

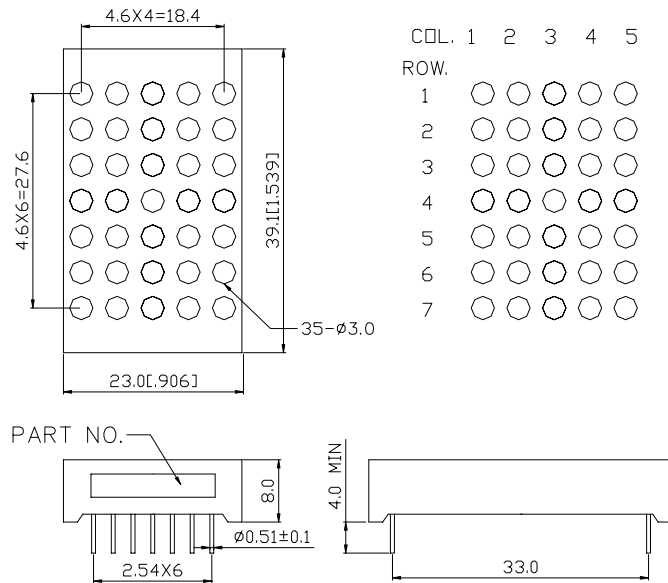
FEATURES

- 1.54inch (39.1mm) Matrix height
- Choice of colors---Bright Green / Orange / Red/Blue,etc
- Flat package and light weight
- Easy assembly
- High quality and low cost
- High reliable and intensity
- Low power requirement

DESCRIPTION

- 5 X 7 dot matrix LED displays
- Ø3.0mm dot and pitch 4.60mm
- Black face or gray face and milky dots

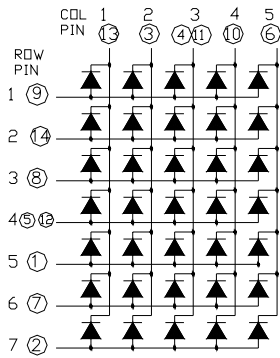
PACKAGE DIMENSIONS



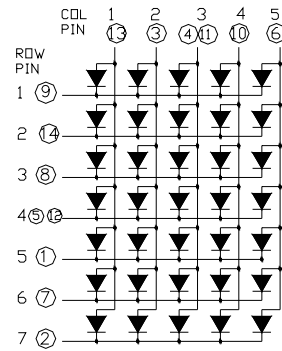
NOTES: All dimensions are in millimeter (inches) tolerance are ±0.25mm (0.01inch) unless otherwise noted;

CIRCUIT DIAGRAM

A. WCN-5715XX-DA01



B. WCN-5715XX-DC01



ABSOLUTE MAXIMUM RATINGS AT $T_a=25^\circ\text{C}$

| PARAMETER | Bright Green | Orange | SH. Red | UNIT |
|---|--------------|--------|---------|-------|
| Maximal Power Dissipation (When completely Lighting) Per Dot | 26 | 26 | 20 | mW |
| Maximal Forward Current (When completely Lighting) Per Dot | 10 | 10 | 10 | mA |
| Derating Linear From 25°C Per Dot | 0.166 | 0.166 | 0.166 | mA/°C |
| Peak Forward Current Per Dot | 40 | 40 | 40 | mA |
| Reverse Voltage Per Dot | 5 | | | V |
| Operation Temperature Range | -35 ~+85 | | | °C |
| Storage Temperature Range. | -35 ~+85 | | | °C |

NOTES: $T_a=25^\circ\text{C}$

$I_{FP} = 1/8 \text{Duty } 10\text{KHZ}$

PTOELECTRIC CHARACTERISTICS $T_a=25^\circ\text{C}$

| PARAMETER | SYMBOL | TEST CONDITIONS | PART NO. | RATING | | | UNIT |
|--|-----------------|----------------------------------|---------------------------------|--------|------|------|---------------|
| | | | | MIN. | TYP. | MAX. | |
| Forward Voltage Per Dot | V_F | $I_F=20\text{mA}$ | Bright Green | 1.8 | 2.25 | 2.6 | V |
| | | | Orange | — | 2.05 | 2.6 | |
| | | | SH. Red | — | 1.8 | 2.0 | |
| Reverse Current Per Dot | I_R | $V_R=5\text{V}$ | Bright Green SH. Red, Orange | — | — | 100 | μA |
| Luminous Intensity Per Dot | I_V | $I_{FP}=40\text{mA}$ 1/8 Duty | Bright Green | — | 2.5 | — | mcd |
| | | | Orange | — | 1.5 | — | |
| | | | SH. Red | — | 3.5 | — | |
| Peak Emission Wavelength Per Dot | λ_P | $I_F=20\text{mA}$ | Bright Green | — | 568 | — | nm |
| | | | Orange | — | 632 | — | |
| | | | SH. Red | — | 660 | — | |
| Dominant Wavelength Per Dot | λ_D | $I_F=20\text{mA}$ | Bright Green | — | 573 | — | nm |
| | | | Orange | — | 622 | — | |
| | | | SH. Red | — | 643 | — | |
| Spectral Line Wave Length Per Dot | $\Delta\lambda$ | $I_F=20\text{mA}$ | Bright Green | — | 30 | — | nm |
| | | | Orange | — | 35 | — | |
| | | | SH. Red | — | 20 | — | |
| Luminous Intensity Matching Ratio (Dot To Dot) | I_{V-m} | $I_{FP}=40\text{mA}$ 1/8 Duty | Bright Green SH. Red, Orange | — | — | 2:1 | |

SOLDERING CONDITIONS : Soldering Temp. $\leq +260^\circ\text{C}$; Soldering Time $\leq 3\text{sec}$

(at 2mm Distance from the Case of Reflector Edge)

