



LINE VOLTAGE MODULE

Features and Benefits

- Line voltage LED's require no separate driver eliminating a potential failure source
- 2 1/2" diameter designed to fit into Jelly Jar and RLM luminaires
- Protective transparent coating
- Patented intelligent thermal design uses metal core printed circuit board (MCPCB) for better heat transfer
- Includes high performance adhesive heat transfer tape
- Includes mounting locations for mechanical attachment and includes pre-wired leads
- Can be used to meet the requirements of CA Title 24 ENERGY STAR® and other green initiatives



Ratings and Performance Specifications

Nominal Power Consumption @ 120VAC.....	21W
Input Requirements	TBD
Maximum Pad Temperature (Ts)	65 °C
Estimated Lumen Depreciation (LM80 standard)	70% of initial lumens (L ₇₀) at 40,000 hours
Maximum Weight	45 grams
Safety/Compliance	
Approvals pending	

Application Notes

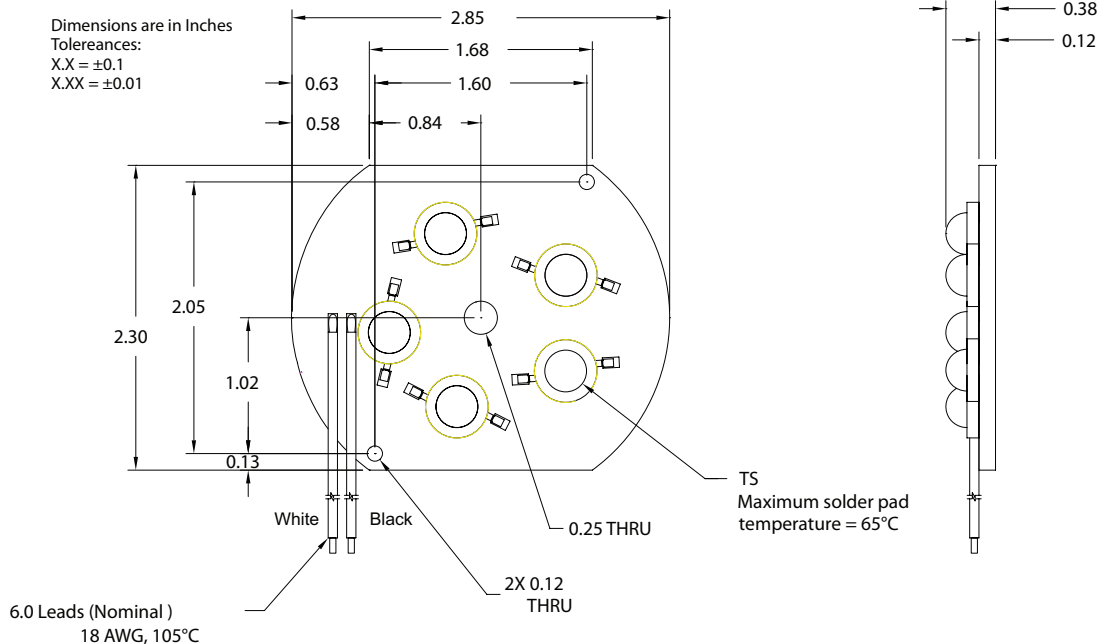
1. The use of any washer (lock, flat, etc.) will void the warranty due to possible damage and/or shorting to the circuit board.
2. The best thermal system performance is achieved by utilizing the supplied adhesive transfer tape between the module and heat sink.
3. The proper LED Pad Temperature (Tc) 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.
4. Abnormal operating conditions such as elevated operating temperatures can be expected to negatively impact lumen output, product lifetime, or product performance.

BB05 JJ Series

LED Module



Physical Dimensions



Part Number	Correlated Color Temperature ¹ (Kelvin)	Light Output ² (Lumens)	Efficacy ² (Lumens per Watt)	CRI ²	Beam Angle (Degrees)
BB05JJ-21W-AC120-R020C-1000-6K	6100	1225	59	66	130

¹Other chromaticities available upon request

²Nominal value when used with proper heat sink

Options

Other LED colors may be available consult factory

Packaging

Modules are marked with abbreviated SKU and lot traceability information on non-LED side of module. Modules are sold in groups of 20 units 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 no maximum ratings (such as Ts) 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, 7102172, 7108396, 7329024, 7387406, 7582911, 7582911, 7649327

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