

1.0X0.5mm SMD CHIP LED LAMP

Part Number: APHHS1005LSECK/J3-PF Hyper Red

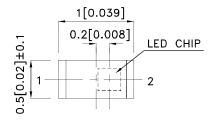
Features

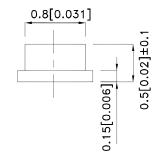
- 1.0mmx0.5mm SMD LED, 0.5mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

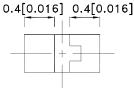
Description

The Hyper Red device is based on light emitting diode chip made from AlGaInP.

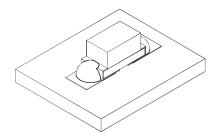
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
	- ' '		Min.	Тур.	201/2
ADULISADOFI SECIZIO DE	Lhyper Ded (AlCelpD)	Motor Clear	30	80	400°
APHHS1005LSECK/J3-PF	Hyper Red (AlGaInP)	Water Clear	*15	*35	120°

Notes:

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

 2. Luminous intensity / luminous Flux: +/-15%.

 * Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Min.	Тур.	Max.	Units	Test Condi- tions
λpeak	Peak Wavelength	Hyper Red		640		nm	IF=2mA
λD [1]	Dominant Wavelength	Hyper Red		625		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Hyper Red		20		nm	IF=2mA
С	Capacitance	Hyper Red		27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.5	1.8	2.1	V	IF=2mA
lR	Reverse Current	Hyper Red			10	uA	VR=5V

Notes:

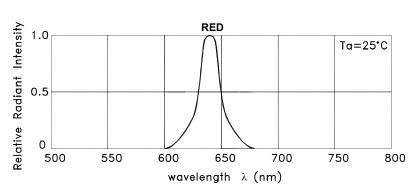
- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
raiailletei	values	Offits	
Power dissipation	63	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5		
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

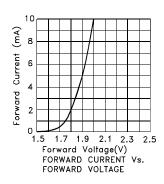
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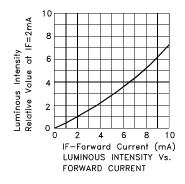


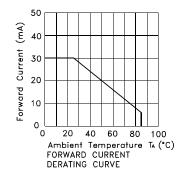
RELATIVE INTENSITY Vs. WAVELENGTH

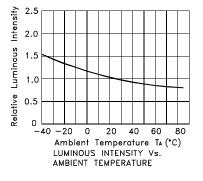
Hyper Red

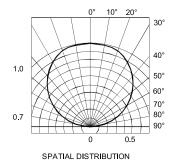
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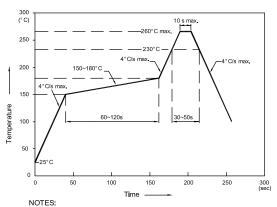


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.

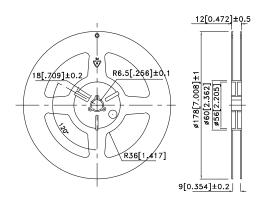


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

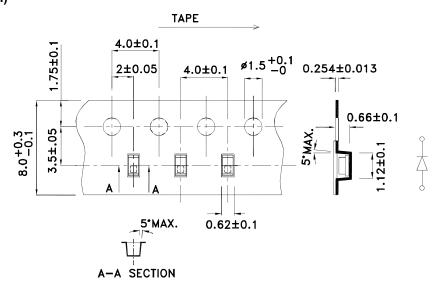
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.4

Reel Dimension



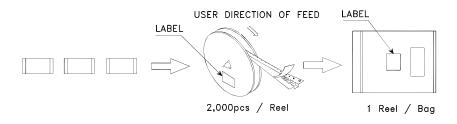
Tape Dimensions (Units: mm)

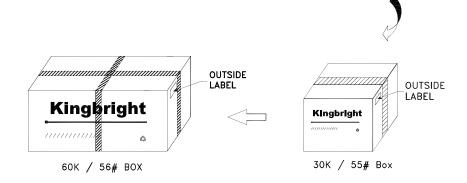


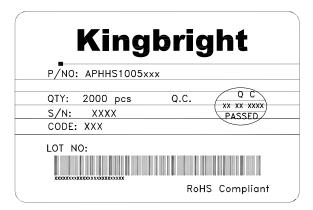
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PACKING & LABEL SPECIFICATIONS

APHHS1005LSECK/J3-PF







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