

# High efficiency, single-digit numeric displays

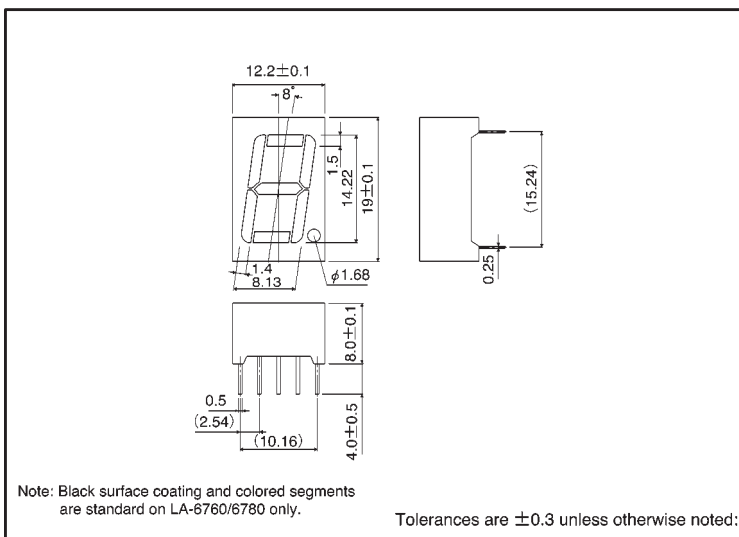
## LA-6000 Series

The LA-6000 series are LED numeric displays designed to be used in bright locations. Red, orange, yellow and green are available, and they are suitable for use in a wide range of applications.

### ●Features

- 1) Height of character : 14.22 mm.
- 2) Common anode and common cathode configurations are available for each color.
- 3) Each segment has independent pin connections making static drive possible.
- 4) High efficiency reflectors are used to achieve a bright, clear display.
- 5) The package surface is painted gray and the segments are milky white.

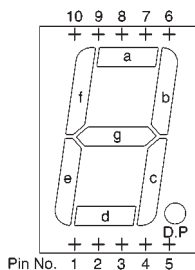
### ●External dimensions (Units: mm)



### ●Selection guide

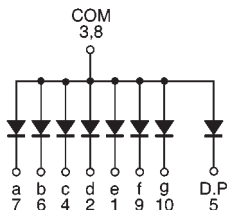
Emitting color	Red	Orange	Yellow	Green
Common				
Anode	LA-6760	LA-6660	LA-6860	LA-6460
Cathode	LA-6780	LA-6680	LA-6880	LA-6480

### ●Pin assignments



Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P.
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

● Internal circuit schematic (example of common anode)



● Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
		LB-6710 / 6740	LB-6610 / 6640	LB-6810 / 6840	LB-6410 / 6440	
Power dissipation	$P_D$	960	960	960	960	mW
Power dissipation	$P_D / \text{seg}$	60	60	60	60	mW
Forward current	$I_F$	20	20	20	20	mA
Peak forward current	$I_{FP}$	60*	60*	60*	60*	mA
Reverse voltage	$V_R$	5	5	5	5	V
Operating temperature	$T_{opr}$	$-25 \sim +85$				$^\circ\text{C}$
Storage temperature	$T_{stg}$	$-30 \sim +100$				$^\circ\text{C}$

\* Pulse width 1ms duty 1 / 5

● Electrical and optical characteristics ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Red			Orange			Yellow			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	$V_F$	$I_F = 10\text{mA}$	—	2.0	2.8	—	2.0	2.8	—	2.1	2.8	—	2.1	2.8	V
Reverse current	$I_R$	$V_R = 5\text{V}$	—	—	100	—	—	100	—	—	100	—	—	100	$\mu\text{A}$
Peak wavelength	$\lambda_P$	$I_F = 10\text{mA}$	—	650	—	—	610	—	—	585	—	—	563	—	nm
Spectral line half width	$\Delta \lambda$	$I_F = 10\text{mA}$	—	40	—	—	40	—	—	40	—	—	40	—	nm

◎ Not designed for radiation resistance.

● Luminous intensity

Color	$\lambda_P$	Type	Min.	Typ.	Max.	Unit
Red	650	LA-6760	3.6	10	—	mcd
		LA-6780				
Orange	610	LA-6660	3.6	10	—	mcd
		LA-6680				
Yellow	585	LA-6860	3.6	10	—	mcd
		LA-6880				
Green	563	LA-6460	9	25	—	mcd
		LA-6480				

Note: Measured at  $I_F = 10\text{mA}$