

## 0.80 " SINGLE DIGIT NUMERIC DISPLAY

LIN-8018XX RED

LIN-8019XX RED

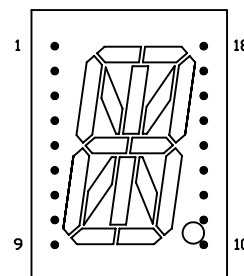
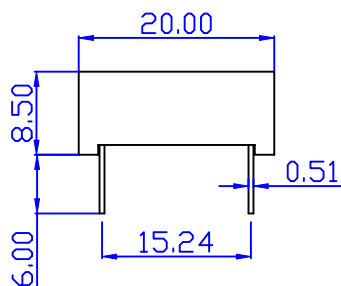
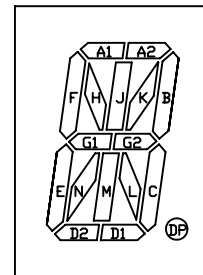
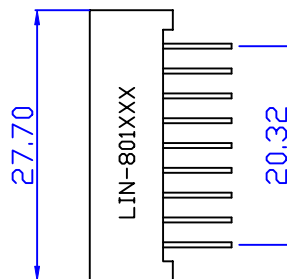
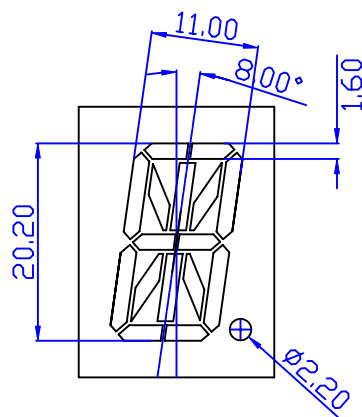
### Features

- 0.80 " DIGIT HEIGHT
- EXCELLENT CHARACTER APPEARANCE
- EASY MOUNTING ON P.C.BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD: BLACK /GRAY FACE, WHITE SEGMENT.

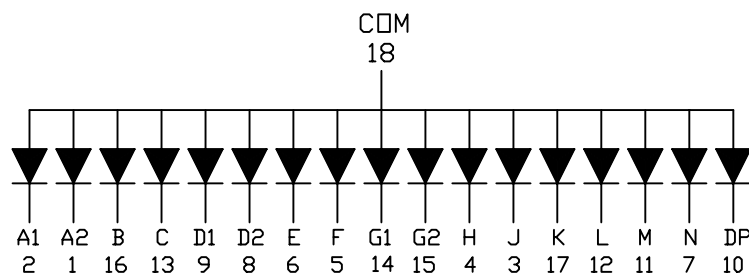
### Description

The Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Red Light Emitting Diode.

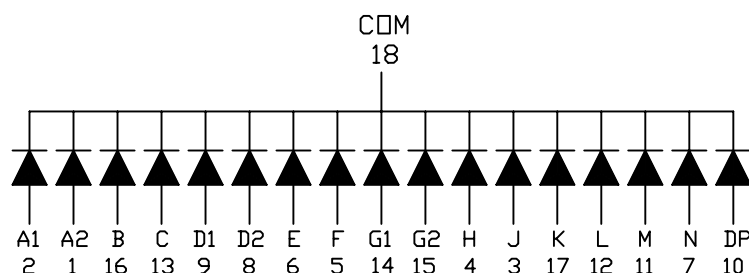
### Package Dimensions & Internal Circuit Diagram



LIN-8018XX



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### Notes:

- 1.All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01)$  " unless otherwise noted.
- 2.Specifications are subject to change without notice.

## Absolute Maximum Rating ( $T_a=25\text{ }^{\circ}\text{C}$ ) (Per Segment)

| Parameter                  | Symbol    | Red<br>(GaP/GaP) | Unit               |
|----------------------------|-----------|------------------|--------------------|
| Continuous Forward current | $I_{AF}$  | 15               | mA                 |
| Peak forward current (Duty | $I_{PF}$  | 60               | mA                 |
| Reverse voltage            | $V_R$     | 5                | V                  |
| Operating temp.            | $T_{OPR}$ | -20~+85          | $^{\circ}\text{C}$ |
| Storage temp.              | $T_{STG}$ | -25~+85          | $^{\circ}\text{C}$ |

\*Soldering Bath : not more than 3 seconds @260 $^{\circ}\text{C}$ . The bottom ends of plastic reflector should be at least 2 mm above the solder surface.

Soldering Iron : not more than 3 seconds @300 $^{\circ}\text{C}$  under 30 W.

## ELECTRO-OPTICAL CHARACTERISTICS ( $T_a=25\text{ }^{\circ}\text{C}$ )

|                          | Symbol             | Condition         | Min. | Typ. | Max. | Unit          |
|--------------------------|--------------------|-------------------|------|------|------|---------------|
| Forward Voltage          | $V_F$              | $I_F=10\text{mA}$ |      | 2.10 |      | V             |
| Reverse Current          | $I_R$              | $V_R=5\text{V}$   |      |      | 100  | $\mu\text{A}$ |
| Luminous Intensity       | $I_v$              | $I_F=10\text{mA}$ |      | 0.7  |      | mcd           |
| Peak Emission Wavelength | $\lambda_p$<br>Hue | $I_F=10\text{mA}$ |      | 695  |      | nm            |
| Spectral Line Half-Width | $\lambda$          | $I_F=10\text{mA}$ |      | 100  |      | nm            |
| View Angle               | $2\Theta 1/2$      | $I_F=20\text{mA}$ |      |      |      | deg           |