

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.

## Photodiodes

NEL's Photodiodes (PD) are characterized by their high-speed operation.  
PD+preamplifier module is also available.

- KEPD2511KCG is Designed for 10 GHz use.
- KEPD2564VDG is Designed for 40 GHz use.
- 10GPDPRE3 is integrated with a GaAs preamplifier.
- KEPD2511KCG requires an external bias-T for DC biasing.

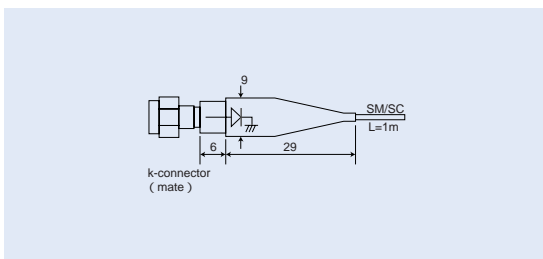
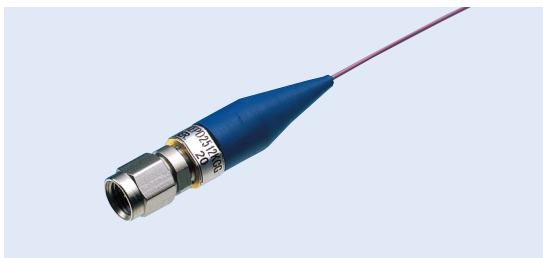
The pigtail for these photodiodes is SM-SC/PC. For customers who prefer FC connectors  
NEL can include with shipment an FC/SC converter.

### Sample Specifications

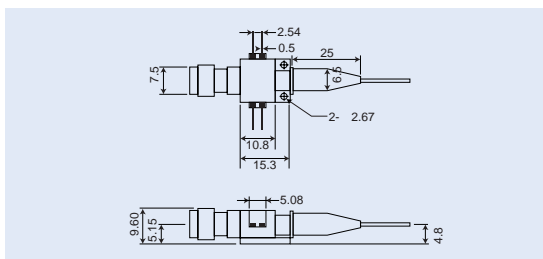
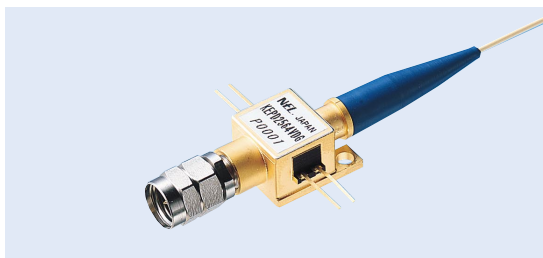
Type	Model Number	3 dB Bandwidth	Responsivity	Maximum Input Power*	Maximum Photocurrent**	Dark Current	Optical Return Loss	Package Drawings
PD	KEPD2511KCG	>10 GHz	>0.8 A/W	50 mW	15 mA	<10nA (@-5V)	>27dB	1
PD+Bias-Circuit	KEPD2564VDG	>40 GHz (@10mW)	>0.55 A/W	40 mW	20 mA	<500nA (@2V)	>27dB	2
PD+Preamp	10GPDPRE3	> 8 GHz	>320 V/W (50 Ω)	1 mW	-	-	>27dB	3

Notes  
The above products are engineering samples and are intended for laboratory use.  
\* A higher input power can give a fatal damage to photodiodes.  
\*\* Photocurrent below which the specified bandwidth is guaranteed.

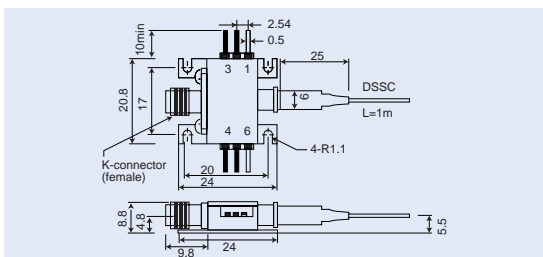
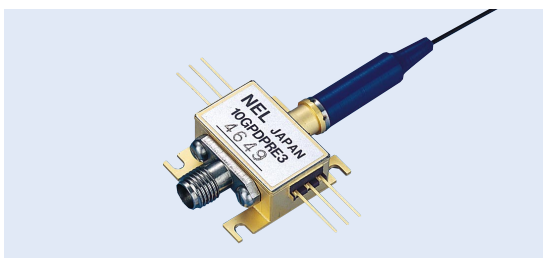
## KEPD2511KCG



## KEPD2564VDG



## 10GPDPRE3



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All information and specifications are subject to change without notice.

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