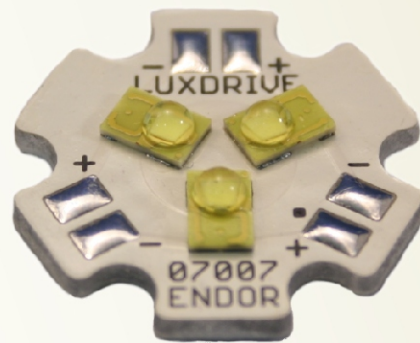


Product Overview

An electrically isolated star capable of delivering over 500 lumens, the LuxDrive Endor combines high brightness with ease of integration into fixtures and OEM applications. The LuxDrive Endor is a star featuring the LUXEON Rebel® emitter, and a footprint compatible with the LUXEON® Star. Inherent electrical isolation means thermal interface materials are not required to be electrically insulative. The Endor is available in single or tri-emitter white configurations. The Endor is also available in an RGB tri-emitter configuration.

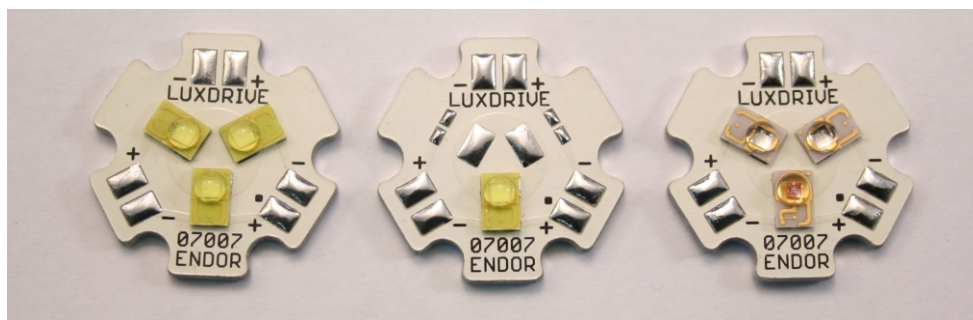


Features

- Electrically isolated heat sinking surface
- Pb free reflow solder connections
- RoHS Compliant
- Autoclave compliant JESD22 A-102
- Thin, low profile package
- Simple, clearly marked electrical connections
- Superior life span and reliability
- Energy efficient
- Easy mounting

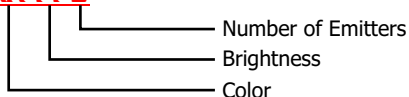
Typical Applications

- Solar & Landscape Lighting
- Architectural Lighting
- General Illumination
- Automotive & Marine Lighting
- Point of Purchase Lighting
- Signal & marker Lighting
- Cabinet & Display Case Lighting
- Sign Lighting
- Flashlights



Part Number Identification

7007-PXX-YY-Z



The Endor is available with a single or tri-emitter configuration. The color code and luminous flux figures are adapted from the LUXEON Rebel® Datasheet. The following is of some of the currently available Endor configurations.

Part Number	# LEDs	Color	Min. Lumens at 350mA	Typ. Lumens at 700mA
7007-PWC-05-1	1	Cool White	50	95
7007-PWC-05-3	3	Cool White	150	285
7007-PWC-08-1	1	Cool White	80	145
7007-PWC-08-3	3	Cool White	240	435
7007-PWC-09-1	1	Cool White	90*	160*
7007-PWC-09-3	3	Cool White	270*	480*
7007-PWC-10-1	1	Cool White	100*	180*
7007-PWC-10-3	3	Cool White	300*	540*
7007-RGB-01-3	3	RGB	N/A	N/A

*Preliminary, dependent upon LUXEON Rebel® final specifications.

See LUXEON Rebel® data sheet for more details

Specifications

Color	# LEDs	Thermal Resistance (LED junction to bottom of MCPCB)
White	1	13°C/W
White	3	6.3°C/W
RGB	1	15°C/W
RGB	3	7°C/W

Storage Temperature..... <185°C
 Recommended Operating Temperature (T_{opr})..... <100°C



RoHS
Compliant
2002/95/EC

Drivers

LuxDrive offers a line of drivers designed for use with high-power LED modules such as the Endor. The choice of driver will depend upon number of modules to be driven, the input voltage source, and the desired forward drive current.

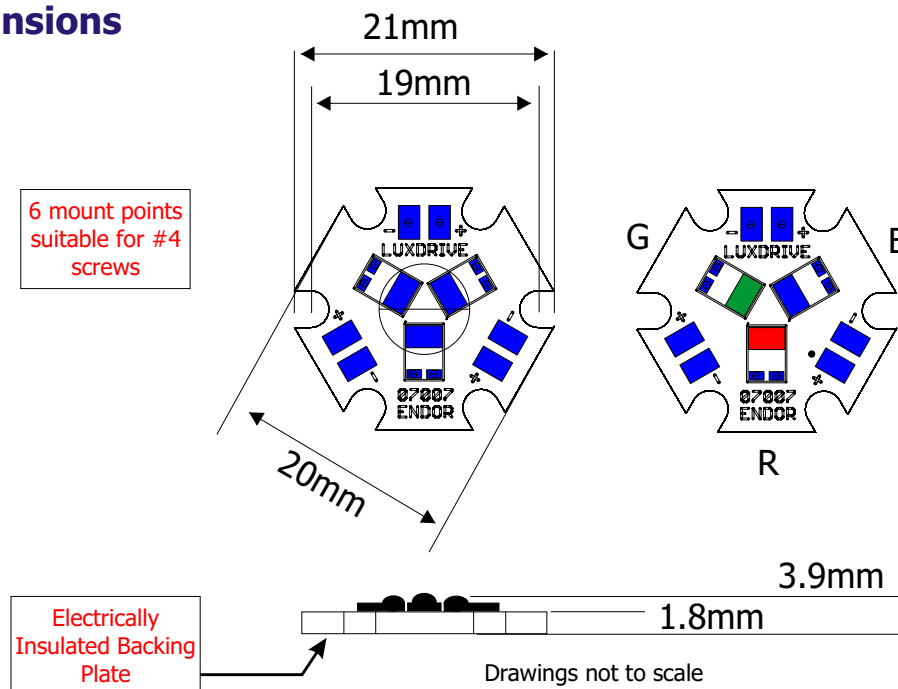
Heat Sinking and Mounting

The Endor™ has 6 mounting points for #4 screws. It should be attached to additional heat sinking for proper thermal management. At minimum, a heat sink of a metal plate (copper or aluminum), attached using a thermal interface material, should be used to increase the area exposed to free air.

The Endor™ MetalCore printed circuit board has a backing plate that is electrically isolated from the emitter. It is not necessary to use an electrically insulated thermal interface material.

Future revisions of this datasheet will include a more detailed discussion of thermals.

Physical Dimensions



Physical Attributes of 7007 Endor