Aismalibar

The technological leap from tungsten to the LED semiconductor diode has changed the way the world is lit. From the time of its discovery at the beginning of the 20th century until now, LED has evolved into becoming the most efficient electroluminescent model available.

Its expansion and presence in every area of our lives make it a lighting system frequently used in architecture, interior design, decoration and urban planning. It is also found in stadiums, arenas, industrial environments and horticulture.

The efficiency of the system depends on being able to keep the light source at the lowest temperature possible. With the help of Aismalibar products, excess heat can be managed and dispelled, thereby ensuring the quality of the light and the reliability of all your LED products.

COOLING ELECTRONICS

Benmayor
Aismalibar

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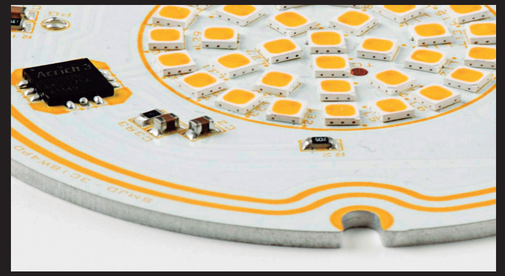
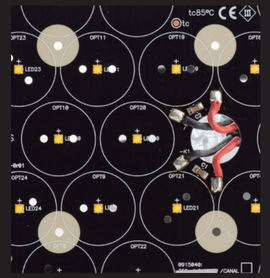
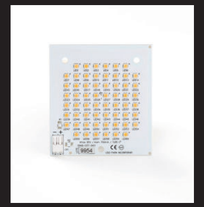
LIGHTING-LED

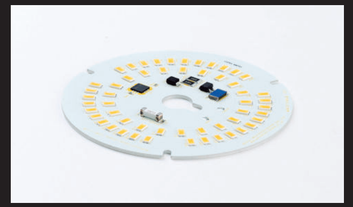
Power LED packages

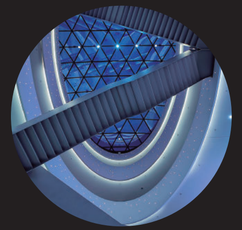
From the first LEDs that appeared in 1995 to the current Power LED packages, strengthening thermal management to guarantee the useful life and stability of the luminous flux have been industry priorities. Our laminated substrates are smaller and more efficient. In addition, they reduce production costs by offering the possibility of minimizing the use of additional fans and heat sinks.











ARCHITECTURAL

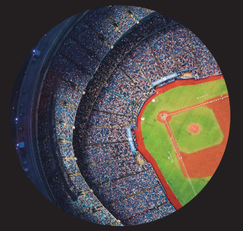
Function defines form. This Bauhaus maxim, added to Mies van der Rohe's "less is more", could serve as a perfect definition of the relationship between LED and architecture. The aesthetic and functional requirements of sector professionals are harmoniously combined with the needs of these buildings, which through large-scale LED lighting projects become genuine works of art. Aismalibar handles the thermal management of these lights, avoiding changes in tone and loss of intensity and ensuring their planned useful life.

FLEXTHERM | COBRITHERM ALCUP

STREET LIGHTING

Lighting projects for smart cities of the future depend on the ability to balance technology, ecology and costs. The combination of LED technology and Aismalibar's IMS substrates increases product longevity, guarantees a stable luminous flux and reduces maintenance costs by increasing replacement intervals. The result is sustainably lit smart cities that are safer and more humane.

COBRITHERM ULTRATHIN | FASTHERM | COBRITHERM HTC | BOND SHEET CURED



STADIUMS & ARENAS

LED technology was first installed in the form of floodlights in stadiums and arenas. The idea was to save energy and reduce the electricity costs incurred during prime-time sports events. These high-intensity lighting systems, which range from 100 to 4.000 W, are very efficient in large spaces compared to their conventional predecessors. Achieving the least amount of thermal resistance from the chip to the heat sink is essential within this intensity range.

COBRITHERM ULTRATHIN | FASTHERM | COBRITHERM HTC

DECORATIVE

The use of LEDS as a decorative element is now common in domestic and residential environments. Their presence in households has helped reduce electricity costs, contributing to the reality of more environmentally friendly homes. Aismalibar is a point of reference for lighting manufacturers interested in effective thermal management systems for their products.

FLEXTHERM | COBRITHERM ALCUP

INDUSTRIAL & HORTICULTURE

Lighting industrial spaces with large LED lights allows maximum profitability between cost and investment. The energy costs of these spaces directly affect the productivity of the activities carried out there. In sectors such as horticulture, LED light is a major ally in greenhouses, where, depending on growing requirements, its ability to produce different adapted light spectra enhances photosynthesis and plant growth. Aismalibar's extensive portfolio covers the thermal management needs of these lights, obtaining maximum system performance and design flexibility.

COBRITHERM ULTRATHIN | FLEXTHERM | FASTHERM | COBRITHERM HTC

Linked Products

COBRITHERM ULTRATHIN

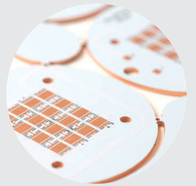
An innovative Ultra-Thin dielectric layer of up to only 35 microns provides higher thermal performance and excellent working temperature, which offers excellent thermal dissipation conditions for high power LEDs assembly.

COBRITHERM HTC

It is designed for the reliable thermal dissipation of circuitry. A proprietarily formulated reinforced-polymer-ceramic bonding layer with a high thermal conductivity and high dielectric strength allows us to guarantee thermal endurance.

COBRITHERM ALCUP

It is ideal for high and medium power applications and the most commonly used LED assembling purposes from 1W to 2W. Highly recommended for mass production with cost restrictions.

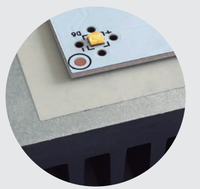


FASTHERM

By using FASTHERM, LEDs operate at 30 to 50ºC lower in temperature due to the direct thermal transition from the thermal pad to the heat sink. It is perfect for LED dissipation direct bonding to the substrate.

FLEXTHERM

Its flexible properties enable it to conform to both the negative and positive radii allowing the product to adapt to the ever changing demands of the industry. Typical applications are high power LED, power supply modules and the automotive industry.



BOND SHEET CURED

Dielectric polymerized glass reinforced in a Bond Sheet with high thermal conductivity. It is based on epoxy ceramic chemistry, and intended for improving thermal contact between two surfaces. Its high resistance to thermal shocks assures heat dissipation in critical power circuitry.

Aismalibar

LIGHTING-LED