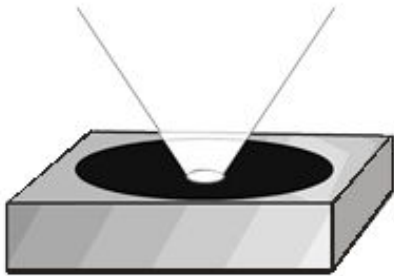


CERLED®

Point Light LED

PL 05 R
Red

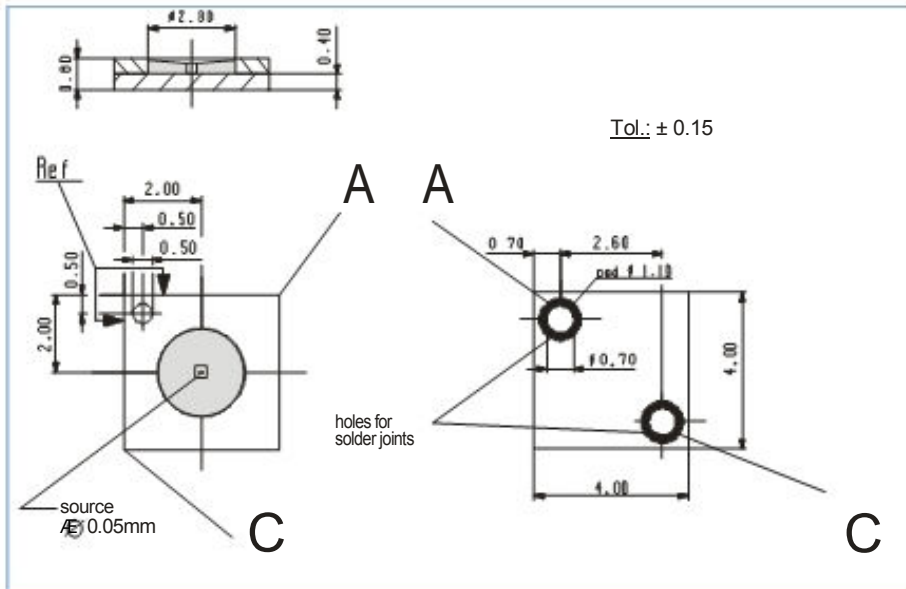


Description

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.

Optical and Electronic Characteristics at 25° C

I_F = 10 mA, ambient temperature = 25° C

	Symbol	min	typ	max	unit
Radiant Power	Φ _e	80	150		μW
Peak emission wavelength	λ _p	645	655	665	nm
Spectral half bandwidth	Δλ _{0.5}		20		nm
Forward voltage	V _F		1.9	2.6	V
Reverse voltage (at I _R =10μA)	V _R	5			V
Light emission angle	2θ _{1/2}		120°		Degree

Note: according 60825-1 (EN60825):

LED Radiation

Do not view directly with optical instruments.

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For a complete listing of our global offices, visit www.excelitas.com

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