

## NEL Optical Module



### Overview

The NEL NLK1551SSC directly-modulated laser (DML) is a cost-effective solution for 10 Gb/s digital transmission of up to 50 km using traditional intra-city fiber links. NEL, a leading supplier of coherent Digital Signal Processor (DSP) solutions to system and module manufacturers worldwide, provides key components for 100G-and-beyond coherent transceivers, ExaSPEED Family (DSP chips for optical communication), Photonics of NTT Innovative Devices. The package contains a high-speed DFB laser chip, thermoelectric cooler, thermistor, optical isolator, and a rear-facet monitor. 2X1 optical rotator and combiner : Integrate polarization rotator and PBC into one chip using highly reliable Silica-on-Si PLC technology. Available wavelength range between 1260 nm and 2340 nm. NEL offers a vast array of products in the information. A driver integrated modulator module for digital coherent optical communication using an InP modulator chip featuring high speed, low loss, and low drive voltage. Supports modulation speeds up to 140Gbaud based on OIF-HB-CDM-02. NEL is the pioneer and market leader of 50GHz Athermal AWG which is achieved high performance by optimized design and precise fabrication.



## Article Content

Clock solution for Epson VG3225VFN crystal oscillator NTT (NEL ...

NTT's coherent optical module leads the industry with its excellent transmission performance, while Epson's VG3225VFN 391.77MHz voltage controlled crystal oscillator, with its ultra-low jitter, high

Optical Transceivers / SFP Modules - High-Performance Compatible

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

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

The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

10Gbps DML DFB Laser, NEL (NTT) NLK1551SSC, 1550nm, Direct Modulated ...

The NEL NLK1551SSC directly-modulated laser (DML) is a cost-effective solution for 10 Gb/s digital transmission of up to 50 km using traditional intra-city fiber links. The package contains a high-speed

NTT Electronics Corporation

NEL has been developing and commercializing optical communications devices since 1995. As a result, we have made a number of achievements such as

NEL MOS43PM 10 Gb/s Clock & Data Recovery CDR Module Optical

Ended NEL MOS43PM 10 Gb/s Clock & Data Recovery CDR Module Optical Telecom US \$44.99 Thu, Mar 26, 02:58 AM See original listing

50GHz Athermal AWG | Products / Tech Info

NEL is the pioneer and market leader of 50GHz Athermal AWG which is achieved high performance by optimized design and precise fabrication. Up to 96ch for

Photonics Products Lineup | Products / Tech Info (Photonics)| NTT ...

Photonics of NTT Innovative Devices. NEL offers a vast array of products in the information, telecommunications, and multimedia fields - from key devices all the way to system components.

NEL OCXO Frequency Reference Modules

NEL offers several families of ultra and extraordinary low-phase noise OCXO Frequency Reference Modules. These modules feature single and multioutput

[Optical Transceiver Module : Products & Solutions | NEC](#)

NEC has been developing and manufacturing optical transceivers for more than 30 years since the dawn of the optical communications era. Based on this extensive

[100G-and-beyond Coherent Components | Photonics Applications](#)

NEL, a leading supplier of coherent Digital Signal Processor (DSP) solutions to system and module manufacturers worldwide, provides key components for 100G-and-beyond coherent transceivers,

[NEL introduces 64-GBaud coherent DSP for DWDM optical](#)

NTT Electronics (NEL) has introduced its 64-GBaud coherent DSP for DWDM optical transport systems. By combining multiple baud rates and modulation-formats, from 100 Gbps per

[Photonics Products Lineup | Products / Tech Info](#)

Photonics of NTT Innovative Devices. NEL offers a vast array of products in the information, telecommunications, and multimedia fields - from key devices all the

[Optical/Electrical integrated Products](#)

A driver integrated modulator module for digital coherent optical communication using an InP modulator chip featuring high speed, low loss, and low drive voltage.

[10Gbps DML DFB Laser, NEL \(NTT\) NLK1551SSC, 1550nm, Direct](#)

The package contains a high-speed DFB laser chip, thermoelectric cooler, thermistor, optical isolator, and a rear-facet monitor photodiode for external optical power control.

[Optical module design resources | TI](#)

Design requirements Modern optical module designs often require: Reduced power consumption to control and limit module temperature rise. Dynamic and precise control of laser diodes to regulate

[NTT Electronics unveils 16-nm CMOS 100G/200G coherent DSP](#)

NTT Electronics (NEL) has unveiled the newest member of its coherent transmission DSPs. The ExaSPEED 200 is a 16-nm device that supports both 100G QPSK long-haul and 200G 16QAM metro

[Global AI Optical Transceiver Market to Reach US\\$26 Billion in 2026 ...](#)

TrendForce's latest research indicates that the global market for AI-focused optical transceivers has entered a phase of rapid growth, with market size projected to expand from

DFB Lasers | Sensing application website | NTT

Photonics of NTT Innovative Devices. NEL offers a vast array of products in the information, telecommunications, and multimedia fields - from key devices all the

NEL OGA15-B Arrayed Semiconductor Optical Amplifier Module Box

NEL OGA15-B Arrayed Semiconductor Optical Amplifier Module Box and a peltier type thermo-module for the temperature control of SOAs, The simple straight gate switch and 2 arrayed 2X2 opt

Next-generation photonic devices in NEL for optical communication

NTT Electronics Corporation (NEL) provides active and passive photonic devices for WDM fiber optics networks and is contributing to the development and enhancement of optical communication

Optical module

Optical modules can either plug into a front panel socket or an on-board socket. Sometimes the optical module is replaced by an electrical interface module that implements either an active or passive

## Contact Us

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