

Small Format, High Output Module For Linear Applications

Features & Benefits

- Small 2.84" x 0.44" linear module for applications such as landscape, pathway, flood, step light and bollards
- Patented intelligent thermal design uses metal core printed circuit board (MCPCB) for thermal transfer and simple installation
- Latest generation LED for high efficacy and color consistency
- Includes mounting holes for mechanical attachment
- Pre-wired pigtailed are mechanically robust and reduce labor, can be run through center hole or around side of PCB
- Available in constant voltage 12VDC version BBO6DC.
- Compatible with Permlight drivers:
 - PS11 Series low voltage 12VAC landscape
 - PS3 Series 120VAC ELV dimmable



Compatible LED Drivers or Modules

Recommended Maximum DC Input Current to Module 350mADC
 Typical DC input Voltage to Module 9.4VDC

Ratings and Performance Specifications

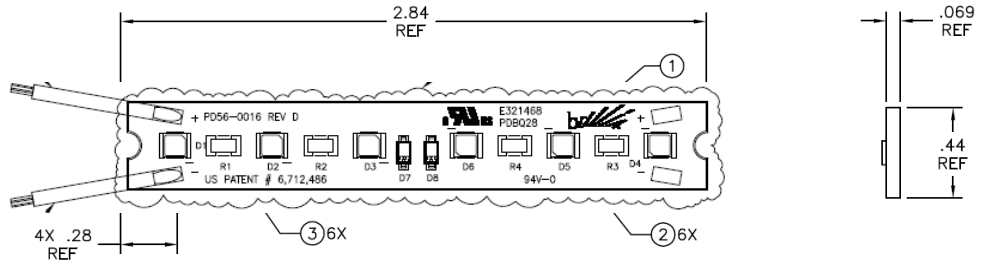
Nominal DC Power Consumption See Table I
 Recommended Screw Installation Torque 75 inch ounces
 Maximum Operating Range Ambient Temperature (Ta) -40 to +50°C
 Maximum Solder Pad Temperature (Ts) +105°C
 Estimated Lumen Depreciation (TM-21) 70% initial lumens (L70) @ 100,000 hours
 Nominal Weight 11 grams
 Safety/Compliance UL Class 2 Recognized Component..... E321468

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. This module requires a heat sink at full power for maximum performance. Care should be taken in the luminaire designs to allow heat to escape the system. Contact factory for thermal guidelines.
3. Abnormal operating conditions such as elevated ambient temperatures can be expected to negatively impact lumen output, product lifetime and/or performance.

BBO6HG Series

Physical Dimensions



white/red (+), gray (-)
 12" nominal length leads, 20AWG
 strip ends 0.063"
 Ts measurement point is cathode of either center LED
 Conformal coated top
 Peel and stick 3M 468 tape on back

Table 1, Performance Characteristics at 25C

Data from laboratory test measurements, actual results may vary.

Part Number	Nominal		Nominal	Nominal	Nominal
	CCT (Kelvin)	Minimum CRI	Light Output @ 310mA (Lumens)	Power Consumption @ 310mA (WDC)	Module Efficacy @ 310mA (DC LPW)
BB06HG-27	2700	80	405	2.9	140
BB06HG-30	3000	80	421	2.9	145
BB06HG-35	3500	80	434	2.9	150
BB06HG-40	4000	80	441	2.9	152
BB06HG-50	5000	80	481	2.9	166

@ 350mA, power consumption typically 3.3W, multiply lumens x 1.134.

Options available

Other CCT and CRI may be available on special order

Packaging

Product is marked with SKU and lot information on non-LED side of module.
 Sold in groups of (84) unit(s) and packaged in ESD bags with SKU and lot information.

Warranty

5-Year limited warranty in accordance with published warranty conditions. Product must be used with compatible 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. If product is used with other manufacturer's product, compatibility must be recognized in writing by Permlight Technologies.

Permlight Technologies owns the following United States patents of which one or more may be applicable to the design and/or manufacture of this product: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7649327, 8926145, 8729810. Additional granted patents, patents pending and other IP protection rights may apply.