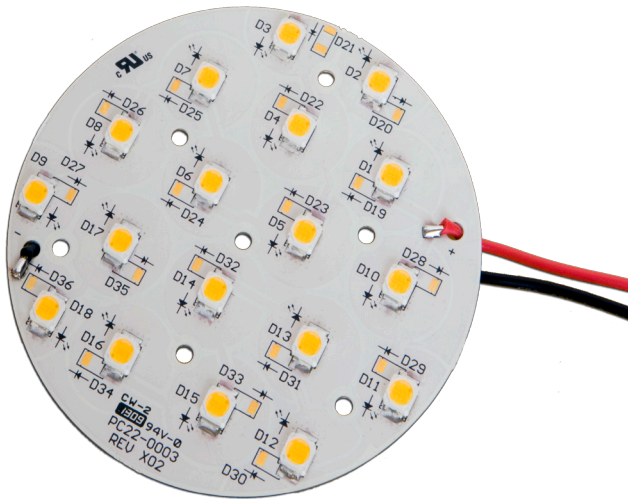


**Features & Benefits**

- Patented intelligent thermal design
- Constant current design
- Includes thermal conductive pad
- Includes mounting holes for mechanical attachment
- Pre-wired leads
- Available in different LED colors
- Easily configured into existing and new luminaires
- Can be used for requirements of CA Title 24, ENERGY STAR and other green initiatives



**Compatible Brillia LED Drivers**

Magtech LP1025-36-C0620 ..... See driver specifications

**Ratings and Specifications**

Input Requirements ..... 700mA max.  
 DC Power Consumption ..... 17.5W max.  
 Estimated Life for White LED @  $T_j \leq +90^\circ\text{C}$  ..... 40,000 hours, 70% lumen maintenance  
 Maximum Operating Ambient Temperature ( $T_a$ ) .....  $+50^\circ\text{C}$   
 \*Recommended Maximum Operating Junction Temperature ( $T_j$ ) .....  $+90^\circ\text{C}$   
 Weight ..... 20 grams  
 Wire Specifications ..... 12" of 20AWG wire, 105C rating  
 Listings/recognitions ..... UL Recognition of this component is in process, consult factory for status

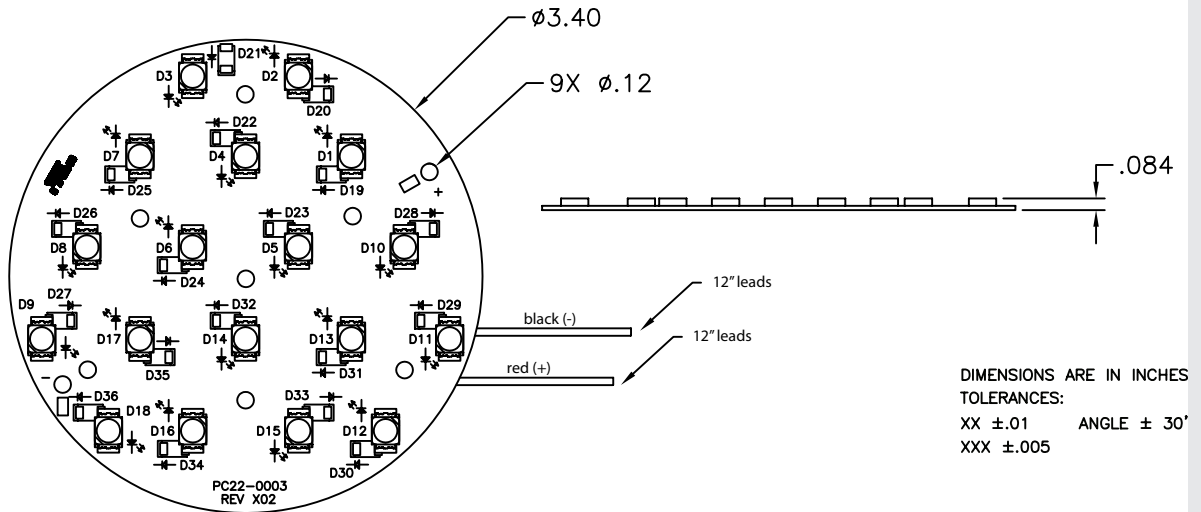
**Engineering Notes**

The BB18 AF series LED modules are designed for use with the Brillia LED drivers shown above. This design utilizes a FR4 printed circuit board and features a UL-recognized LED module design with pre-soldered leads for electrical connection and attachment to the remote LED driver. 0.125" dia. holes are included for mechanical attachment. Maximum recommended screw head diameter is 0.250". Included with each LED module is a high-performance thermal conductive pad that is designed to be positioned between the module and the fixture housing.

\*The proper LED Junction Temperature ( $T_j$ ) is critical to ensure long life. Therefore, careful design consideration is required for factors such as ambient conditions (weather and surrounding atmosphere in fixture) and proximity to other heat sources such as LED drivers and other LED modules.



## Physical Dimensions



Part Number	LED Package Series	Nominal Values CCT Color Temp. (Kelvin)	Sample Values Light Output (Lumens)	Sample Values Efficacy (Lumens per Watt)	Sample Values CRI*	Nominal Beam Angle (Degrees)
BB18AF-20201-120020-01	Nichia 083B (SW27)	2725	1041	55	68	120
BB18AF-21201-120020-01	Nichia 083B (SW35)	3500	1225**	64**	72**	120
BB18AF-C0201-120020-02	Nichia 083B (Cbins)	5100	1409	74	78	120

\* Higher CRI available by special order

\*\*Actual sample values of Light Engine tested to LM79 with Magtech driver and sample heatsink

### Options: [sales@brillialed.com](mailto:sales@brillialed.com)

Other LED colors, high CRI or LED manufacturers .....please email [sales@brillialed.com](mailto:sales@brillialed.com)

### Warranty

3 Year Limited warranty from date of manufacture with compatible Brillia LED driver for a maximum operating Tj of the LED module at 90 °C .....see [www.brillialed.com](http://www.brillialed.com) for additional conditions

### Additional Information