

A new star is born. Again.



Golden DRAGON®

Opto Semiconductors

OSRAM

A new star is born. Again.

We are sure that you have already discovered our Golden DRAGON® products in the LED heavens for yourself. Now it's time to introduce our brightest starlights: Golden DRAGON® Thinfilm/ThinGaN® and Golden DRAGON® ARGUS®. Our high performance LEDs emit the maximum light from the smallest possible source and have an extremely long lifetime. With these products designers and developers break into a new universe of illumination.



Golden DRAGON®

BENEFITS

A new dimension in brightness

Dazzling bright white light with typical 45 lm @ 350 mA is emitted from a tiny surface.

High reliability

The Golden DRAGON® is characterized by a long life time of up to 50 000 hours due to an excellent thermal design and silicone encapsulation.

Cost saving

The Golden DRAGON® range is the only high-performance LED that can be processed using standard soldering techniques.

Flexible applications

The availability of the complete color portfolio and external optics as well as the extraordinary brightness open up new possibilities for almost any lighting application including general lighting.

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FEATURES

- High performance LED emitting maximum light from the smallest possible source
- Power LED: only 1.8 mm height
- Low heat resistant
- Meets the quality requirements of the automobile industry
- Complete color portfolio available: Red (625 nm), amber (617 nm), yellow, true green, verde, blue, white, warm white
- Planned developments so far: Golden DRAGON® with integrated lenses
- Can be processed using standard soldering techniques
- Lead (Pb) free - RoHS compliant

APPLICATIONS

General illumination

- Architectural lighting and room lighting
- Design and effect illumination
- Illuminated advertising
- Emergency lighting
- Replacement of conventional light bulbs

Automotive

- Exterior: Headlamp, daytime running light, fog light, rear combination light
- Interior: Dome light

Industry

- Signs, channel letters
- Traffic lights
- White goods i.e. fridge illumination

Communication

- Strobe light for mobile phones and digital cameras

PRODUCTS

Golden DRAGON® Thinfilm/ThinGaN®				
Type	Color	Wavelength	Typ. Output/Current	
LR W5SM	Red	625 nm	43 lm @ 400 mA	
LA W5SM	Amber	617 nm	53 lm @ 400 mA	
LY W5SM	Yellow	590 nm	30 lm @ 400 mA	
LT W5SM	True Green	528 nm	42 lm @ 350 mA	
LB W5SM	Blue	470 nm	14 lm @ 350 mA	
ZW W5SG	White	x/y 0.32/0.31*	45 lm @ 350 mA	
LW W5SM	White	x/y 0.32/0.31*	45 lm @ 350 mA	
LCW W5SM	Warm White	x/y 0.42/0.40*	32 lm @ 350 mA	

Golden DRAGON®				
LA W57B	Amber	617 nm	18 lm @ 400 mA	
LY W57B	Yellow	587 nm	18 lm @ 400 mA	
LT W5SG	True Green	528 nm	33 lm @ 350 mA	
LV W5SG	Verde	505 nm	27 lm @ 350 mA	
LB W5SG	Blue	470 nm	8 lm @ 350 mA	
LW W5SG	White	x/y 0.32/0.31*	30 lm @ 350 mA	
LCW W5SG	Warm White	x/y 0.42/0.40*	23 lm @ 350 mA	

* Color coordinates acc. to CIE 1931



Golden DRAGON® ARGUS®

BENEFITS

Optimized for large screen backlighting

The wide radiation of the ARGUS® optic is optimal for large screen backlighting. Most of the light is emitted to the side and the individual control of each color enables you to achieve a perfect mixture of red, green and blue as well as an adjustable white point.

Pulsed operation

Because of fast switching times of less than 100 ns a sequential coloring is possible. Furthermore pulsed operations reduce blurring effects and provide unlimited dimming.

Slim designs

Flat LC-Display design become reality due to low package height of less than 4 mm.

FEATURES

- Available in red, true green, blue and deep blue. Further colors planned
- High luminous efficiency due to latest chip technology Thinfilm/ThinGaN®
- Large color gamut of more than 105% NTSC (Standard of the National Television System Committees)
- Long lifetime > 50 000 hours
- Lead (Pb) free - RoHS compliant

PRODUCTS

Golden DRAGON® ARGUS®				
LR W5KM	Red	625 nm	45 lm @ 400 mA	
LT W5KM	True Green	528 nm	56 lm @ 350 mA	
LB W5KM	Blue	470 nm	15 lm @ 350 mA	
LB W5KM	Deep Blue	455 nm	9 lm @ 350 mA	

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www.osram-os.com/goldendragon/

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