

# High Power Warm White LED SPECIFICATIONS

Please print this page to avoid ordering errors. LEDs and reflectors are not returnable.

## Characteristics:

High Power Warm White LEDs  
 Lens Color: Clear  
 Half Angle (2  $\theta$  1/2) : 20°  
 Superior Weather Resistance  
 UV Resistant  
 Epoxy

## Applications:

Railroad signals, advertising signs, indicators, LCD back lights; Illuminations

### ■ Color Rank

(If=20mA, Ta=25°C)

	Rank d			
x	0.44	0.44	0.50	0.50
y	0.40	0.50	0.50	0.40

※ Measurement Uncertainty of the Color Coordinates : ±0.02

## Maximum Ratings (Ta = 25° C)

Characteristic	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	$I_F$	30	mA
Pulse Forward Current*	$I_{FP}$	100	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation**	$P_D$	120	mW
Operating Temperature	$T_{opr}$	-30 ~ +85	°C
Storage Temperature	$T_{stg}$	-40 ~ +100	°C

\* Pulse width max 10ms Duty Ratio Max 1/10

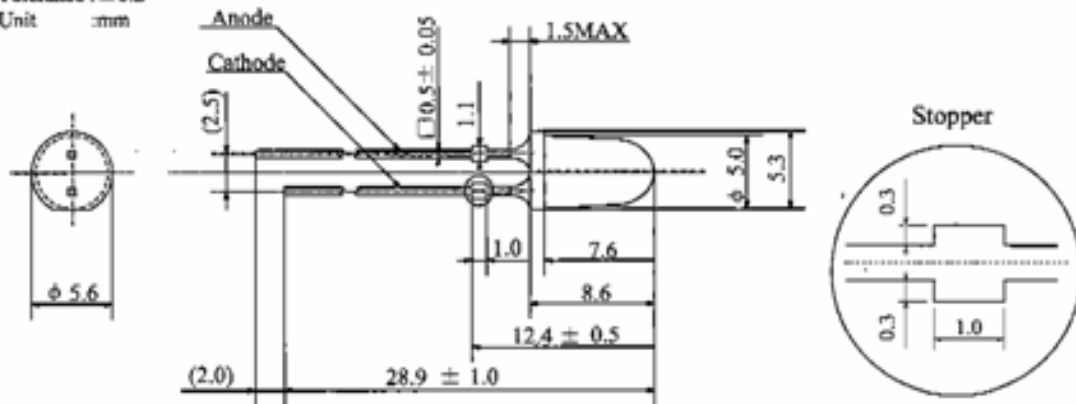
### Opto-Electrical Characteristics (Ta = 25° C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
DC Forward Voltage	$V_F$	IF = 20mA	--	3.6	4.0	V
DC Reverse Current	$I_R$	VR = 5V	--	--	50	mA
Luminous Intensity	$I_v$	IF = 20 mA	--	2.00	--	cd
Chromacity Coordinates*	x	IF = 20 mA	--	0.47	--	--
Chromacity Coordinates*	y	IF = 20 mA	--	0.45	--	--

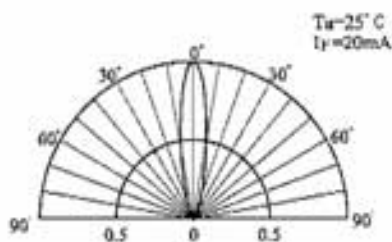
\* Please refer to CIE 1931 chromacity diagram

#### ■ Outline Dimension

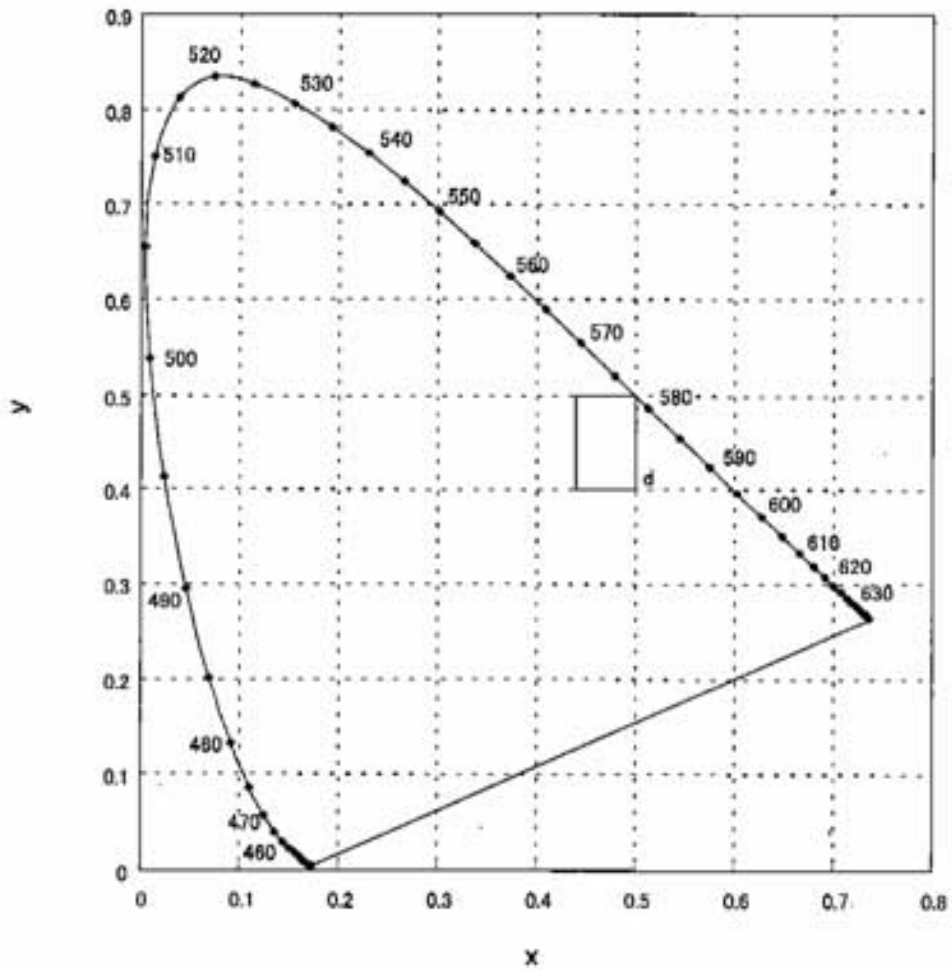
Tolerance : ±0.2  
Unit : mm



#### ■ Directivity



■ ICI Chromaticity Diagram



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