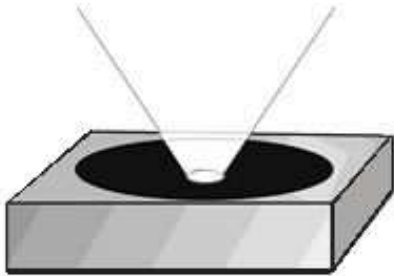


# CERLED®

## Point Light LED

PL 05 R  
Red

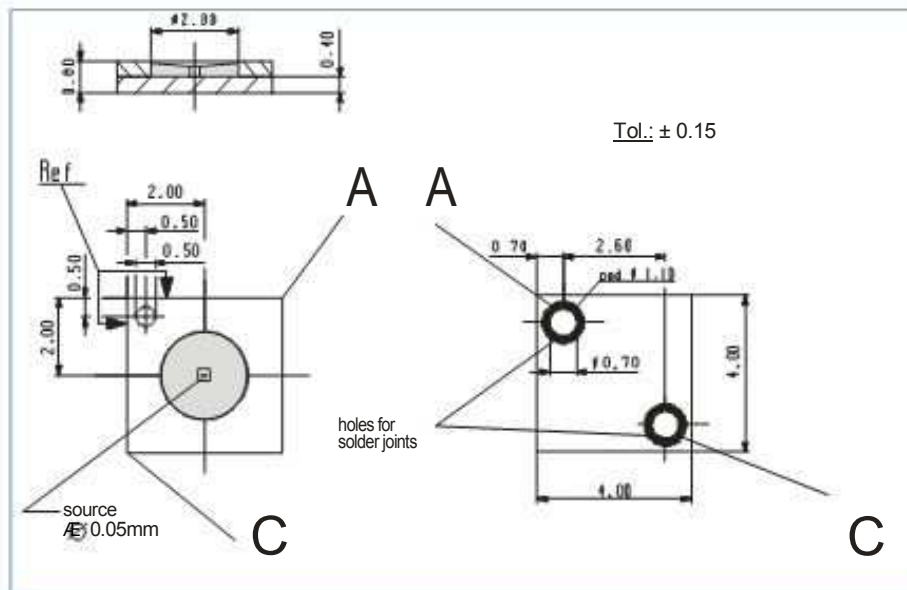


### Description

The Point Light LED is the ideal point-light source for various applications wherever a large light emitting area is not wanted. Customized solutions with other chips are available on request for higher quantities.

### Features and Benefits

- Homogenous light point
- Wide viewing angle
- For references on all mechanical equipment
- Light emitting area only 0.05 mm diameter



### Maximum Ratings at 25° C

Continuous forward current	$I_F$	15 mA
Junction temperature	$T_j$	120° C
Storage temperature	$T_{st}$	-25° C to 120° C
Operating temperature	$T_{op}$	-25° C to 80° C
Soldering temperature	$T_{sold}$ (10 s)	260° C

Adequate heat sink is required. Derating must be observed to maintain junction temperature below maximum. Please note our recommended solder profile at [www.excelitas.com](http://www.excelitas.com).

### Optical and Electronic Characteristics at 25° C

$I_F = 10$  mA, ambient temperature = 25° C

	Symbol	min	typ	max	unit
Radiant Power	$\Phi_e$	80	150		$\mu W$
Peak emission wavelength	$\lambda_p$	645	655	665	nm
Spectral half bandwidth	$\Delta\lambda_{1/2}$		20		nm
Forward voltage	$V_F$		1.9	2.6	V
Reverse voltage (at $I_R=10\mu A$ )	$V_R$	5			V
Light emission angle	$2\theta_{1/2}$		120°		Degree

Note: according 60825-1 (EN60825):

LED Radiation

Do not view directly with optical instruments.

**Excelitas Technologies**  
**European Customer**  
**Support for LED Solutions**  
 Luitpoldstrasse 6  
 85276 Pfaffenhofen, Germany  
 Telephone: (+49)8441-8917-0  
 Fax: (+49)8441-71910  
[generalinquiries@excelitas.com](mailto:generalinquiries@excelitas.com)

**European Headquarters**  
 Wenzel-Jaksch-Strasse 31  
 65199 Wiesbaden, Germany  
 Telephone: (+49)611-492-247  
 Fax: (+49)611-492-170

**North America**  
**Customer Support Hub**  
 22001 Dumberry Road  
 Vaudreuil-Dorion, Québec  
 Canada J7V 8P7  
 Telephone: (+1) 450-424-3300  
 (+1) 866-574-6786 (toll-free)  
 Fax: (+1) 450-424-3345

**Asia Customer Service Hub**  
 47 Ayer Rajah Crescent #06-12  
 Singapore 139947  
 Telephone: (+65)6775-2022  
 (+65)67704-366  
 Fax: (+65)6775-1008

**EXCELITAS**  
 TECHNOLOGIES

For a complete listing of our global offices, visit [www.excelitas.com](http://www.excelitas.com)

©2011 Excelitas Technologies Corp. All rights reserved. The Excelitas logo and design are registered trademarks of Excelitas Technologies Corp. CERLED® is a trademark of Excelitas Technologies Corp. or its subsidiaries, in the United States and other countries. All other trademarks not owned by Excelitas Technologies Corp. or its subsidiaries that are depicted herein are the property of their respective owners. Excelitas reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors.  
 600173\_01 DTS1208