

1

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

PACKAGE DIMENSION mm

DIG.1  
DIG.2

INTERNAL CIRCUIT DIAGRAM

Common Cathode

L-KLS9-D-8022 Ax

Common Anode

L-KLS9-D-8022 Bx

| Color Code | Emitting Color | Peak Wavelength | Forward Voltage V <sub>F</sub> /Seg. |      | Luminous Intensity I <sub>v</sub> /Seg. |      |
|------------|----------------|-----------------|--------------------------------------|------|-----------------------------------------|------|
|            |                |                 | Typ.                                 | Max. | Min.                                    | Typ. |
|            |                | nm              | V                                    | mcd  |                                         |      |
| UHR        | Ultra Red      | 640             | 2                                    | 2.5  | 40                                      | 60   |
| UE         | Orange         | 615             | 2                                    | 2.5  | 40                                      | 60   |
| H          | Red            | 623             | 2.25                                 | 2.5  | 0.4                                     | 0.8  |
| YO         | Amber          | 605             | 2                                    | 2.5  | 40                                      | 60   |
| UY         | Yellow         | 590             | 2                                    | 2.5  | 40                                      | 60   |
| UG         | Green          | 568             | 2.1                                  | 2.5  | 25                                      | 40   |
| PG         | Pure Green     | 525             | 3.3                                  | 3.8  | 150                                     | 200  |
| UB         | Blue           | 465             | 3.3                                  | 3.8  | 40                                      | 100  |
| UW         | White          |                 | 3.3                                  | 3.8  | 200                                     | 500  |

Electro/Optical Characteristics I<sub>F</sub>=20mA Ta=25°C

Order information

L-KLS9-D-80 2 2 A XX -X X

RoHS

Digit Mode

Character Height

Digit Number:

1-single digit

2-Dual digit

3- Three digit

4-Four digit

Reflector surface color

Color Code:

Drive Mode:

Common Cathode

Common Anode

Model Number:

| Maximum Ratings Ta=25°C (Derate above 25°C) |                                      |                 |       |           |        |      |       |        |       |            |       |       |
|---------------------------------------------|--------------------------------------|-----------------|-------|-----------|--------|------|-------|--------|-------|------------|-------|-------|
| Characteristic                              | Test Condition                       | Symbol          | Units | Ultra Red | Orange | Red  | Amber | Yellow | Green | Pure Green | Blue  | White |
|                                             |                                      |                 |       | UHR       | UE     | H    | YO    | UY     | UG    | PG         | UB    | UW    |
| Pulse Forward Current Per Seg.              | 1/10 duty cycle<br>0.1ms Pulse width | I <sub>FP</sub> | mA    | 100       | 100    | 50   | 100   | 100    | 100   | 100        | 100   | 100   |
| DC Forward Current Per Seg.                 |                                      | I <sub>F</sub>  | mA    | 30        | 30     | 15   | 30    | 30     | 30    | 30         | 30    | 30    |
| Reverse Current Per Seg.                    | V <sub>R</sub> =5V                   | I <sub>R</sub>  | A     | 10        | 10     | 10   | 10    | 10     | 10    | 10         | 10    | 10    |
| Power Dissipation                           |                                      | P <sub>D</sub>  | mW    | 65×8      | 65×8   | 40×8 | 65×8  | 65×8   | 75×8  | 110×8      | 120×8 | 120×8 |

Tolerance: ±0.25mm unless stated

PROJECTION

UNITS mm

SHEET SIZE A4

Draw data 2018-1-25

Check data 2018-1-25

Description: 0.8" Single Digit 7 Segment DISPLAYS

KLS P/N: L-KLS9-D-8022XXXXX

NingBo KLS ELECTRONIC CO.,L TD.

1

2

3

4

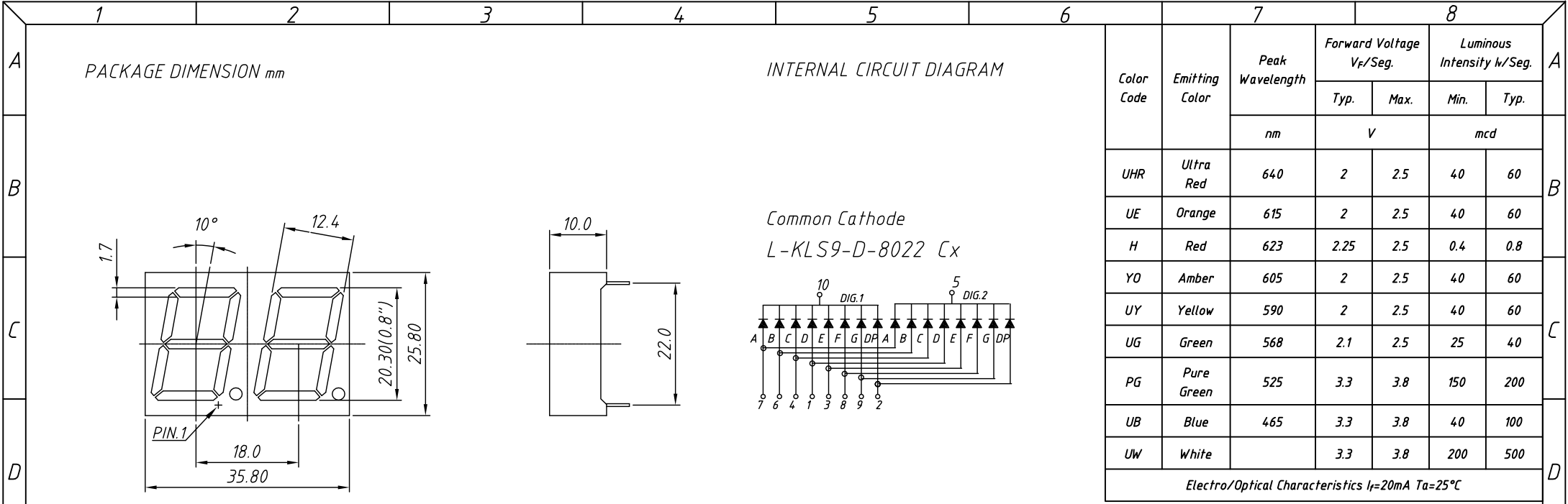
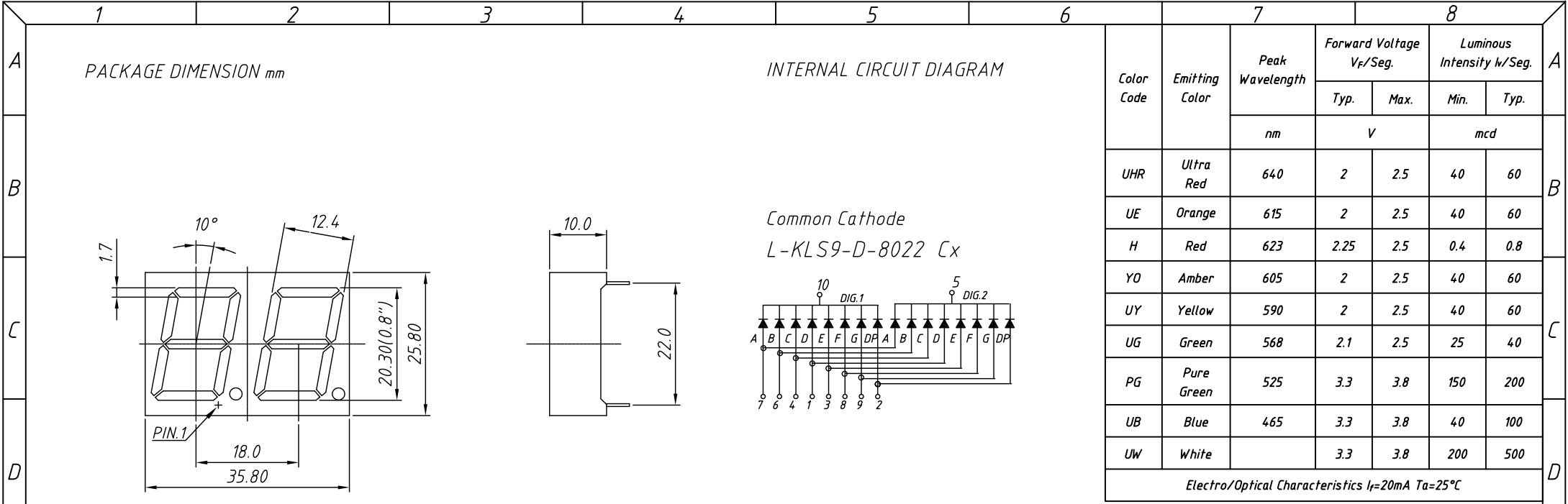
5

6

7

8

|   |                      | 1                                                                                   |  | 2 |  | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  |   |   |
|---|----------------------|-------------------------------------------------------------------------------------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|---|
| A | PACKAGE DIMENSION mm | INTERNAL CIRCUIT DIAGRAM                                                            |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  | A |   |
|   |                      | Common Cathode<br>L-KLS9-D-8022 Cx                                                  |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   | B |
|   |                      | Electro/Optical Characteristics $I_f=20mA$ $T_a=25^{\circ}C$                        |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |
| B |                      |    |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  | B |   |
| C |                      |    |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  | C |   |
| D |                      |  |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  | D |   |



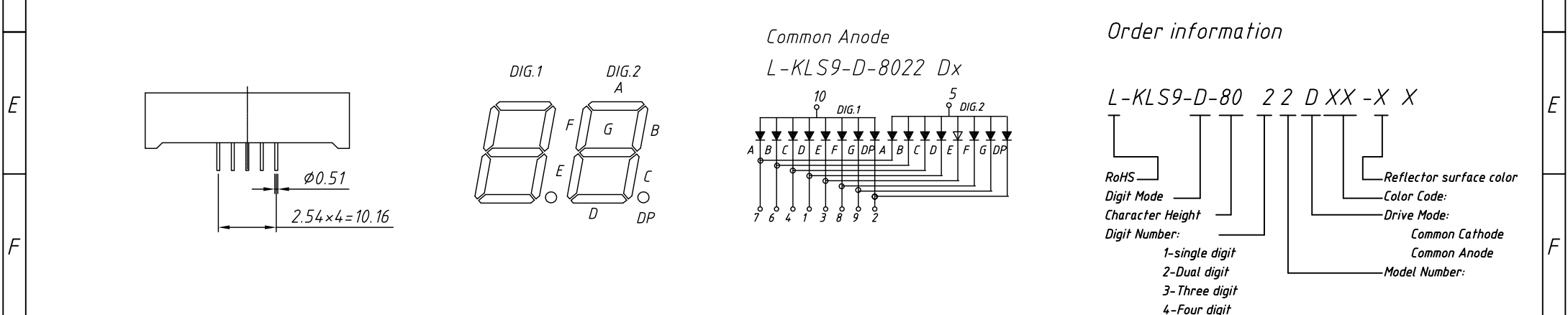
**Common Anode**  
**L-KLS9-D-8022 Dx**

**Order information**

**L-KLS9-D-80 2 2 D XX -X X**

RoHS  
 Digit Mode  
 Character Height  
 Digit Number:  
 1-single digit  
 2-Dual digit  
 3-Three digit  
 4-Four digit

Reflector surface color  
 Color Code:  
 Drive Mode:  
 Common Cathode  
 Common Anode  
 Model Number:



| G |  | Maximum Ratings $T_a=25^{\circ}\text{C}$ (Derate above $25^{\circ}\text{C}$ ) |                                      |          |       |           |        |      |       |        |       |            |       |       |
|---|--|-------------------------------------------------------------------------------|--------------------------------------|----------|-------|-----------|--------|------|-------|--------|-------|------------|-------|-------|
|   |  | Characteristic                                                                | Test Condition                       | Symbol   | Units | Ultra Red | Orange | Red  | Amber | Yellow | Green | Pure Green | Blue  | White |
|   |  |                                                                               |                                      |          |       | UHR       | UE     | H    | YO    | UY     | UG    | PG         | UB    | UW    |
| H |  | Pulse Forward Current Per Seg.                                                | 1/10 duty cycle<br>0.1ms Pulse width | $I_{FP}$ | mA    | 100       | 100    | 50   | 100   | 100    | 100   | 100        | 100   | 100   |
|   |  | DC Forward Current Per Seg.                                                   |                                      | $I_F$    | mA    | 30        | 30     | 15   | 30    | 30     | 30    | 30         | 30    | 30    |
|   |  | Reverse Current Per Seg.                                                      | $V_R=5V$                             | $I_R$    | A     | 10        | 10     | 10   | 10    | 10     | 10    | 10         | 10    | 10    |
|   |  | Power Dissipation                                                             |                                      | $P_D$    | mW    | 65×8      | 65×8   | 40×8 | 65×8  | 65×8   | 75×8  | 110×8      | 120×8 | 120×8 |

| Maximum Ratings Ta=25°C (Derate above 25°C) |                                      |                 |       |           |        |      |       |        |       |            |       |       |
|---------------------------------------------|--------------------------------------|-----------------|-------|-----------|--------|------|-------|--------|-------|------------|-------|-------|
| Characteristic                              | Test Condition                       | Symbol          | Units | Ultra Red | Orange | Red  | Amber | Yellow | Green | Pure Green | Blue  | White |
|                                             |                                      |                 |       | UHR       | UE     | H    | YO    | UY     | UG    | PG         | UB    | UW    |
| Pulse Forward Current Per Seg.              | 1/10 duty cycle<br>0.1ms Pulse width | I <sub>FP</sub> | mA    | 100       | 100    | 50   | 100   | 100    | 100   | 100        | 100   | 100   |
| DC Forward Current Per Seg.                 |                                      | I <sub>F</sub>  | mA    | 30        | 30     | 15   | 30    | 30     | 30    | 30         | 30    | 30    |
| Reverse Current Per Seg.                    | V <sub>R</sub> =5V                   | I <sub>R</sub>  | A     | 10        | 10     | 10   | 10    | 10     | 10    | 10         | 10    | 10    |
| Power Dissipation                           |                                      | P <sub>D</sub>  | mW    | 65×8      | 65×8   | 40×8 | 65×8  | 65×8   | 75×8  | 110×8      | 120×8 | 120×8 |

Tolerance:

±0.25mm  
unless stated

Description:

0.8" Single Digit  
7 Segment DISPLAYS

PROJECTION



UNITS

mm

KLS P/N:

L-KLS9-D-8022XXXXX

SHEET SIZE

A4

Draw data

2018-1-25

Check data

2018-1-25



NingBo KLS ELECTRONIC CO.,L TD.