Product Brief

SnapLED

High Mount Stop Light Assembly

The SnapLED High Mount Stop Light Assembly is an integrated linear Stop-Lamp LED solution with control circuitry on a high conductivity metal frame using Philips Lumileds' patented solderless clinch technology giving designers a simple way to create solutions with stunning looks, technology, and performance.

Designed for high mount stop light applications, the assembly is engineered with rugged, highly reliable features to meet the high requirements of automotive and transportation exterior signal lighting.

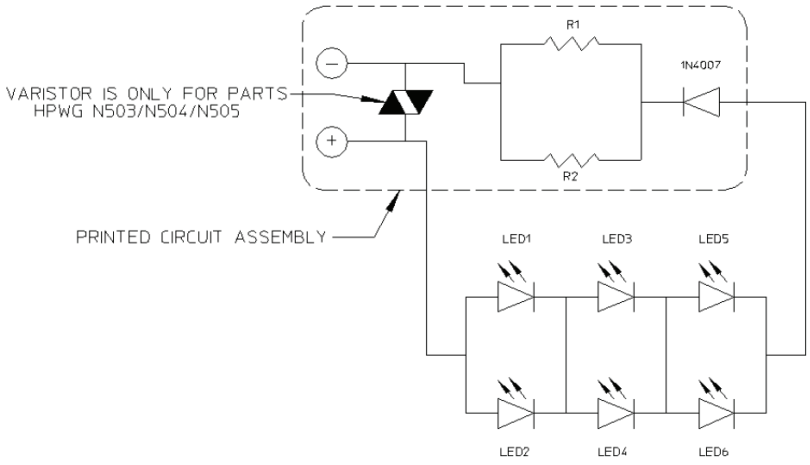
Features:

- Drive circuitry and connector pins included
- Rugged and reliable assembly
- Compact package
- Three power options and three flux output levels available
- LED to LED flux ratio is less than 2:1 for each assembly
- Meets SAE, ECE, JIS Stop/Tail specifications.

Benefits:

- Simpler design-in and reduced manufacturing costs
- Life of vehicle light source
- Enables slim styling options and design flexibility
- Power and output level options are adaptable to exterior mount or interior rear glass mount
- Low LED to LED flux ratio ensures brightness uniformity.

Circuit Schematic



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Selection Guide

Part Number	Description	Operational Forward Voltage V_F (Volts) min	max	Color Dominant Wavelength λd (nm) [1,2] min	max	Total Flux (lm) min	max	Power Consumption (W) min	max
HPWG-N500	HMSL with Pin Connector	9.0	16.0	611	634	19.0	30.0	1.6	1.9
HPWG-N501	HMSL with Pin Connector	9.0	16.0	611	634	28.0	45.0	3.1	3.5
HPWG-N502	HMSL with Pin Connector	9.0	16.0	611	634	36.0	58.0	3.1	3.5
HPWG-N503	HMSL with varistor and Hole Connector	9.0	16.0	611	634	19.0	30.0	1.6	1.9
HPWG-N504	HMSL with varistor and Hole Connector	9.0	16.0	611	634	28.0	45.0	3.1	3.5
HPWG-N505	HMSL with varistor and Hole Connector	9.0	16.0	611	634	36.0	58.0	3.1	3.5
HPWG-N506	HMSL with Wire Connector	9.0	16.0	611	634	19.0	30.0	1.6	1.9
HPWG-N507	HMSL with Wire Connector	9.0	16.0	611	634	28.0	45.0	3.1	3.5
HPWG-N508	HMSL with Wire Connector	9.0	16.0	611	634	36.0	58.0	3.1	3.5
HPWG-N550	HMSL with Narrow Angle Light Beam	9.0	16.0	611	634	19.0	30.0	1.6	1.9
HPWG-N551	HMSL with Narrow Angle Light Beam	9.0	16.0	611	634	28.0	45.0	3.1	3.5
HPWG-N552	HMSL with Narrow Angle Light Beam	9.0	16.0	611	634	36.0	58.0	3.1	3.5
HPWG-N556	HMSL with Narrow Angle and Wire Connector	9.0	16.0	611	634	19.0	30.0	1.6	1.9
HPWG-N557	HMSL with Narrow Angle and Wire Connector	9.0	16.0	611	634	28.0	45.0	3.1	3.5

Note: 16V operation is allowed at $T_{ambient}$ = 25°C only.

1. The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.
2. The dominant wavelength does not vary between emitters by more than 8nm within the same assembly.

Absolute Maximum Ratings at T_A = 25°C

Parameter	Rating
DC Input Operating Voltage [1]	16V
Power Dissipation	7.0W
Reverse Voltage	500V @ I_R=200μ_A
Operating Temperature Range (12.8V-13.5V)	-40°C to +85°C
Storage Temperature Range	-55°C to +100°C
LED Junction Temperature	125°C
High Temperature Chamber	125°C (2 hrs)

Note 1: 16V operation is allowed at $T_{ambient}$ = 25°C only.

For complete product information please refer to datasheet DS29.