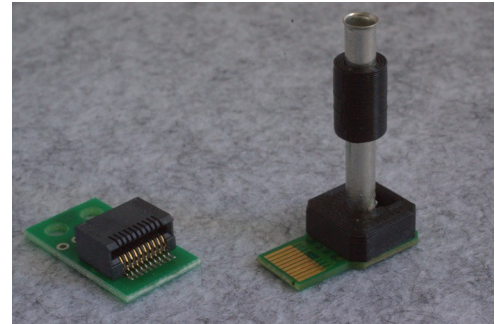


RGB Power LED (COB)

Description:

The RGB Power LED (COB) module is designed for the illumination of side light fibers like SL POF, fiber bundles or other "thick" optical fibers. The module's transmit colour can be switched electrically. 3 power LED dice (40mil size) are COB (chip on board) mounted on a thermally excellent conductive submount. Heat is dissipated via a soldered copper ferrule and allows an overall applied electrical power of up to 1W to the module.



RGB Power LED (COB)

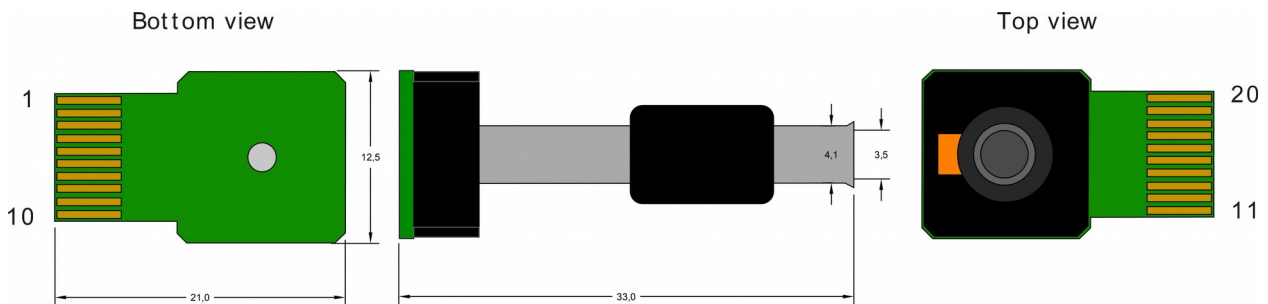
The module couples to a single fiber or a fiber bundle with an outside ferrule diameter of up to 3.5mm. All fibers in the fiber bundle placed inside a 3mm diameter are illuminated homogeneously. A crimp to the protruding ferrule fixes the connected fiber.

The electrical LED connection uses common anode with a PCB connector. Soldered wire connection is feasible, too.

The module standard version uses 630nm red, 520nm green and 460nm blue LED chips; other wavelengths are available on request.

At 150mA LED current the module emits 10 mW (630nm, 520nm) to 20 mW (460nm) to a 3mm standard PMMA POF.

Mechanical dimension:



Pins 1,2	green LED cathode	Pins 11,12	anode all LED and diodes
Pins 3,4	red LED	Pins 13,14	anode all LED and diodes
Pins 5,6	temperature sensor	Pins 15,16	not connected
Pins 7,8	white LED cathode or monitor diode	Pins 17,18	anode all LED and diodes
Pins 9,10	blue LED cathode	Pins 19,20	anode all LED and diodes

Applications:

- Illumination of thick optical fibers with diameter up to 3.5 mm including ferrules diameter
- Illumination of fiber bundles with active diameters up to 3mm

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