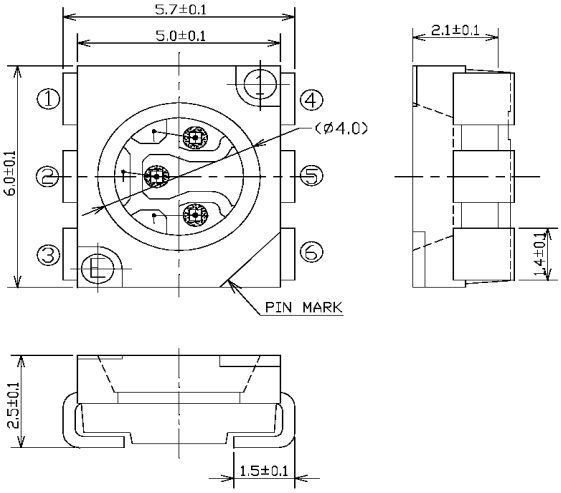
COTCO

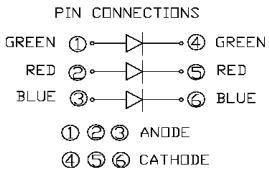
RGB TOPLED LED

LP6−TPP1−01



Applications

Indoor and Outdoor Displays
Backlighting
Camera Flash
RGB Full Color Displays



Unit: mm

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.			Unit
		RD	UBPG	BLU	
Forward Current	I_F	80	80	80	mA
Reverse Voltage	V_R	5	5	5	V
Power Dissipation	P_D	260.00	410.00	410.00	mW
Operating Temperature	T_{opr}	−40 ~ +100	−40 ~ +100	−40 ~ +100	°C
Storage Temperature	T_{stg}	−40 ~ +100	−40 ~ +100	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	260	260	°C
Soldering Time	−	for 3 sec. max	for 3 sec. max	for 3 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min			Typ			Max			Unit
			RD	UBPG	BLU	RD	UBPG	BLU	RD	UBPG	BLU	
Forward Voltage	V_F	I_F=50mA	−	−	−	2.60	4.50	4.50	3.20	5.10	5.10	V
Reverse Current	I_R	V_R=5V	−	−	−	−	−	−	10	10	10	μA
Luminous Intensity	I_V	I_F=50mA	710.00	710.00	180.00	1000.00	900.00	280.00	−	−	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	−	−	120°	120°	120°	−	−	−	deg.
Peak Wavelength	λp	I_F=50mA	−	−	−	615	520	468	−	−	−	nm
Dominant Wavelength	λd	I_F=50mA	−	−	−	610	525	470	−	−	−	nm
Spectral Line Half Width	Δλ	I_F=50mA	−	−	−	23	38	26	−	−	−	nm

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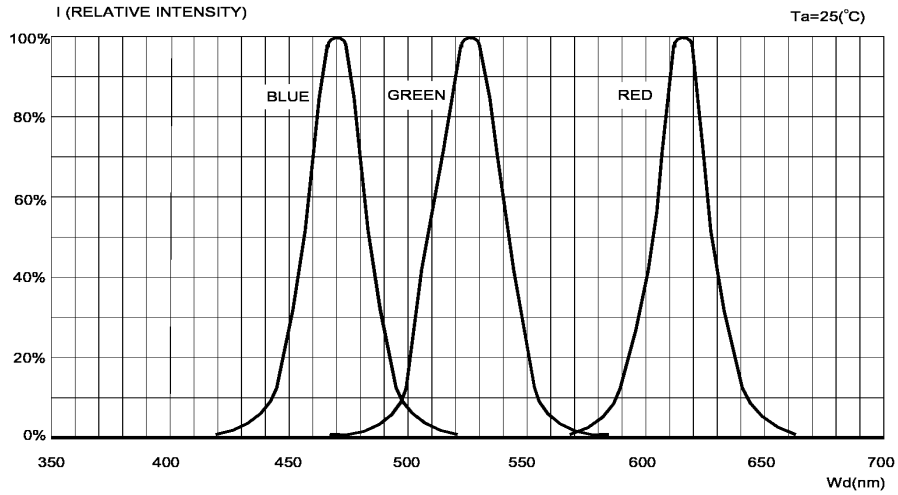
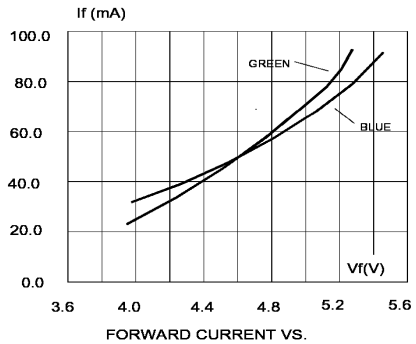
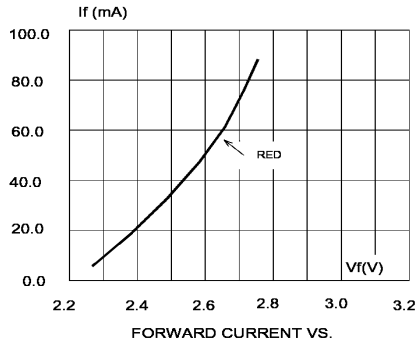


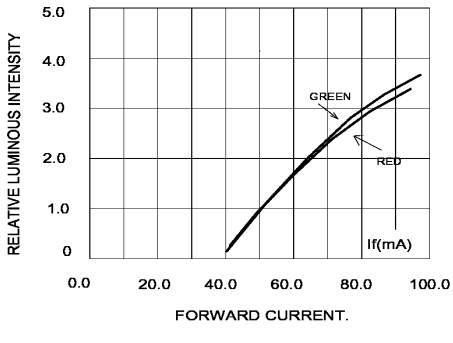
RELATIVE INTENSITY VS, DOMINANT WAVE LENGTH



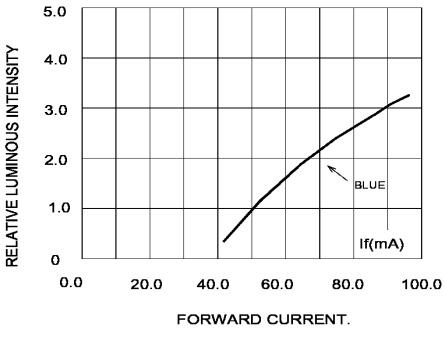
FORWARD CURRENT VS. FORWARD VOLTAGE.



FORWARD CURRENT VS. FORWARD VOLTAGE.



FORWARD CURRENT.



FORWARD CURRENT.

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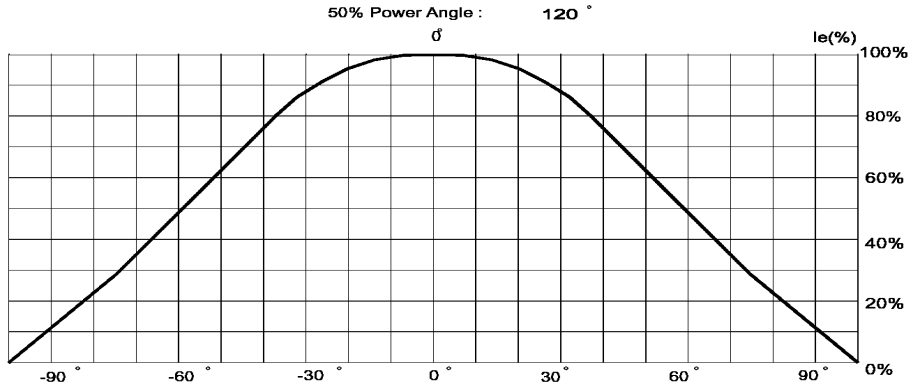
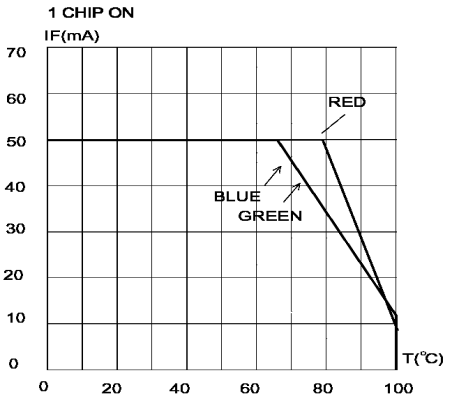
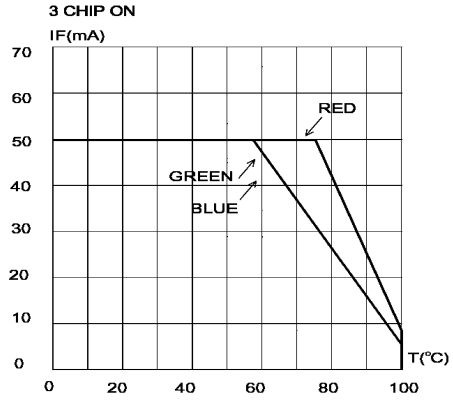


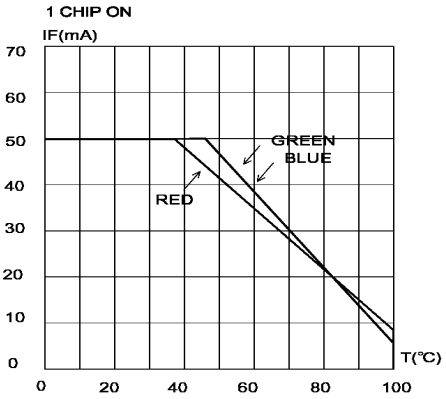
FAR FIELD PATTERN



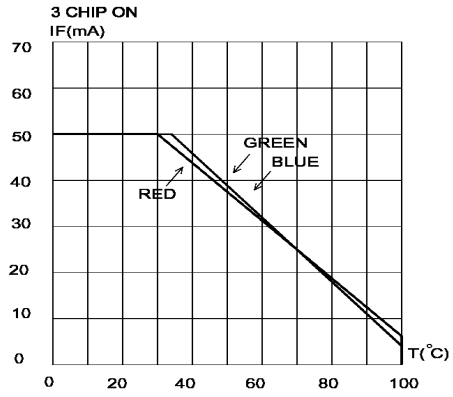
MAXIMUM FORWARD DC CURRENT
VS, SOLDER POINT TEMPERATURE.



MAXIMUM FORWARD DC CURRENT
VS, SOLDER POINT TEMPERATURE.



MAXIMUM FORWARD DC CURRENT
VS, AMBIENT TEMPERATURE.



MAXIMUM FORWARD DC CURRENT
VS, AMBIENT TEMPERATURE.

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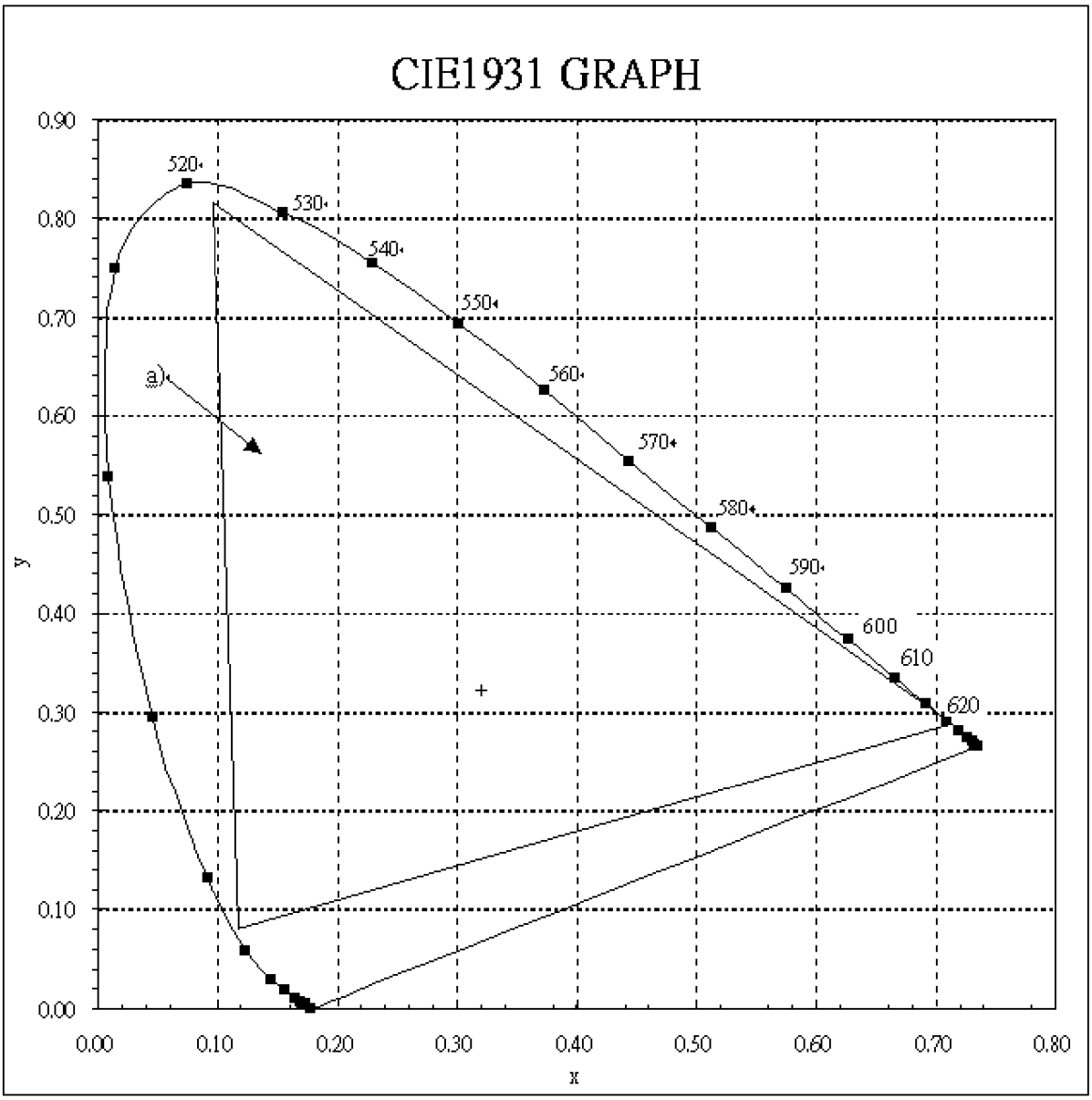

the color coordinates of the mixed light can be expected within the area of the color triangle marked a).

the achromatic point (x=0.33,y=0.33) is marked"+"

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