

Six LED High Mount Stop Light Array

HPWG-N500

HPWG-N501

HPWG-N502

Benefits

- **Lowest Cost LED solution for HMSL applications**
- **Life of Vehicle Light Source**
- **Standard Design for Multiple Vehicle Applications**
- **Easy to Use**

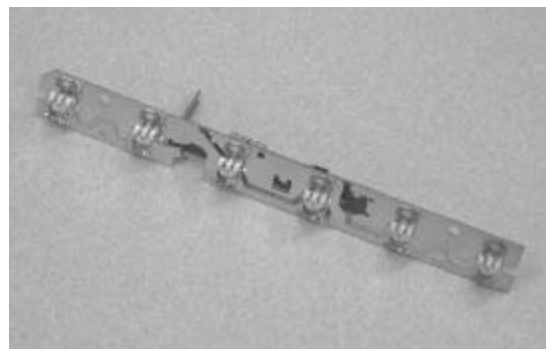
Features

- **Drive Circuitry and Connector Pins Included**
- **Compact, Low Profile Package**
- **Light Source Sufficient for SAE/ECE/JIS HMSL Requirements**

Description

Using LumiLed's patented solderless clinch technology and SnapLED emitters, this HMSL array is an integrated LED solution complete with drive circuitry. The product features an easy to use design and is the lowest solution cost for LED HMSLs.

There are three versions of the HMSL array to address different applications. The 15 lm array is intended for exterior mounted applications. The 23 and 31 lm arrays are intended for interior applications behind rear glass with or without privacy tinting.



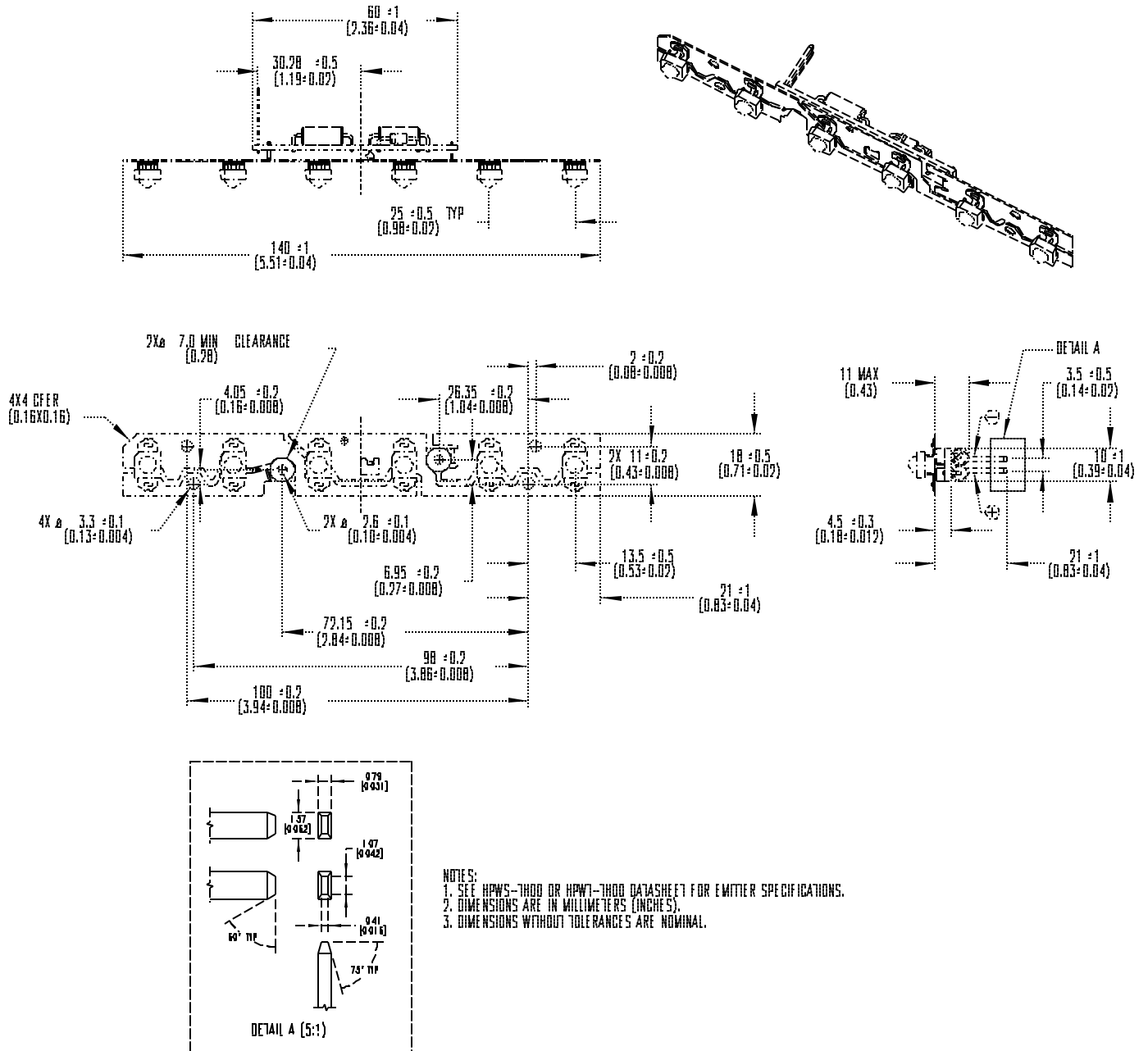
Selection Guide

Part Number	LED Color	Total Flux F_v (lm) Min. ^[1,2]	Total Flux F_v (lm) Max. ^[1,2]	Power Consumption (W) Typ.
HPWG-N500 with circuit board	TS AlInGaP Red-Orange	15	37.5	1.7
HPWG-N501 with circuit board	TS AlInGaP Red-Orange	23	61	3.2
HPWG-N502 with circuit board	TS AlInGaP Red-Orange	31	81	3.2

Notes:

1. Total integrated flux of the array at $V_{in} = 12.8\text{ V}$, $R_{\theta_{PIN-AMB}} = 100^\circ\text{C/W}$.
2. Φ_v is the total usable flux after adjustments for current derating and thermal effects.

Outline Drawing

Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Parameter	HPWG-N50x	Units
DC Input Operating Voltage	16	V
Power Dissipation	7.0	W
Reverse Voltage ($I_R = 200 \mu\text{A}$)	500	V
Operating Temperature Range	-40 to +90	$^\circ\text{C}$
Storage Temperature Range	-55 to +100	$^\circ\text{C}$
LED Junction Temperature	125	$^\circ\text{C}$
High Temperature Chamber	125 $^\circ\text{C}$, 2hrs.	

Optical and Electrical Characteristics

Device Type	Operational Forward Voltage V _F (Volts)		Color Dominant Wavelength λ _d (nm) ^[1,2]	
	Min.	Max.	Min.	Max.
HPWG-N502	9	16	611	634

Notes:

1. The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.
2. The dominant wavelength within any individual assembly will not vary by more than 8nm from emitter to emitter.

www.LumiLeds.com

For technical assistance or the location of your nearest
LumiLeds Lighting sales office, distributor, or representative.

Data subject to change.

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