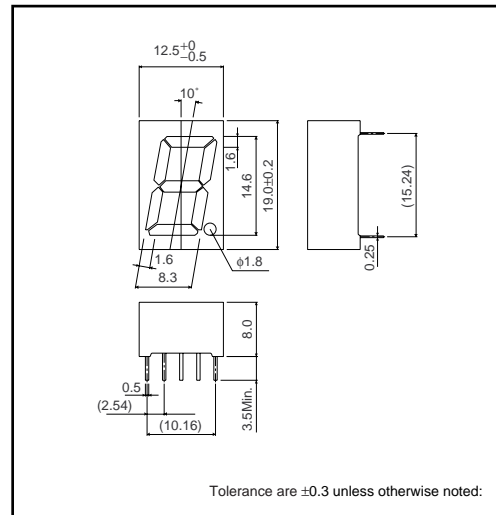


# LAP-601 B / L Series

●Dimensions (Unit : mm)



- 1) 14.6mm for letter height, single-line LED numerical displays.
- 2) About 10 times more luminous intensity than the conventional products by use of 4-element LED dies. (in case of orange color)
- 3) The same luminous intensity as the conventional products at their 1/10 of current, which contributes lots to energy-saving of sets.
- 4) Light-leakage from segments probable with the small display packages is very rare.
- 5) Both anode common type and cathode common type are available in lineup for each color.

Emitting color Common	Red	Orange	Yellow	Green
Anode	LAP-601VB	LAP-601DB	LAP-601YB	LAP-601MB
Cathode	LAP-601VL	LAP-601DL	LAP-601YL	LAP-601ML

Diagram of a 10-pin D.P. connector. The connector is a rectangular block with 10 pins. The top row of pins is labeled 10, 9, 8, 7, 6 from left to right. The bottom row of pins is labeled 1, 2, 3, 4, 5 from left to right. The pins are arranged in two rows of five. The top row is labeled 'D.P.' (Data Port) and the bottom row is labeled 'D.P.' (Data Port). The pins are numbered 1 through 10. The diagram shows the internal wiring connections between the pins. The connections are as follows: Pin 1 to Pin 6, Pin 2 to Pin 7, Pin 3 to Pin 8, Pin 4 to Pin 9, and Pin 5 to Pin 10.

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"

COM 3,8

a b c d e f g h i j

7 6 4 2 1 9 10

D.F. 5

## LED displays

## ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
		LAP-601VB / VL	LAP-601DB / DL	LAP-601YB / YL	LAP-601MB / ML	
Power dissipation	P <sub>D</sub>	448	448	448	448	mW
Power dissipation	P <sub>D</sub> /seg	56	56	56	56	mW
Forward current	I <sub>F</sub>	20	20	20	20	mA
Peak forward current	I <sub>FP</sub>	60 *1	60 *1	60 *1	60 *1	mA
Reverse voltage	V <sub>R</sub>	5	5	5	5	V
Operating temperature	T <sub>opr</sub>	-25 to +75				°C
Storage temperature	T <sub>stg</sub>	-30 to +85				°C

\*1 Pulse width 1ms Duty 1 / 5

## ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Red		Orange		Yellow		Green		Unit
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	1.9	2.6	1.9	2.6	1.9	2.6	1.9	2.6	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3V	—	100	—	100	—	100	—	100	μA
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> =10mA	650	—	605	—	590	—	572	—	nm
Spectral line half width	Δλ	I <sub>F</sub> =10mA	20	—	20	—	20	—	20	—	nm

© The products are not radiations resistant.

## ●Luminous intensity

Color	λ <sub>P</sub> (nm)	Type	Min.	Typ.	Unit
Red	650	LAP-601VB	14	36	mcd
		LAP-601VL			
Orange	605	LAP-601DB	56	250	mcd
		LAP-601DL			
Yellow	590	LAP-601YB	90	450	mcd
		LAP-601YL			
Green	572	LAP-601MB	36	100	mcd
		LAP-601ML			

© A condition of measurement is I<sub>F</sub>=10mA

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