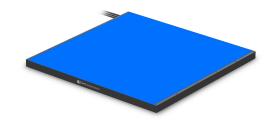


LT3BC500500-B | DATASHEET

High-power LED backlights with integrated driver





SPECIFICATIONS

Lighting specifications

(mm)	500
(mm)	500
	3600
	blue, 465 nm
(nm)	30
(klux)	5
(W/m²)	202
(klux)	9
(W/m ²)	346
(klux)	26
(W/m ²)	1187
	yes
	optional
	(mm) (nm) (klux) (W/m ²) (klux) (W/m ²) (klux)

Mechanical specifications

(mm)	508.0
(mm)	526.0
(mm)	24.0
(g)	4172
	4x M4 threaded holes
(°C)	0-40
(°C)	0-50
(°C) (%)	0-50 20-85, non condensing
. ,	20-85, non
	(mm) (mm) (g)

KEY ADVANTAGES

High-power light output

Built-in driver for continuous and strobe operations

Industry standard 5 PIN M12 Connector with PNP/NPN/analog dimming input

Optional collimating, polarizing and protective filters Compact & robust design with reduced thickness (24 mm) and thin edges

Automatic shutdown in case of overheating

The LT3BC series features high-performance LED backlights designed to provide high-power light output, excellent uniformity and contrast thanks to high-efficiency LEDs.

Electrical specifications

Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuos	(mA)	6000
Power consumption, contin- uos	(W)	144
Current, boosted	(mA)	12000
Power consumption, boosted	(W)	288
Pear current, strobe	(mA)	40000
Peak power consumption, strobe	(W)	960
Min pulse duration	(µs)	3
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(ns)	300
Typical jitter	(ns)	10
		PNP logic input,
I/O interface		NPN dimming input ,
		analog dimming input
Connector		M12 straight plug
Connector		male connector
Included cable		3x 20 cm pigtail
Eye safety		

Eye safety

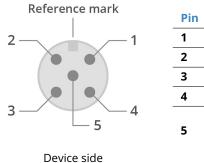
Risk group (CEI EN 62471:2010) ¹ At emitting surface.

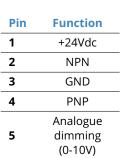
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Risk group 1



CONNECTOR PINOUT



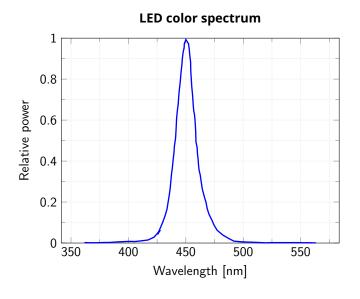


COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.



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