

3mm fiber powerLED - modules

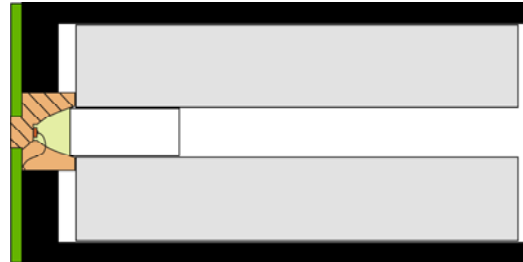
Description:

A power LED operating at 350mA current couples the light via a micro reflector to a 3mm diameter optical polymer fiber of 10mm length.

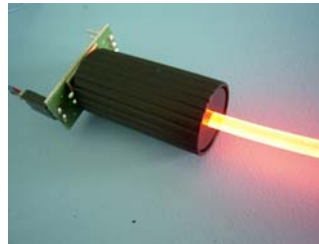
The fiber endface comes out in a 3mm diameter ferrule hole that is designed for butt coupling to a 3mm optical waveguide. The connected waveguide may be a polymer fiber for side light coupling (see photo on the right), a standard 3mm diameter POF for fiber illumination via the endface or a glass fiber bundle fibers with suitable diameter. There is no fixture for the coupled fiber. The fixture must be realized by the external unit design.

The module's aluminium housing serves as heat sink and makes the use of metal core PCB redundant.

Typical applications are all kinds of illumination units that use optical fiber, side light or endface coupled.

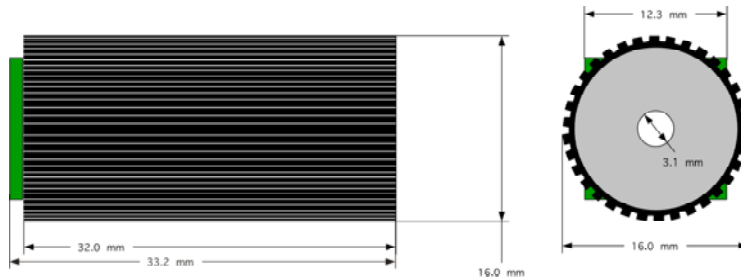


3mm fiber powerLED - module design



3mm fiber powerLED – module (top) and lamp unit (right) in operation

Mechanical dimension:



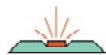
Applications:

- Light module for side light fiber illumination
- Light module for fiber endface illumination

Technical specifications for 3mm fiber powerLED modules:

	blue	green	red	white
wavelength [nm]	460	520	633	–
Typ. optical output power @ 350 mA [mW]	105	32	65	–

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