

Power LED - Spotlight

Preliminary!

Description:

The power LED - spotlight is the mechanical upgrade of the DieMount standard spotlight LED for 1mm power LED dice. The optical design parameters are unchanged, except only that all mechanical parameters are increased by a factor of 3. The high efficiently light coupling just as the very small radiation angle is kept therefore.

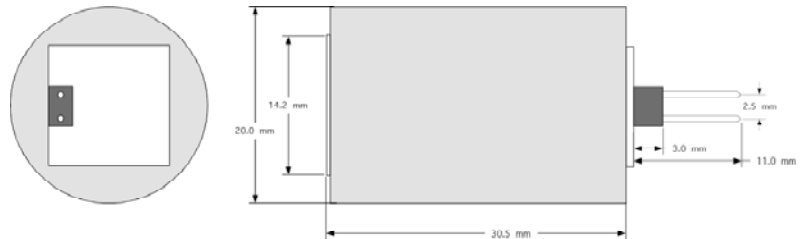
The module enables to illuminate objects very precisely and to drive the LED with a small current. Thus, the LED lifetime increases considerably.

Typical applications include traffic control lighting, signal lighting and all applications where exactly focussed light is needed. Very little stray light is emitted. LED dice with many different wavelengths may be used and are available on request.

As the power consumption of the module is in the order of 1W, a heat dissipating metal housing is necessary. The photos on the right show the power LED – spotlight setup without the metal housing (red module), a complete module and a green power LED module radiating against wall and floor of a room (distance to the wall 2.5m).



Mechanical dimension:



Applications:

- signal lighting for traffic control including air traffic control and waterway signal lighting
- lighting technology for domestic applications, e.g. RGB lamp units
- microscopy lighting applications
- fiber illumination

Technical specifications for LED-spotlight modules:

	blue	green	amber	red
wavelength [nm]	460	538	590	640
Typ. optical output power @ 350 mA [mW]	120	70	40	80
radiation angle (half power bandwidth)	± 4°	± 4°	± 4°	± 4°

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