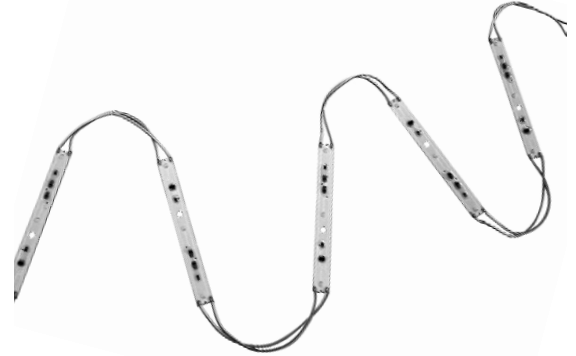
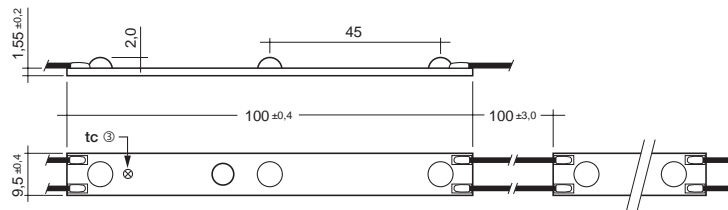


LED P515

RoHS

Dimensions single module LED P515

**Applications:**

- powerLED light chain for highlighting lines, edges and for backlighting letters and symbols in illuminated advertising applications
- backlighting of complex contours
- optimised for use in illuminated advertising (channel letters, backlighting applications)
- edge lighting of transparent or diffuse materials

Highlights:

- optimised price/performance ratio
- uniform illumination with a small number of LED modules
- individually adjustable luminance
- minimal heat generation

Properties:

- high-power LED in COB technology
- colour temperature white: ④
neutral white (NW): 4,200 K
daylight white (DL): 6,500 K
yellow white (YW): dom. wavelength 570 nm
- integrated current source to stabilise luminous flux
- flexible light chain, arbitrary module separation possible
- coated with protective varnish for applications where condensation occurs
- broad 140° light distribution
- fixing: M4 plastic screw or double sided adhesive tape
- connection method: cable 200 mm, both sides
- identification of polarity: + red / – black

Notes:

- for uniform backlighting:
minimum distance to cover 50–60 mm if LED light point spacing is kept evenly
- applying reversed polarity of the supply voltage might lead to damage of the powerLED chain
- none of the components of the powerLED chain (substrate, electronic components etc.) may be exposed to tensile or compressive stresses
- for further information on installation please refer to the brochure entitled “powerLED module installation instructions”

LED

type	article number	colour	wavelength/ colour temp. ④	light points per module	modules per chain	luminous flux lm typ. ①	voltage V DC ②	power W ①	ta °C	tc point °C ③	total length mm	packing unit pieces/carton
LED P515 R 8V	89600337	red	619–629 nm	3	20	250	8	8.8	-25 → +55	75	approx. 4,000	100
LED P515 A 8V	89600338	amber	584–594 nm	3	20	300	8	8.8	-25 → +55	75	approx. 4,000	100
LED P515 G 12V	89600340	green	520–535 nm	3	20	150	12	9.6	-25 → +55	75	approx. 4,000	100
LED P515 B 12V	89600339	blue	460–465 nm	3	20	50	12	9.6	-25 → +55	75	approx. 4,000	100
LED P515 NW neutral	89600341	neutral white	4,200 K	3	20	205	12	9.6	-25 → +55	75	approx. 4,000	100
LED P515 DL daylight	89600342	daylight white	6,500 K	3	20	250	12	9.6	-25 → +55	75	approx. 4,000	100
LED P515 YW	89600414	yellow white	570 nm	3	20	290	12	9.6	-25 → +55	75	approx. 4,000	100

all data for ta = 25 °C

① Tolerance range for optical and electrical data: ±15 %

② Exceeding the maximum operating voltage leads to an overload on the LED module.

This may in turn result in a significant reduction in lifetime or even destruction of the LED module.

Tolerance range for the supply voltage:

8 V: +2V / -0V

12 V: +2V / -0V

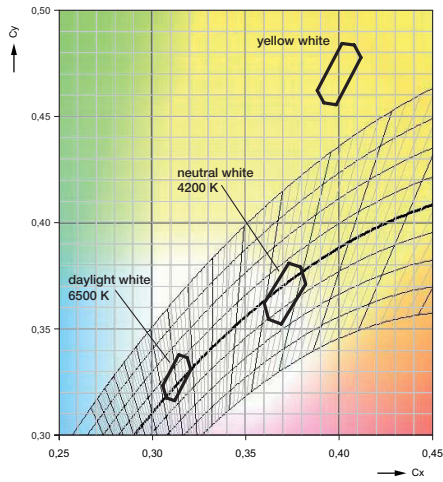
③ If the maximum temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged.

The temperature of the LED module at the tc point in the thermally stable state by means of a temperature sensor or temperature-sensitive sticker (available for example from www.conrad.com, www.rs-components.com) as per EN60598-1.

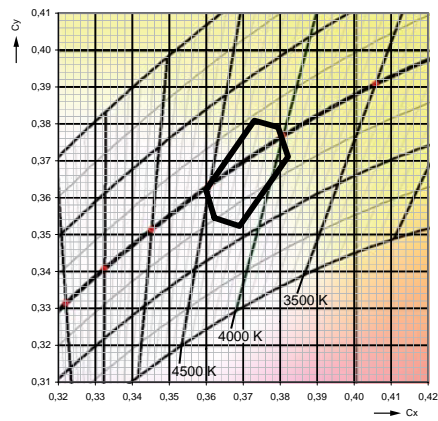
For the precise position of the tc point see the above diagram.

④ For colour temperatures and tolerances see page 2

powerLED light chain LED P515: Corresponding colour temperature and CIE coordinates: overview



Corresponding colour temperature and CIE coordinates 4,200 K

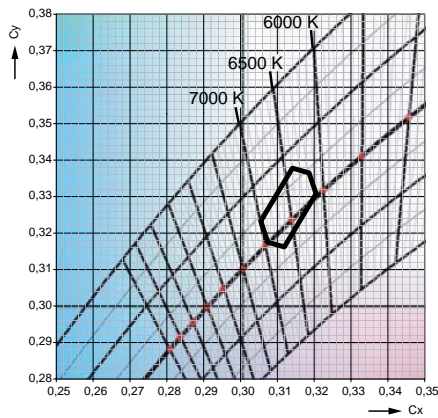


CIE coordinates: tolerance area

neutral white, 4,200 K

	Cx	Cy
Centre	0.3710	0.3669
tolerance area	0.3622	0.3545
	0.3599	0.3621
	0.3730	0.3809
	0.3794	0.3791
	0.3821	0.3711
	0.3690	0.3523

Corresponding colour temperature and CIE coordinates 6,500 K

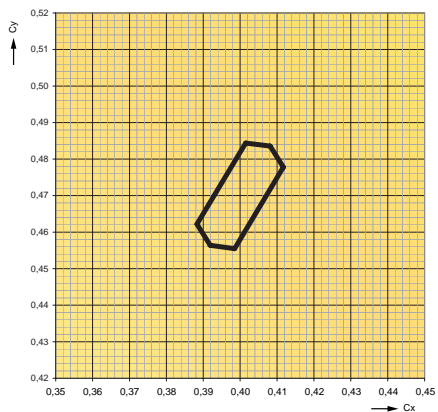


CIE coordinates: tolerance area

daylight white, 6,500 K

	Cx	Cy
Centre	0.3130	0.3270
tolerance area	0.3074	0.3175
	0.3055	0.3233
	0.3141	0.3378
	0.3186	0.3365
	0.3205	0.3308
	0.3119	0.3162

CIE coordinates yellow white (YW)



CIE coordinates: tolerance area

yellow white (YW)

	Cx	Cy
Centre	0.4000	0.4700
tolerance area	0.3919	0.4564
	0.3883	0.4622
	0.4015	0.4844
	0.4081	0.4836
	0.4117	0.4778
	0.3985	0.4555