

To56 in the optical module



Overview

6 mm base with TO18 but adds a fourth pin for monitoring photodiode (MPD) current and uses a lead configuration optimized for 10G bandwidth. The package is the standard choice for 10G SFP+ transceivers and is widely specified in CATV and 10G datacom applications. 6 mm (TO-56) or 9 mm (TO-9) packages. With Newport's industry renowned laser mounts, laser diode drivers and temperature controllers you can easily build a reliable and low noise laser system with maximum output power and wavelength. A TO (transistor outline) header is a metal package with glass-to-metal sealed electrical leads and an optical aperture for a lens or window. Originally developed for transistors, TO headers are now the dominant packaging format for single-mode and multimode laser diodes, photodetectors, and VCSELs. The CWDM (Aspherical Lens) TO LD laser diodes are uncooled multi-quantum-well DFB (Distributed Feedback) laser diodes for 2. 5Gbps and 10Gbps transmission at 1310/1490/1550nm. Among these. Optical module of dual-mode optical network unit The model of said LD is specially: ML720AG11S or ML720AA47S or 131D-02J-LCT11-07. hese lasers must operate with very low or even zero failure rates. Lumentum has applied their experience making and qualifying high-reliability semiconductor lasers to 8 nm diode lasers, which have field-demonstrated h to the. Searched Keyword: TO56.

Article Content

Mar 25, 2026

400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

Jan 30, 2026

1310nm DFB Laser TO56 InGaAsP DFB DIODES Module

BeamQ Laser 1310nm DFB Laser TO56 InGaAsP DFB DIODES Module # ML720AA47S-23 - ML720AA47S 1310nm 5mw TO56 InGaAsP DFB LASER DIODES with Narrow Line Width.

Nov 28, 2025

OPTICAL DEVICES

With the increase in communication traffic, optical devices that support mobile base station networks are also required to operate at higher speeds, over a wider temperature range, and have higher

Mar 26, 2026

To56 Laser Diode in Action: Real-World Performance of the

The To56 laser diode offers exceptional beam stability, longevity, and ease of integration thanks to its robust packaging and thermal management features, making it ideal for demanding optical

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2835 Indoor Lighting Ceiling Lamp Module Lens Diameter 160mm 56

2835 Indoor Lighting Ceiling Lamp Module Lens Diameter 160mm 56-in-1 LED Optical Lens Foshan China

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AAOI Applied Optoelectronics, Inc.

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Aug 11, 2025

TO18, TO46, TO56, TO60: Which Laser Diode Header Should You Use?

TO56 shares the 5.6 mm base with TO18 but adds a fourth pin for monitoring photodiode (MPD) current and uses a lead configuration optimized for 10G bandwidth. The package is the standard choice for

Dec 17, 2025

High Power 976 nm Spectrum Stabilized Multi-Mode Pump Laser

Wavelength Stabilized TO-56 Lasers RPMC Lasers Inc.'s proprietary single-mode wavelength stabilized laser features high output power with ultra-narrow spectral bandwidth and a diffraction limited output

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TO-Can-56 and Guts Package

TO-56 and GUTS Package Our proprietary single-mode wavelength stabilized laser features a TO-56 and Guts Package with high output power and ultra-narrow

Feb 26, 2026

Over 20 Million 400G & 800G Datacom Optical Module

BOSTON (January 7, 2025) - Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest

Mar 20, 2026

Microsoft PowerPoint

Optical Specifications Single spatial mode (TEM00) output Optical beam diameter: 0.5 - 1.0 mm Optical beam aspect ratio: 1:1.5 MAX

Apr 08, 2026

OSRAM Metal Can TO56, SPL TL90AT03

ams OSRAM bietet eine große Auswahl von Kantenemitter-Laserdioden im Nah-Infrarotbereich (NIR) für Kurzpuls- und CW-Betrieb mit hoher Leistung in speziellen Anwendungsbereichen.

Jan 21, 2026

Laser Diode, TO-56 and TO-9 Package | Laser Diode

Each individual laser diode is tested and characterized, and guaranteed to operate, prior to shipment, by the renowned laser diode manufactures. The bare laser

Dec 17, 2025

OFC 2026 Special: Arista Leads XPO Launch as Three

Discover the major industry shift at OFC 2026 as Arista Networks and global leaders unveil the XPO MSA, Open CPX, and OCI MSA to solve AI data

Dec 22, 2025

2W Peak Power 855 nm Multimode TO-56 Packaged Diode Laser

Lumentum is the worldwide leader in telecommunications-grade diode lasers used in the most demanding applications such as undersea, space, and high-data-rate systems. These lasers must

Dec 27, 2025

1510nm Laser diode TO56 package LD for 2.5Gbps optical ...

1510nm Laser diode TO56 package LD for 2.5Gbps optical telecommunication The TO-56 packaged laser diode comes standard with a circularized and collimated output beam, ESD protection.Lasing

May 20, 2026

Laser Diode, TO-56 and TO-9 Package | Laser Diode

Newport's Fabry-Perot TO-Can laser diode components are designed for easy integration into any system. A variety of CW and/or pulsed models are available.

Jan 23, 2026

TO56 Datasheet (PDF)

Description: Green Laser Diode in TO56 Package. Manufacturer: OSRAM GmbH. 12 Results. Part #: PLT5520-B1-2-3. Datasheet: 408Kb/9P. Manufacturer: OSRAM GmbH.

Oct 29, 2025

1270nm~1610nm CWDM TO56 Aspherical Le-DFB laser | SLED

The laser diodes are packaged in a standard TO56 coaxial package with a photodiode for optical power monitor. Among these laser diodes, four products at 1270nm, 1290nm, 1310nm and 1330nm are

Jan 01, 2026

LightCounting :: Scale-up networks in AI Clusters is a

A surge in AI development created a new wave in demand for optical connectivity in 2023-2025 and it will sustain the market's growth through 2030. The Figure below

Jun 17, 2026

1550nm TO56 Coaxial package with photodiode for optical test and ...

1550nm TO56 Coaxial package with photodiode for optical test and measurement
The laser is hermetically sealed in a 5.6mm package that offers robust environmental survival capability for

Sep 29, 2025

Chinese Funds Lift Investment in Optical Module Stocks Amid AI

Zhongji Innolight, a core investment target among the optical module concept stocks, has become the top stock heavily held by public funds, while Eoptolink Technology and Dongshan

May 16, 2026

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Sep 06, 2025

Broadcom Sian3 and Sian2M: 200G/lane optical

Analyzing Broadcom's Sian3 and Sian2M 200G/lane DSP technologies. Sian3 (3nm/SMF) and Sian2M (5nm/MMF) support 800G and 1.6T

Jul 29, 2025

LightOptics® Arista QSFP-200G-SR4 Compatible 200GBASE-SR4

Arista QSFP-200G-SR4 Compatible 200GbE SR4 QSFP56 PAM4 850nm 100m MPO/MTP-12 UPC Optical Transceiver Module- Best price and get specialized service.

Aug 25, 2025

GF Overseas Electronics & Communications ☑️ Zhen Ding 4Q25

On the earnings call, management expressed strong confidence in AI-driven growth, targeting 6–7x revenue growth in optical modules and AI server PCB businesses. In addition,

Mar 03, 2026

An automatic defect detection method for TO56 ...

In this study, an automatic three-stage defect detection method is proposed for the most widely used semiconductor laser TO56. The key defect detection tasks of TO56 include the sintering

Oct 27, 2025

2W Peak Power 855 nm Multimode TO-56 Packaged Diode Laser

2W Peak Power 855 nm Multimode TO-56 Packaged Diode Laser 22045498 Key Features 2.4 W peak power with 50% duty cycle

May 05, 2026

Optical module design resources | TI

View the TI Optical module block diagram, product recommendations, reference designs and start designing.

Contact Us

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