

# LT2PRXP-R-C | DATASHEET

# High power LED pattern projector, red, 625 nm





## **SPECIFICATIONS**

#### **Lighting specifications**

Active area diameter	(mm)	17.6
Light color, peak wavelength		red, 625 nm
Spectral FWHM	(nm)	20
Illuminance, continuos <sup>1</sup>	(klux)	-
Irradiance, continuos <sup>1</sup>	(W/m²)	-
Illuminance, strobe <sup>1</sup>	(klux)	1300
Irradiance, strobe <sup>1</sup>	(W/m²)	6370

Electrical	specifications

Operating mode		Strobe
Power supply mode		Constant current driving
Supply voltage <sup>2</sup>	(V)	-
Current <sup>2</sup>	(A)	-
Power consumption <sup>2</sup>	(W)	-
Peak power consumption <sup>3</sup>	(W)	37.2
Max led forward current <sup>3</sup>	(A)	3
Min pulse duration	(µs)	-
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	-
Typical jitter	(%)	-

#### **KEY ADVANTAGES**

High efficiency LEDs for sharp edges, superior homogeneity and contrast Built-in driver for continuous and strobe operations 5 PIN M12 Connector with PNP/NPN/analogue dimming input Compatible with standard C-mount lenses up to 1.1" Automatic shutdown in case of overheating Interchangeable projection patterns Compact version available

**LTPRUP series** features high-power LED pattern projectors designed for inline or offline applications including quality control, 3D reconstruction, dimensional measurement, planarity control, robot guidance and alignment applications.

#### **Mechanical specifications**

Mount		С	
Phase adj availability		Yes	
Length	(mm)	67.5	
Width	(mm)	46.0	
Height	(mm)	93.0	
Mass	(g)	199	

#### Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only
IP rating		IP30

#### Eye safety

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

<sup>2</sup> Continuous mode, using the integrated electronic driver.
<sup>3</sup> Strobe mode.

I/O interface

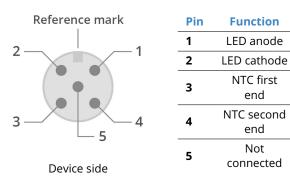
Connector	1x M12 straight plug male connector
Included cable	not included

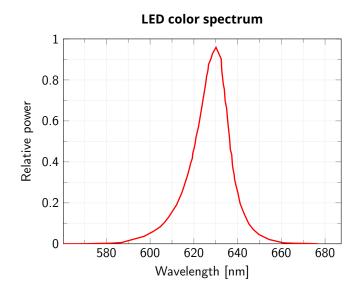
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Exempt



#### **CONNECTOR PINOUT**





# 3,000 3,000 2,000 1,000 0 8 10 12 14 Forward voltage [V]

**Voltage current characteristics** 

#### **RECOMMENDED ACCESSORIES**

Opto-Engineering<sup>®</sup> suggests the following accessories to power the camera:

- **CBLTM12-5P-2M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 2 m
- **CBLTM12-5P-5M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 5 m
- **CBLTM12-5P-10M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end - 10 m

### **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.

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