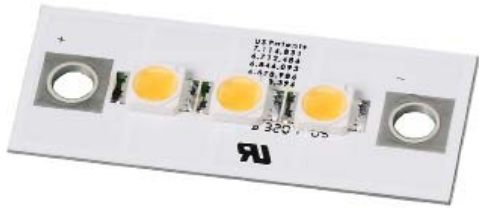


Features & Benefits

- Constant current design
- Patented “sandwich” design uses customer-supplied heatsink and integral mechanical and electrical interfaces to eliminate wiring harness
- Patented intelligent thermal design uses metal core board (MCPCB)
- Includes mounting holes for mechanical attachment
- Easily configured into existing and new luminaires
- Available in a variety of color temperatures
- Can be used to meet the requirements of CA Title 24, ENERGY STAR® and other green initiatives



Required Brillia LED Drivers

AI1250 Series, BL25 Series..... See Brillia LED driver specifications

Ratings and Performance Specifications

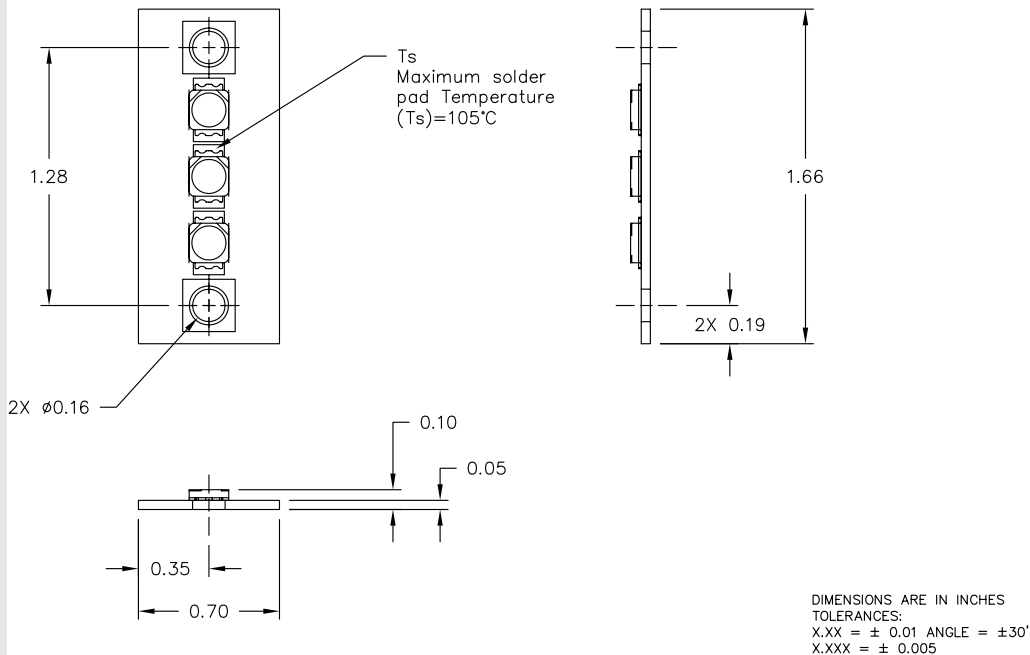
Nominal DC Power Consumption @ 350mA DC.....	3.4W
Maximum Input Requirements.....	350mA DC
Maximum Operating Range Ambient Temperature (Ta)	-40 to +50 °C
Maximum Solder Pad Temperature (Ts)	+105 °C
Maximum Screw Installation Torque.....	50 inch-ounces
Estimated Lumen Depreciation (LM80 standard)	70% of initial lumens (L ₇₀) at 40,000 hours
Maximum Weight	3 grams
Safety/Compliance	
UL Class 2 Recognized Component E321468	
RoHs compliant	

Application Notes

1. The use of any washer (lock, flat, etc.) with the specified truss head screw will void the warranty due to possible damage and/or shorting to the circuit board.
2. This “sandwich style” LED module makes electrical and mechanical connection with Brillia LED drivers by 4-40 x 3/8” truss head screws and isolation bushings. The screw heads must be a minimum diameter of 0.250” in order to seat properly on the module and not damage the contacts. Brillia recommends the use of an aluminum or equivalent heatsink “sandwiched” between the LED module and driver with a nominal thickness of 0.080”. For thicker heatsinks, longer screws can be used, however caution must be used not to bottom-out and damage the internal PC board of the driver. The isolation bushings must be McMaster Carr 91145A129 or Brillia PC61-0002 or equivalent dimensions and material.
3. The proper LED Solder Pad Temperature (Ts) is critical to ensure long life. Careful design consideration required for factors such as ambient conditions (for example weather and surrounding atmosphere inside exterior luminaires) and proximity to other heat sources such as other LED modules and heat generating LED drivers.
4. Abnormal operating conditions such as high humidity or elevated operating temperatures can be expected to negatively impact lumen output, product lifetime, or product performance.



Physical Dimensions



Part Number	Nichia NS3x183 LED Package Bin	Nominal Values CCT Color Temp. (Kelvin)	Sample Values Light Output ^[2] (Lumens)	Sample Values Efficacy ^[2] (LPW)	Sample Values CRI ^[1]	Nominal Beam Angle (Degrees)
BB03BF-20031-0000XX-01	SW27	2700	210	62	80	120
BB03BF-21031-0000XX-01	SW35	3500	250	73	80	120
BB03BF-C0031-0000XX-01	C1/C2	5100	280	82	70	120

¹Higher CRI available by special order
²Sample value when used with compatible Brillia LED driver and sample heatsink

Options: sales@brillialed.com

Other LED colors or LED manufacturers availableplease email sales@brillialed.com

Packaging

Modules are marked with abbreviated SKU and lot traceability information on non-LED side of module. Modules are sold 80 per panel (sheet form) and packaged in ESD bags with SKU and lot traceability information.

Warranty

3 Year limited warranty in accordance with Brillia published warranty. Product must be used with compatible Brillia components (modules, drivers, engines and/or accessories) and no maximum ratings (such as Ts) shall be exceeded during any expected operating conditions of the system.

Permlight Products Inc. holds the following United States patents of which one or more may be applicable to the design and/or manufacture of this product. Additional granted patents, patents pending and other intellectual property protection rights may apply to this product.

United States Patents: 6712486, 6578986, 6846093, 7114831, 7306353, 7108396, 7387406, 7595740

United States Patents: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7582911, 7649327