LASER COMPONENTS®

Advanced Photonix
A Division of OSI Optoelectronics

NSL-16-035

FEATURES
- Passive resistance output
- Ceramic Package

DESCRIPTION
The NSL-16-035 is a CdS photoconductive cell on a TO-5 ceramic substrate. The photocell is encapsulated with epoxy for moisture resistance.

APPLICATIONS
- Industrial

> Absolute Maximum Ratings

Part No.	Power Dissipation[1] [mW]	Peak Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
NSL-16-035	175	100	-40 to +75	-40 to +75	TO-5 ceramic

(1) Derate linearly to 0mW at 75°C

> Electrical and Optical Characteristics

Typical Characteristics per elements (T=23°C unless specified)						
Parameter	**Test Conditions**	**Symbol**	**Min**	**Typical**	**Max**	**Unit**
Light Resistance	100 ftc., 2854°K (2)	R_L	50	70	110	Ω
Dark Resistance	5 sec after removal of test light.	R_D	25	-	-	MΩ
Spectral Peak		λ_P	-	715	-	nm

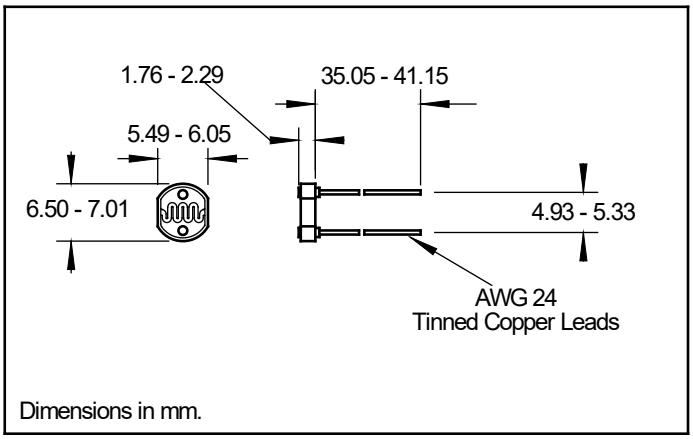
(2) Cells light adapted at 30 to 50 Ftc for 16 hrs minimum prior to electrical tests.

Rev: A
March 31, 2021

/ Germany and Other Countries LASER COMPONENTS Germany GmbH Tel +49 8142 2864 - 0 info@lasercomponents.com www.lasercomponents.com
/ France LASER COMPONENTS S.A.S. Tel +33 1 39 59 52 25 info@lasercomponents.fr www.lasercomponents.fr
/ United Kingdom LASER COMPONENTS (UK) Ltd. Tel +44 1245 491 499 info@lasercomponents.co.uk www.lasercomponents.co.uk

NSL-16-035

> Package Dimensions



> Soldering Conditions: 260˚C 1/16 inch away from case for 3 seconds max.

LEGAL DISCLAIMER

All products, product specifications, and data are subject to change without notice to improve reliability, function, design, or otherwise. Advanced Photonix, its affiliates, agents, employees and all persons acting on its or their behalf (collectively, "Advanced Photonix"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Advanced Photonix makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Advanced Photonix disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability Statements regarding the suitability of products for certain types of applications are based on Advanced Photonix's knowledge of typical requirements that are often placed on Advanced Photonix products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Advanced Photonix's terms and conditions of purchase, including but not limited to the warranty expressed therein. Except as expressly indicated in writing, Advanced Photonix products are not designed for use in life-saving, or life-sustaining applications, or for any other application in which the failure of the Advanced Photonix product could result in personal injury or death. Customers using or selling Advanced Photonix products not expressly indicated for use in such applications do so at their own risk. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Advanced Photonix. Product names and markings noted herein may be trademarks of their respective owners.

MATERIALS SAFETY

This product is free of conflict minerals and meets REACH compliance. Please see website for reports.

Rev: A
March 31, 2021

/ Germany and Other Countries LASER COMPONENTS Germany GmbH Tel +49 8142 2864 – 0 info@lasercomponents.com www.lasercomponents.com
/ France LASER COMPONENTS S.A.S. Tel +33 1 39 59 52 25 info@lasercomponents.fr www.lasercomponents.fr
/ United Kingdom LASER COMPONENTS (UK) Ltd. Tel +44 1245 491 499 info@lasercomponents.co.uk www.lasercomponents.co.uk