

PRELIMINARY SPEC

Part Number: WP7113WYP/SEC/J3

Hyper Orange

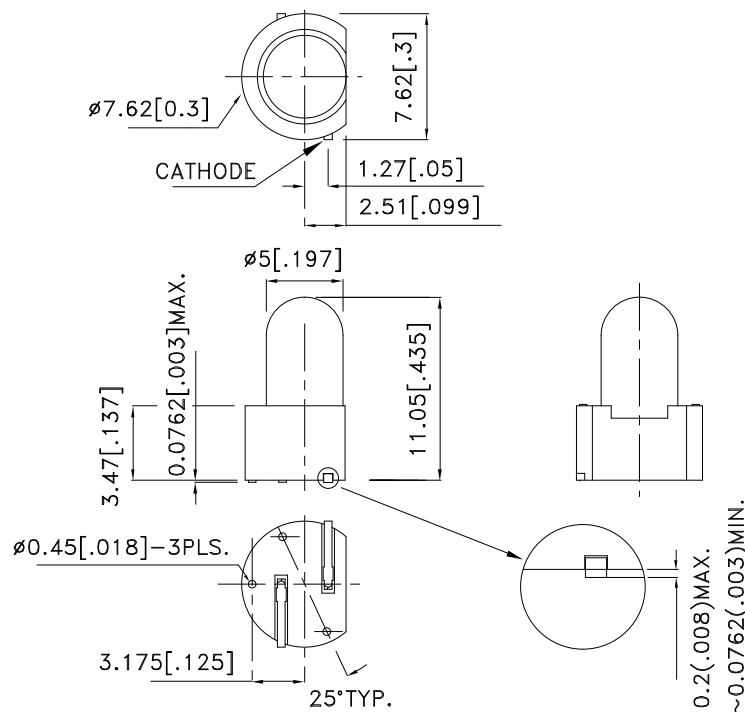
Features

- Outstanding material efficiency.
- Reliable and rugged.
- Low current capability.
- Package : 65 pcs/tube.
- Housing material: PPA.
- High temperature resistant housing.
- High glass transition temperature epoxy.
- RoHS compliant.

Description

The Hyper Orange device is based on light emitting diode chip made from AlInGaP.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25 (0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP7113WYP/SEC/J3	Hyper Orange (AlInGaP)	WATER CLEAR	6700	12000	20°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Hyper Orange	640		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	Hyper Orange	625		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Hyper Orange	25		nm	I _F =20mA
C	Capacitance	Hyper Orange	27		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Hyper Orange	2.2	2.8	V	I _F =20mA
I _R	Reverse Current	Hyper Orange		10	uA	V _R = 5V

Notes:

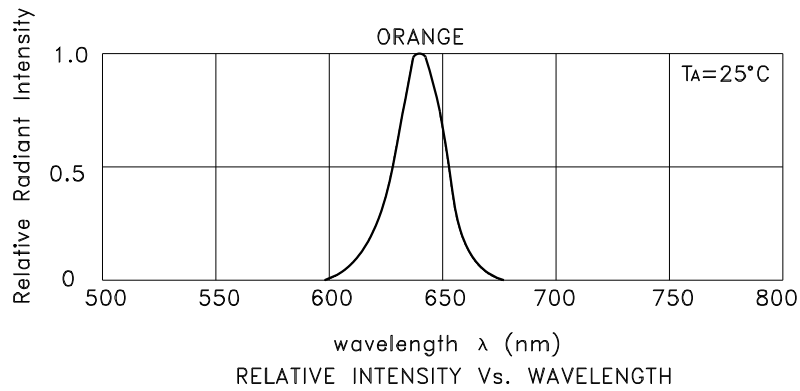
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Orange	Units
Power dissipation	84	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

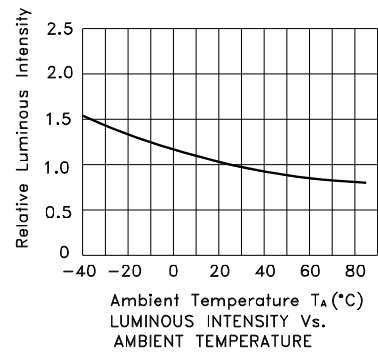
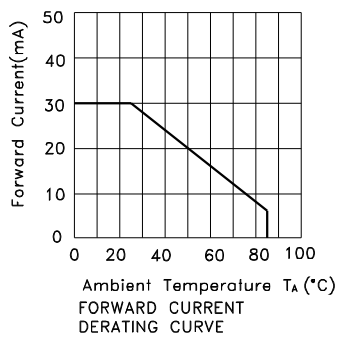
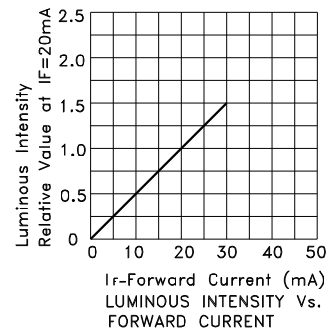
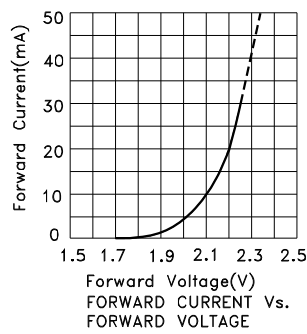
Note:

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



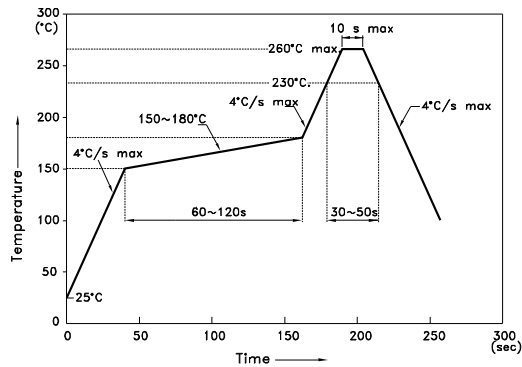
Hyper Orange

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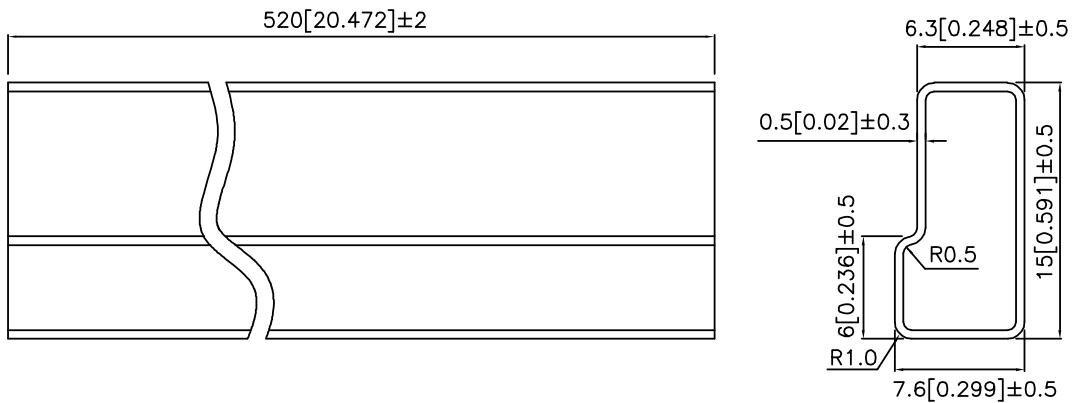
Reflow Soldering Profile For Lead-free SMT Process.



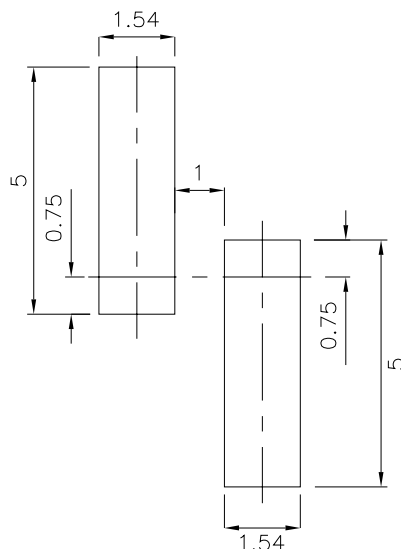
NOTES:

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.

WP7113WYP/SEC/J3 IC Tube Dimensions

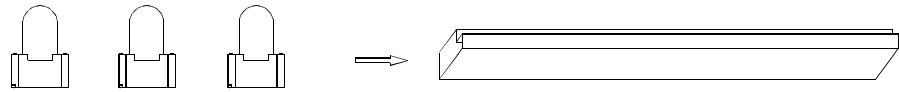


Recommended Soldering Pattern (Units : mm; Tolerance: ±0.1)

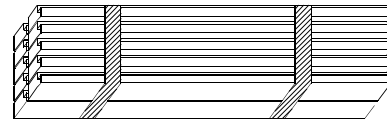


PACKING & LABEL SPECIFICATIONS

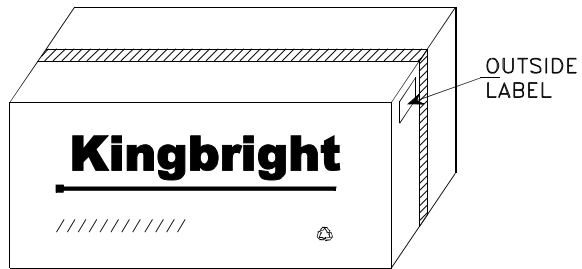
WP7113WYP/SEC/J3



65PCS / IC TUBE



650PCS / 10PCS IC TUBE



11.7K / 10# BOX

<h2 style="margin: 0;">Kingbright</h2>		
P/NO: WP7113WYPxxx		
QTY: 650 pcs	Q.C.	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="font-size: 8px; margin-bottom: 2px;">Q C</div> <div style="font-size: 8px; margin-bottom: 2px;">XX XX XXXX</div> <div style="font-size: 8px; margin-bottom: 2px;">PASSED</div> </div>
S/N: XXXX		
CODE: XXX		
LOT NO:		
XXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		