

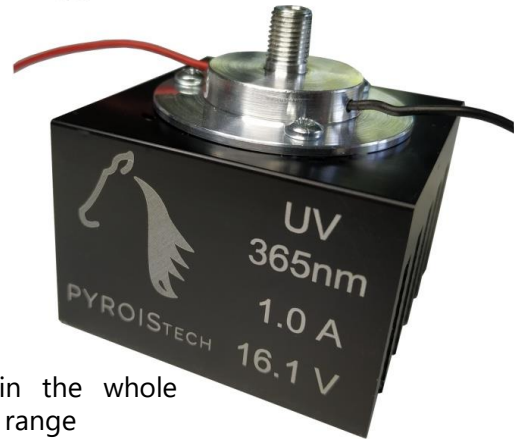
LED modules



Fiber coupled LED

These LED modules can be used as stand-alone devices if you don't require a complex control or with a COB light source if you need a more advanced solution.

They have a configurable output connector (SMA/FC) specially designed to optimize the coupling to an optical fiber. The heatsink allows a quiet operation while providing an effective heat dissipation.



- Quality materials for a long life
- Configurable output connector (SMA/FC)
- Spectral bandwidth configurable with only a single LED from 270 nm to 950nm.
- Suitable for absorption, transmission, fluorescence or colorimetry
- Stable in the whole spectral range
- Compact
- Light
- Silent (no fan)
- Economic

Characteristics

The LED modules have to be fed with a programmable power source. The red wire corresponds to the positive (+) terminal of the LED and the black wire to the negative (-) terminal.

The forward current I_F fed by the power source has to be limited to the value indicated in the table. The typical forward voltage V_F that corresponds to the maximum I_F is the one that appears in the table. Working with a lower value of the current will imply a lower value for the voltage too.

LEDM-XXX-YYY

XXX : central wavelength (nm)
YYY : type of connector, SMA or FC

Reference	λ (nm)	Power ¹ (mW)	Typ. V_F (V)	Max I_F (A)
LEDM-270	270	0.05	8.00	0.15
LEDM-280	280	0.05	8.00	0.15
LEDM-310	310	0.38	6.00	0.60
LEDM-365	365	3.5	16.10	1.00
LEDM-385	385	4.5	3.90	1.00
LEDM-395	395	5.0	3.90	1.00
LEDM-405	405	4.7	3.90	1.00
LEDM-457	457	5.0	3.50	1.00
LEDM-6500 White	-	5.0	3.25	1.20

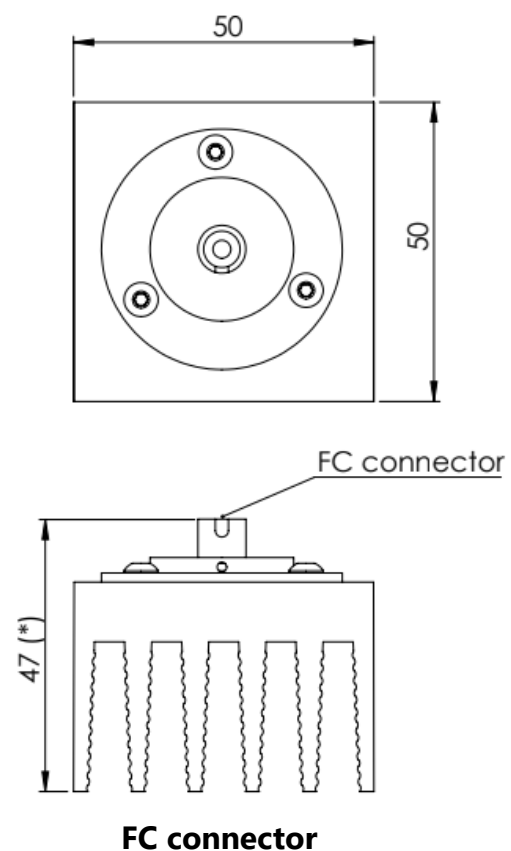
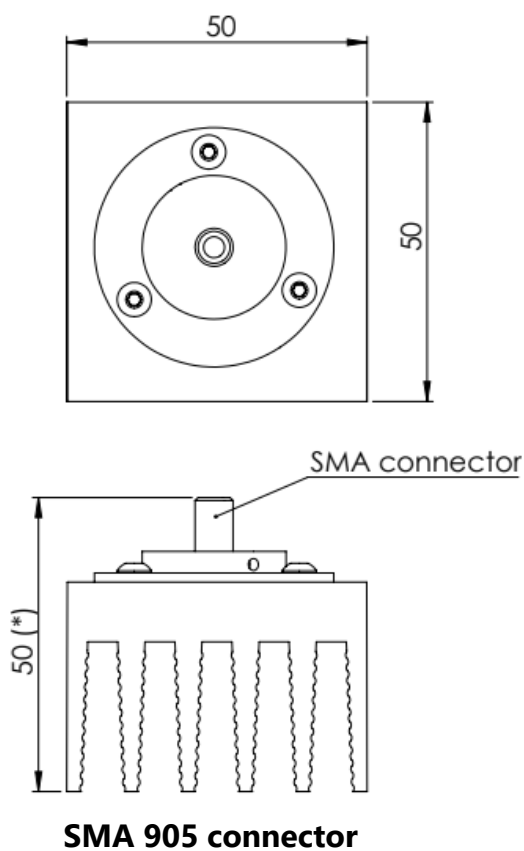
Reference	λ (nm)	Power ¹ (mW)	Typ. V_F (V)	Max I_F (A)
LEDM-460	460	9.0	3.70	1.20
LEDM-523	523	1.5	3.95	1.50
LEDM-590	590	1.0	2.70	1.20
LEDM-623	623	4.5	3.00	1.50
LEDM-660	660	5.0	2.70	1.20
LEDM-740	740	3.5	2.30	1.20
LEDM-840	840	6.0	3.25	1.20
LEDM-940	940	5.0	3.05	1.20
LEDM-3000 White	-	1.0	13.30	1.00

(1) Measured with an optical fiber (core diameter 600 μ m) and a Si photodiode (OPHIR™)

LED modules



Mechanical data



(*) This dimension may slightly vary depending on the specific LED module.
Please consult us if you require this value for a certain model.

Safety Notes

- Do not remove or alter the connector.
- During operation do not cover the LED module. Avoid exposure to direct sun light. A rise in the LED module's temperature could affect its operation or even damage it.
- The output connector of the LED module and the heatsink get hot during operation. After its employment, allow enough time to cool down before handling.
- Optical radiation can damage your eyes. Do NOT stare directly at the light beam.
- Proper protective eyewear must be worn when using LED modules that emit UV radiation ($\lambda = 270, 280, 310, 365, 385, 395, 405$ nm). Avoid exposure to the beam. It is hazardous to skin and eyes, and may cause cancer.
- LED modules with $\lambda = 840$ nm and $\lambda = 940$ nm emit non visible infrared light, which can be hazardous depending on total system configuration (including, but not limited to optics, drive current and temperature). Observe safety precaution given in IEC 62471 when operating these LED modules.

