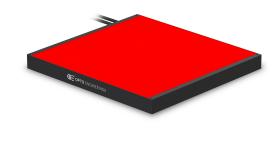


# LT3BC250250-R | DATASHEET

# High-power LED backlights with integrated driver





#### **SPECIFICATIONS**

#### **Lighting specifications**

Illumination area height	(mm)	250
Illumination area width	(mm)	250
Number of LEDs		900
Light color, peak wavelength		red, 625 nm
Spectral FWHM	(nm)	20
Illuminance, continuos <sup>1</sup>	(klux)	20
Irradiance, continuos <sup>1</sup>	(W/m²)	84
Illuminance, boosted <sup>1</sup>	(klux)	41
Irradiance, boosted <sup>1</sup>	(W/m <sup>2</sup> )	174
Illuminance, strobe <sup>1</sup>	(klux)	184
Irradiance, strobe <sup>1</sup>	(W/m²)	802
Diffuser		yes
Collimation film		optional

#### **Mechanical specifications**

Height	(mm)	248.0
Width	(mm)	276.0
Thickness	(mm)	24.0
Mass	(g)	1308
Clamping system		4x M4 threaded holes
Environment		
Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only
IP rating		IP54

#### **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)	1750	
Power consumption, contin- uos	(W)	42	
Current, boosted	(mA)	3500	
Power consumption, boosted	(W)	84	
Pear current, strobe	(mA)	15000	
Peak power consumption, strobe	(W)	360	
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	
		male connector	
Included cable		2x 20 cm pigtail	
Free and factors			

#### Eye safety

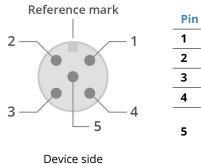
Risk group (CEI EN 62471:2010)
<sup>1</sup> At emitting surface.

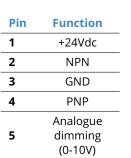
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Exempt



### **CONNECTOR PINOUT**



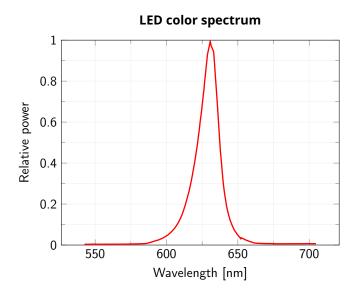


## **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.



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