Two-color, high luminance numeric displays

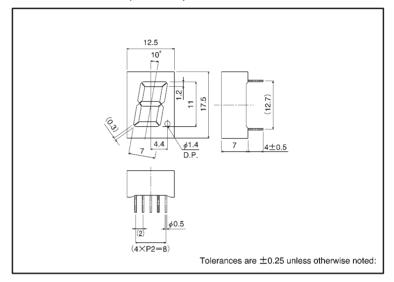
LA-421 AK Series

The LA-421 AK series are two-color, high luminance numeric displays designed to be used in bright locations. Red, green and orange displays are possible.

Features

- 1) Height of display: 11 mm.
- 2) Dimensions : 12.5 \times 17.5 \times 7 mm.
- Common anode and common cathode configurations are available.
- The package surface is painted black and the segments are milky white.
- 5) High luminance, clear display.
- 6) Red, green and orange displays are possible.

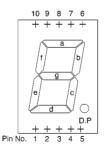
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red / Green		
Anode	LA-421MLA		
Cathode	LA-421MLK		

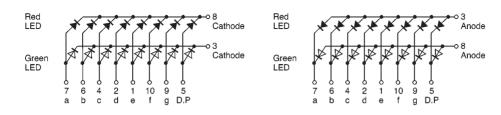
Pin assignments



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

●Internal circuit schematic (example of common cathode)

(example of common anode)



● Absolute maximum ratings (Ta = 25°C)

Parameter	Cumbal	Red	Green	Unit	
	Symbol	LA-421MLA / MLK	LA-421MLA / MLK		
Power dissipation	Po	640	480	mW	
Power dissipation	P⊳/ seg	80	60	mW	
Forward current	lF	30	20	mA	
Peak forward current	IFP	60*	60*	mA	
Reverse voltage	VR	3	3	V	
Operating temperature	Topr	—25 ~	°C		
Storage temperature	Tstg	-30~	°C		

^{*} Pulse width 1ms duty 1 / 5

●Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	Red		Green			Unit	
			Min.	Тур.	Max.	Min.	Тур.	Мах.	Offic
Forward voltage	VF	I=20mA	_	1.75	2.5	_	2.1	2.8	٧
Reverse current	lR	V _R =3V	_	_	100	_	_	100	μΑ
Peak wavelength	λР	I=20mA	_	660	_	_	563	_	nm
Spectral line half width	Δλ	I=20mA	_	25	_	_	40	_	nm

ONot designed for radiation resistance.

Luminous intensity

Color	λР	Туре	Min.	Тур.	Max.	Unit
Red	660	LA-421MLA	14	50	1	mcd
		LA-421MLK				
Green	563	LA-421MLA	9.0	25	_	mcd
		LA-421MLK				

Note: Measured at IF = 20mA