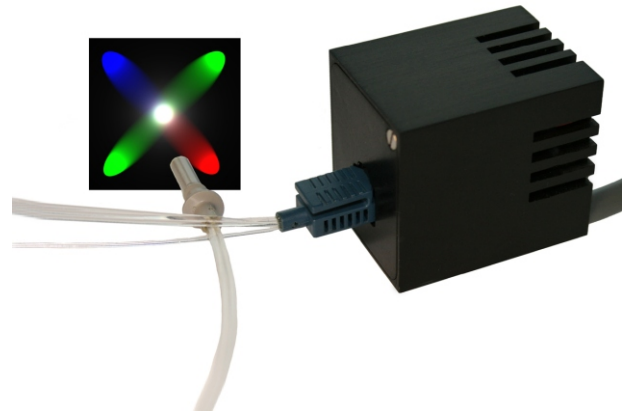


## OCTOLIGHT® - mixed color

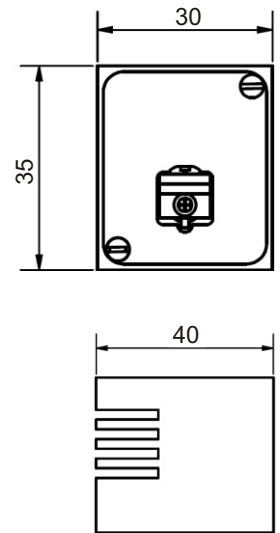
### Features

- fiber coupled high power LED module
- suitable for lighting purposes e.g. spectroscopy
- **light in different colors: red, green, blue, white and mixed color**
- patent applied



### Absolute maximum ratings

Parameter	Red	Green	Blue
Operating temperature	-40 °C to 60 °C		
Storage temperature	-40 °C to 85 °C		
Junction temperature	125 °C		
Forward current per chip DC	750 mA	700 mA	700 mA
Surge current per chip DC	2000 mA		
Reverse voltage per chip DC	0.5 V		
Reverse current	10 mA		
Power consumption per color	2.55 W	6.0 W	3.0 W



### Electrical-optical characteristics

Parameter	Test Condition		Red	Green	Blue
Dominant wavelength	$I_{F, red} = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$	min	613 nm	517 nm	458 nm
		typ	617 nm	525 nm	464 nm
		max	625 nm	534 nm	469 nm
Luminous flux per color	$I_F = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$	min	11 lm	21 lm	1.8 lm
		typ	16.5 lm	25.8 lm	3.1 lm
Luminous intensity per color	$I_F = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$	min	3.6 cd	6.9 cd	0.6 cd
		typ	5.4 cd	8.4 cd	1.0 cd
Spectral bandwidth @ 50 %	$I_F = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$	typ	20 nm	44 nm	24 nm
Half viewing angle	POF 1 mm	typ	25 °	25 °	25 °
Forward voltage	$I_F = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$	min	2.1 V	2.9 V	2.9 V
		typ	2.9 V	3.5 V	3.5 V
		max	3.4 V	4.0 V	4.0 V
Temperature coefficient p. chip	$I_F = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$ , -10°C T 100°C	typ	0.14 nm/K	0.05 nm/K	0.05 nm/K
Optical efficiency	$I_F = 750 \text{ mA}$ , $I_{F, green, blue} = 500 \text{ mA}$	typ	7.5 lm/W	7.5 lm/W	1.8 lm/W
Radiating surface		typ	0.8 mm <sup>2</sup>	2x0.8 mm <sup>2</sup>	0.8 mm <sup>2</sup>

**Compliant with RoHS-requirements (2002/95/EG vom 27.01.2003)**

Note: The above product specifications are subject to change without notice.