



## CBT-90 Big Chip White LED



### Description

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Designed for high brightness specialty lighting applications, the CBT-90 is engineered for illumination systems that require maximum lumens/mm<sup>2</sup> at the source. Featuring a low profile window and direct chip-to-air emission, the CBT-90 is optimized for coupling to proximity optics and optical fiber.

### Features & Benefits

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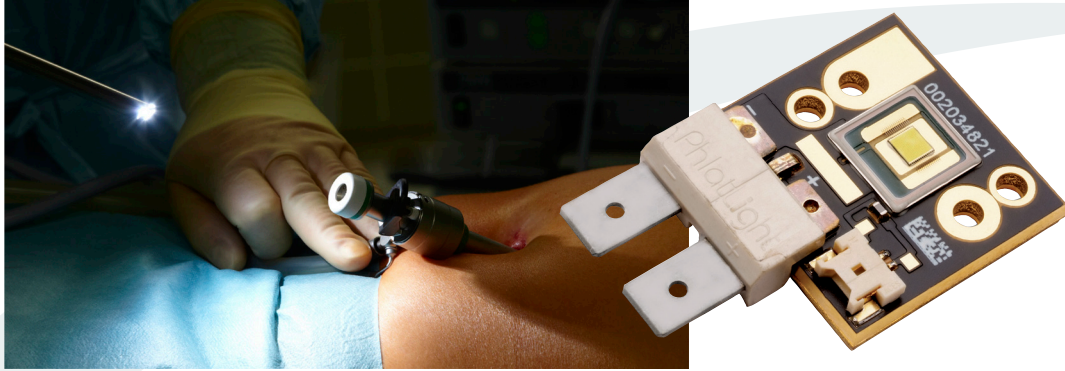
- Over 2,500 lumens
- Thermal resistance of only 0.92 °C/W
- Lumen maintenance of greater than 70% after 60,000 hours
- Environmentally friendly: RoHS compliant
- Variable drive currents: 1.0A – 13.5 A
- High reliability

### Applications

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- Medical illumination
- Fiber Coupled Illumination
- Entertainment Wash Lighting
- Projection Display
- Microscopy
- Automotive Forward Lighting

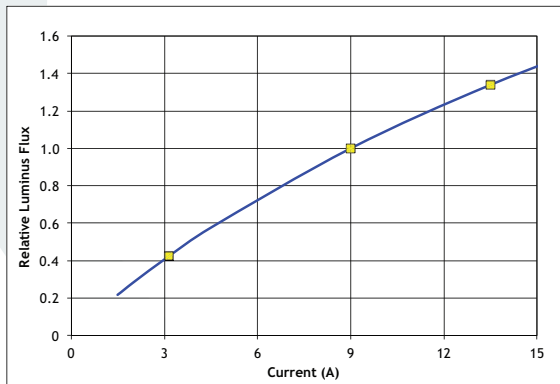
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## Product Performance

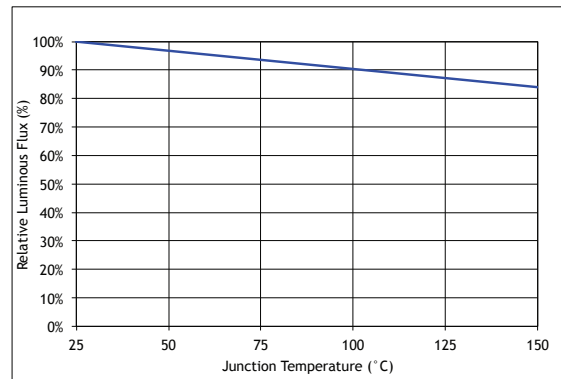
Product	Max. Lumens	Color	Input Power	Typical Voltage, Current
CBT-90	2,500	5,700K to 6,500K	3W to 60W	3.6V, 9.0A

## Relative Luminous Flux vs. Forward Current ( $T_j = 25^\circ\text{C}$ )



Yellow squares indicate reference drive conditions

## Relative Luminous Flux vs. Junction Temperature ( $I_f = 1.0\text{A}$ )



## Where to Buy

### North America:

Avnet Electronics Marketing  
Tel: +1 480.643.8329  
phlatlight@avnet.com  
www.em.avnet.com

Mouser Electronics, Inc.  
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### Europe, Middle East, Africa:

EBV Elektronik GmbH & Co.KG  
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### Japan:

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