

NEL photonic business group is a market leader in several fields essential to photonic network innovation.

Our product line includes silica-based planar lightwave circuit (PLC) components, laser diodes, photo diodes, and other related components and devices.

We are a group of specialists taking on the challenge of creating new products that will support the next generation systems.

We have also continuously increased our production capacity in order to respond to the increasing customer's demand.

## Semiconductor Laser Diodes

Semiconductor Laser Diodes include Distributed Feedback (DFB) lasers and Electro-Absorption Modulator Integrated DFB (EA-DFB) lasers.

Available wavelengths cover 980 nm and a band from 1300 to 1650 nm.

For DFB, NEL can prepare any wavelength between 1300 and 1650 nm with a wavelength selection of  $\pm 1$  nm for the DFB.

### Sample Specifications

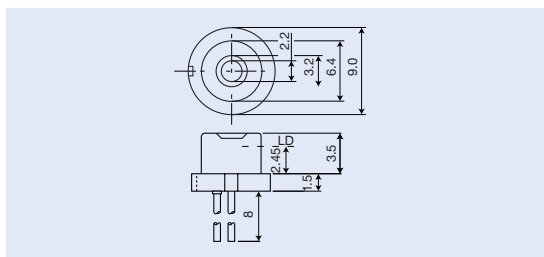
Wavelength	Type	Model Number	CW Output Power	Others	Package Drawings	Standard Pigtail	Isolation (typ.)
980 nm	FP	NLK1004CCA/TOL	150 mW	$\lambda = 980 \pm 5$ nm	- / (1)	-	-
		KELD1005CCA/TOL	220 mW	$\lambda = 980 \pm 5$ nm	- / (1)	-	-
1280-1400 nm	DFB	NLK1356STB	20 mW		2	SM/SC	55dB
		NLK1352STC/SSC/SGC	4 mW	over 10 Gb/s Direct Modulation	(2) / 3 / 4	SM/SC	30dB
1450-1528 nm	DFB	NLK1456STB	20 mW	ITU-T Grid Wavelength	2	SM/SC	30dB
1528-1620 nm	DFB	NLK1554STB	10 mW	ITU-T Grid Wavelength	2	SM/SC	55dB
		NLK1556STB	20 mW	ITU-T Grid Wavelength	2	SM/SC	55dB
		NLK1557STB	30 mW		2	SM/SC	55dB
		NLK1559STB	50 mW		2	SM/SC	55dB
		NLK1552STC/SSC/SGC	3 mW	over 10Gb/s Direct Modulation	2 / 3 / 4	SM/SC	30dB
		NLK1563STB	15 mW	Spectral Linewidth < 100kHz	2	Panda/SC	55dB
		NLK3581STI/SSI/SGI	3 mW	ITU-T Grid Wavelength	2 / 3 / 4	SM/SC	55dB
	EA-DFB	NLK3582STI/SSI/SGI	2 mW	a reach of 40 km SM Fiber	2 / 3 / 4	SM/SC	55dB
1650 nm	DFB	NLK1654STB	10 mW		2	SM/SC	30dB

KELD: Engineering samples intended for laboratory use  
NLK: Commercial products. These products are qualified to the reliability standard of terrestrial communications.

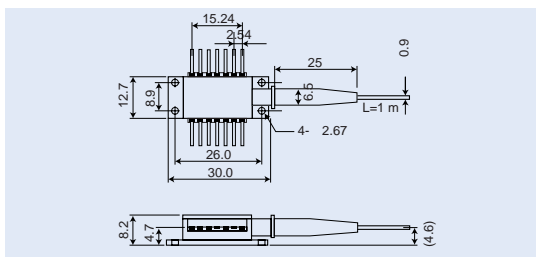
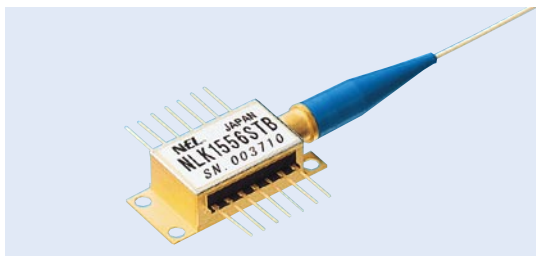
The above products belong to Class III B category devices.  
Besides CCA and TOL, chip-on-carrier and TO-can packages come in several different variations.

In addition to the above standard products, NEL can also prepare custom or special order products.

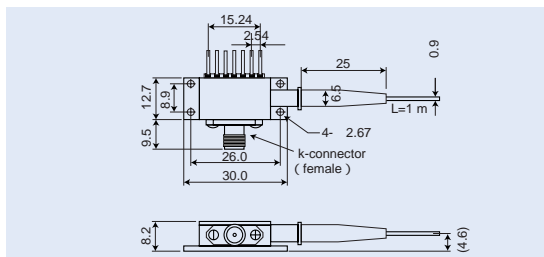
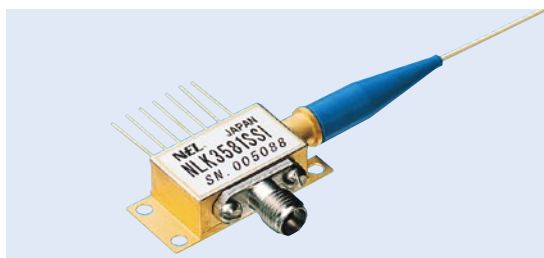
## TOL



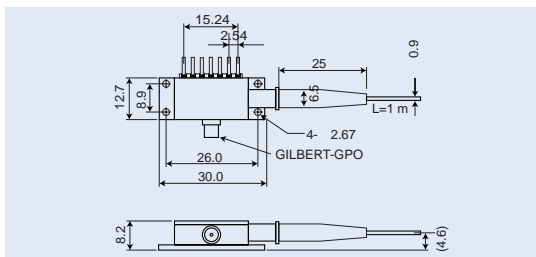
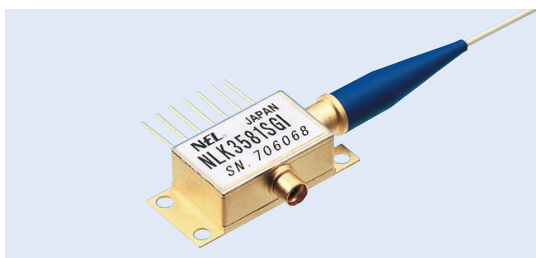
## 14-pin butterfly



## k-connector interface



## GPO-connector interface



GPO™ is a trademark of Gilbert Engineering Co., Inc.