin WSX AoSen Laser Sealing Ring Imported PTFE material, Stainless steel Spring, Good sealing, smooth surface, low friction

Recent Issues in Laser Diode Packaging for High Reliability ...

High Power Laser utilizes bulk optics to collimate laser diode output in both axes, bulk grating for wavelength stabilization, and

Laser Hermetic Sealing Electronics

Hermetic sealing and packaging of electronic components services. Fast quoting and turn-around. ISO 13485:2016 compliant for

Schematic of the laser diode assembly. (a) Complete assembly in ...

The performance achieved with multiple diode models addresses the scarcity of commercial red laser diodes below 633 nm, which is

Lamp seals 6

1) is created by soldering a circular Invar band around the end of a quartz tube. The lamp can be designed with a small dead space

Sealing Ring - SCH LASER: Laser Spare Parts and Consumables

Sealing Ring for Bodor Outer Dia. 27.8 Inner Dia. 21.5 Outer Edge 3.0 Inter Edge 1.8 mm Sealing Ring

Ring Lasers - spatial hole burning, single-frequency operation ...

Ring lasers are lasers with a ring resonator rather than a linear resonator. This choice has some implications e.g. concerning spatial

Can sealing (hermetic sealing of laser diode)

Feature of can seal welding In can sealing, metal cap and header are sandwiched by upper and lower electrode, and the entire

All the Top Laser Diode Brands & Wavelengths (SHOP

Laser diodes are semiconductor devices which convert an injected electrical power into an output of concentrated light at a specific

DMK Laser Protective Lens Seals, Laser Seal Ring for WSX ...

□□This laser protective lens seals size is 20.5*16*2.4, we also have many other specifications, complete specifications, widely used in a

High-Quality Laser Protective Lens Sealing Ring | Compatible with Laser ...

Shop for high-quality laser protective lens sealing rings made from durable PTFE and stainless steel materials, ensuring excellent

Laser sealing of organic light-emitting diode using low melting ...

Glass frit encapsulation for laser-base sealing of the complex interiors results challenges for the electronics

Laser Seam Sealing of Electronic and Opto-electronic Packages

Laser equipment also facilitates equipment multi-tasking, since the laser can be used for both seam sealing and welding of internal

Laser Diode Selector

The laser diode selector allows you to specify the wavelength, power and package and download

Laser Seal Welding: The Essential Guide to Choosing the Right PTFE ...

This article explains the role of laser seal welding components, particularly PTFE sealing rings, in protecting laser cutting heads. It

Laser Cutting Head Laser Welding Gun Protective Lens

Crafted from high-grade stainless steel, this seal ring is designed to withstand the extreme conditions of

Laser Diodes

A laser diode generates some heat at the junction points with a long time of electric current like general semiconductors. As a result,

Protective lens Sealing ring for Fiber Laser cutting ...

The sealing ring is installed in the drawer of the protective lens. Through interference fit with the lower protective lens, the protective

Laser Diode Selection Guide (ALL MANUFACTURERS)

We try to help our community of laser scientists & engineers find the best products for their projects by hosting a free Open-Index

Laser Hermetic Sealing Techniques Guide

This document provides guidance on laser hermetic sealing of precision components and sensors. It discusses various sealing

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Find the right laser diode with just a few clicks. Just select your specifications in the search mask and you

Laser Diode Selection Guide (ALL MANUFACTURERS)

This allows users to compare laser diodes from all manufacturers and find their best options.

Laser Diodes by Wavelength

The Laser Diode Selection Guide provides a comprehensive list of all laser diodes available from stock,

Laser Diode Tutorial

Laser Diode Tutorial The purpose of this laser diode tutorial is to provide the information necessary to create a long lifetime, stable

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