

# LUXDRIVE UV-C HIGH POWER STARS

## Industry Leading UV-C LEDs from Nichia & Seoul

### PRODUCT DESCRIPTION

LUXdrive™ UV-C LED stars are ideal for a variety of applications including surface sterilization, water disinfection, and air purification. UV-C LEDs from Nichia and Seoul are mounted on our industry standard 20mm, aluminum based metal core printed circuit board (MCPCB). Inherent electrical isolation means thermal interface materials are not required to be electrically insulative. Please take necessary precautions when working with UV-C LEDs. The wavelengths emitted are very dangerous to the eyes and skin.

#### Superior Performance

Stay current with the highest intensity LEDs

#### Design Faster

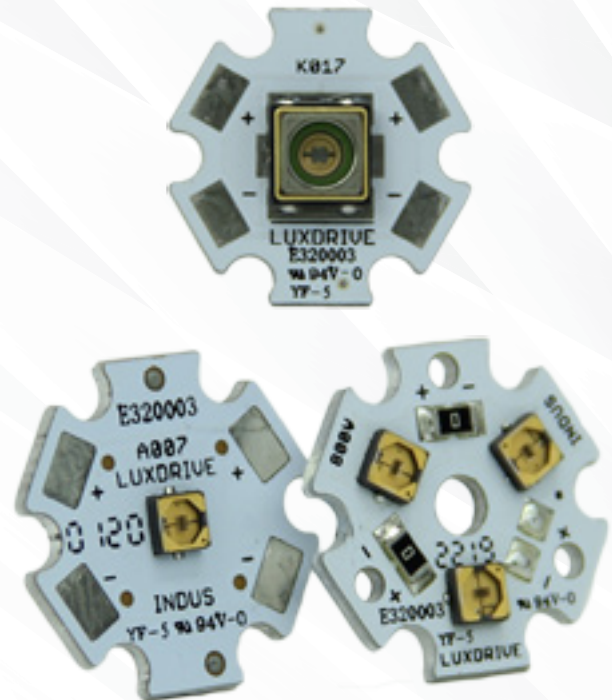
Standard 20mm starboards to shorten development time

#### UV-C Wavelengths

275-280nm UV-C light emitted from top Nichia & Seoul LEDs

#### Quick Connections

Simple, clearly marked electrical connections



### PRIMARY APPLICATIONS

- ✓ FOOD PREP
- ✓ SURFACE STERILIZATION
- ✓ HORTICULTURE
- ✓ CHEM. & BIO. ANALYSIS
- ✓ AIR PURIFICATION
- ✓ WATER DISINFECTION
- ✓ RESEARCH
- ✓ FLUORESCENT SPECTROSCOPY

### CUSTOM SOLUTIONS

LEDdynamics operates manufacturing facilities with ISO certifications for the LED lighting industry. Our Vermont based office provides quick engineering & sales support with a R&D lab for prototype development and custom solutions. LEDdynamics' electrical engineers merge LED driver design and LED light module disciplines onto a single PCB to create a cost-saving LED light engine that can be incorporated into any LED light fixture.

### ABOUT LEDDYNAMICS

LEDdynamics accelerates the adoption of LED technology through simple, modular products and custom designs. As an industry innovator, LEDdynamics offers a range of LED drivers, control products, light engines, and modules designed to meet the needs of new product development or retrofit lighting applications. We also specialize in custom engineering and manufacturing services for projects that require a unique form, fit, or function.





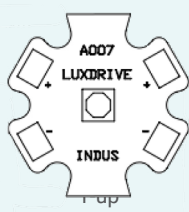
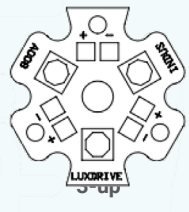
## UV-C HIGH POWER LED STARS

NICHIA

NICHIA NCSU334B(T)	PART NUMBER	PEAK WAVE- LENGTH	TYP. FLUX (MW)	FORWARD VOLTAGE @ 350MA
	0K017-N33428042	280nm	70	5.5

Values specified @ 350mA, T<sub>j</sub> 25°C, for more information see [emitter data sheet](#).

## SEOUL VIOSYS

SEOUL VIOSYS BOARD	PART NUMBER	PEAK WAVELENGTH	TYP. FLUX (MW)	FORWARD VOLTAGE @ 100MA
	0A007-EGBF27508	275nm	11	5.6
	0A008-EGBF27508		33	16.8

Values specified @ 100mA, T<sub>j</sub> 25°C

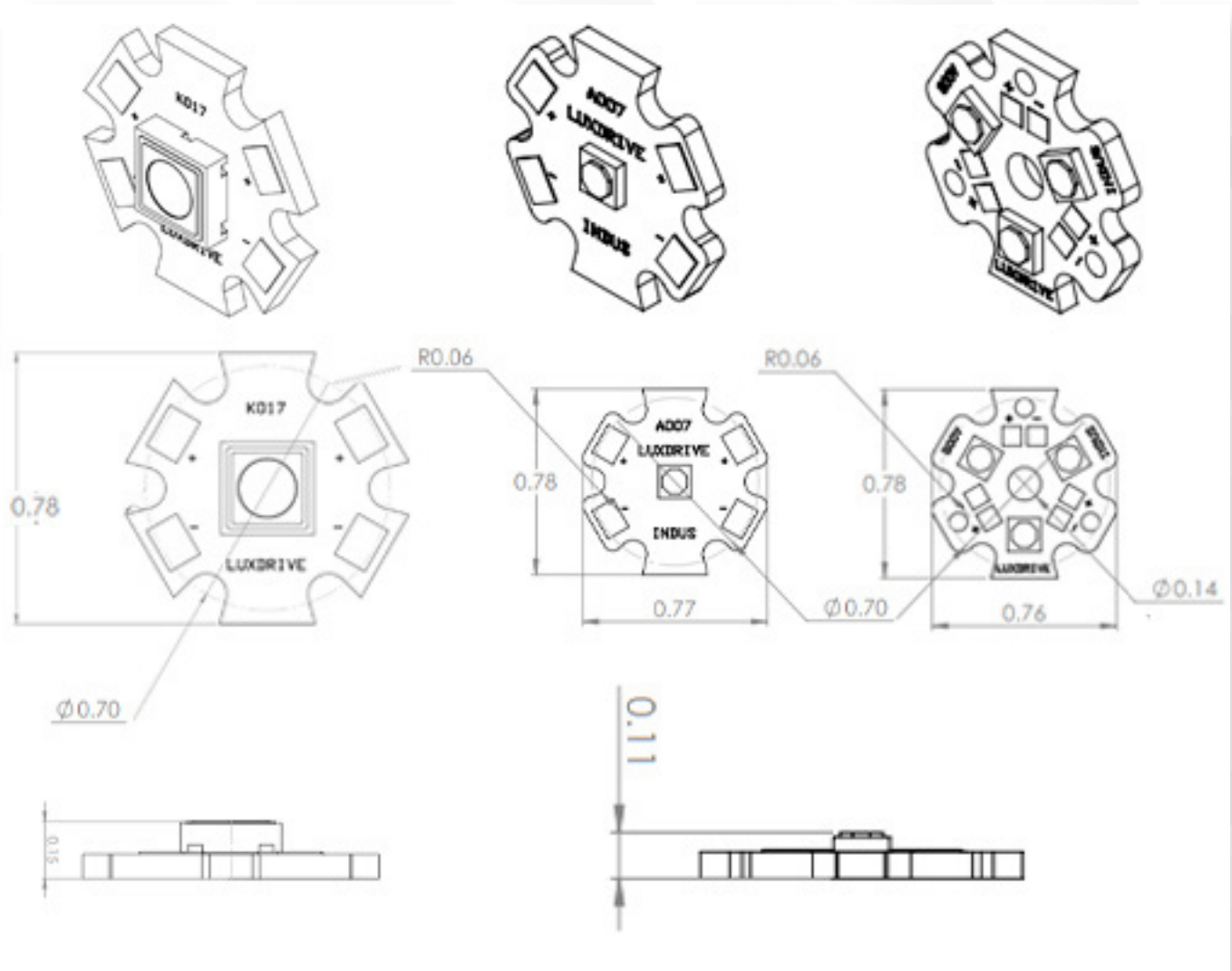
## MAXIMUM RATINGS

LED	DC Current (mA)	Typ. Viewing Angle	Thermal Resistance (°C/W)*
Nichia	1050	120°	9.4°
Seoul Viosys	200	125°	1-up: 32°   3-up: 11.33°

\*LED junction to bottom of starboard (MCPCB), measured in °C/W

## UV-C HIGH POWER LED STARS

### Mechanical Drawings



### Accessories for High Power UV-C LED Stars

#### LED Drivers

LUXdrive™ offers a line of drivers designed for use with high-power LED modules. The choice of driver will depend on number of LEDs to be driven, the input voltage source, and the desired forward drive current. See the full line of Luxdrive drivers [here](#).

#### Heat Sinking & Mounting

LEDdynamics LED stars have six mounting points for #4 screws. The LED stars should be attached to additional heat sinking for proper thermal management. A specialty heatsink or metal plate (copper or aluminum) should be used with a thermal interface material.

LUXDrive Thermal Adhesives	Star #	Compatibility
A001-010H Hexatherm thermal adhesive	10	20mm Stars
A001-100H Hexatherm thermal adhesive	100	