

# KLM - 096CA - 16B

This module designed for light emitting display device. Organize with 16 x 32 matrix combination with 512 of DUAL(Red, Green) Chip LEDs, for indoor use.

**FEATURES**

- Active display size : 96mm x 192mm
- Dot size :  $\phi$  5
- Dot pitch : 6mm
- Display color : RED, GREEN, AMBER(Mixed color)
- Duty rate : 1/16
- Dot matrix : 512(16 x 32)
- Weight : 110g(Typ.)

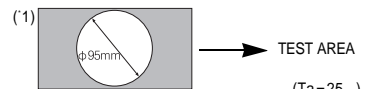
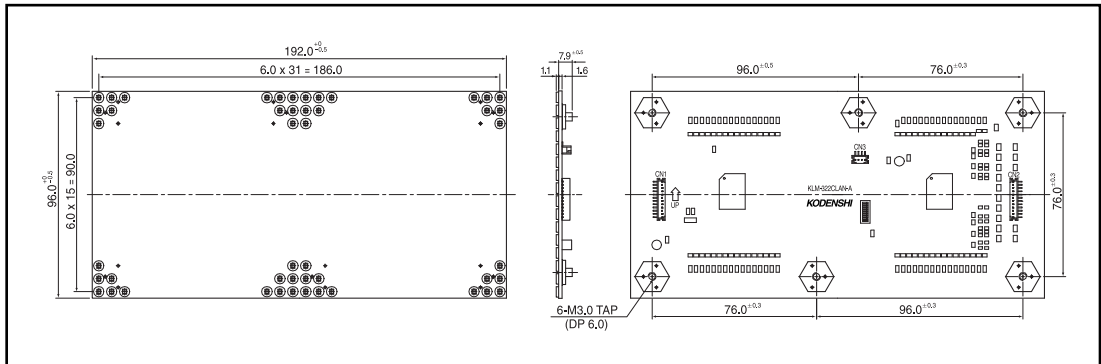
**MAXIMUM RATINGS**

(Ta=25 )

| ITEM                  | SYMBOL    | RATING           | UNIT | COND. |
|-----------------------|-----------|------------------|------|-------|
| Power dissipation     | $P_D$     | 25               | W    |       |
| Supply voltage(DRIVE) | $V_{DD}$  | 6                | V    |       |
| Supply voltage(LED)   | $V_{LED}$ | 6                | V    |       |
| Logic input power     | $V_{in}$  | - 0.5 ~ $V_{DD}$ | V    |       |
| Junction Temp.        | $T_J$     | 115              |      |       |
| Operating Temp.       | $T_{opr}$ | - 20 ~ + 65      |      |       |
| Storage Temp.         | $T_{stg}$ | - 20 ~ + 70      |      |       |

**DIMENSIONS**

(Unit : mm)



**OPTICAL CHARACTERISTICS**

(Ta=25 )

| ITEM                  | SYMBOL | CONDITION   | MIN. | TYP. | MAX. | UNIT.            |
|-----------------------|--------|-------------|------|------|------|------------------|
| Bright - ness(16x 16) | GREEN  | $IV_G$      | -    | 150  | -    | $cd/m^2 \cdot 1$ |
|                       | RED    | $IV_R$      | -    | 180  | -    |                  |
|                       | AMBER  | $IV_O$      | -    | 250  | -    |                  |
| Dot - Balance         | GREEN  | $IVR_G$     | -    | -    | 2    | -                |
|                       | RED    | $IVR_R$     | -    | -    | 2    |                  |
|                       | AMBER  | $IVR_O$     | -    | -    | 2    |                  |
| Emission Wavelength   | GREEN  | $\lambda_D$ | -    | 570  | -    | nm               |
|                       | RED    | $\lambda_D$ | -    | 660  | -    |                  |
| Spectrum half - band  | GREEN  | $\sigma$    | -    | 30   | -    | nm               |
|                       | RED    | $\sigma$    | -    | 40   | -    |                  |

