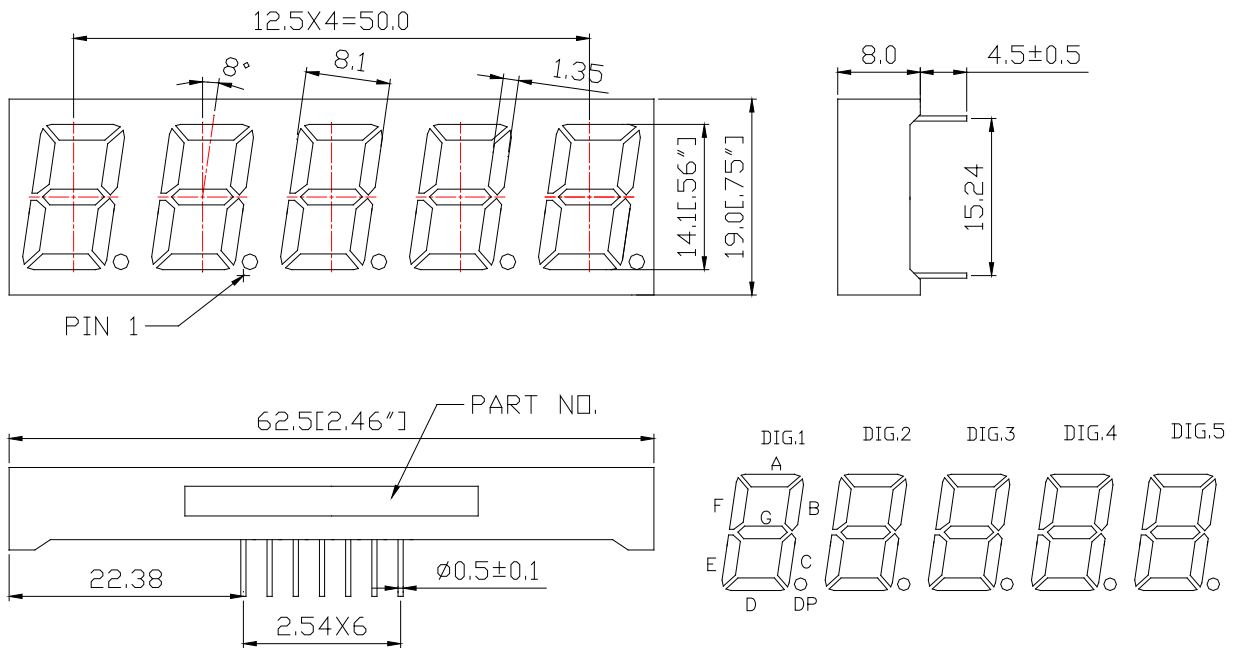


**WCN5-0056SR-C11****SPECIFICATION**

| <b>WCN</b>   |  |  | <b>CUSTOMER</b> |
|--------------|--|--|-----------------|
|              |  |  |                 |
| <b>NOTE:</b> |  |  |                 |

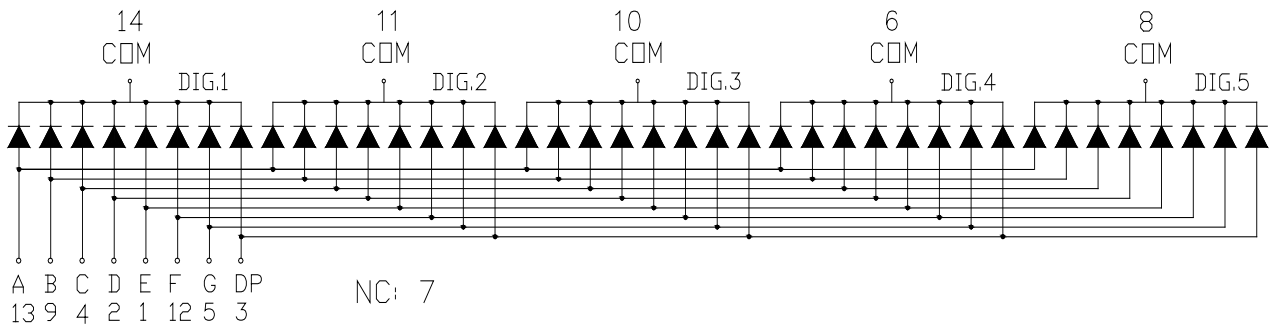
**REVISION: 01**

■ **Outer Dimension:**



**Notes: Unless otherwise stated, The tolerance is  $\pm 0.25$ mm.**

■ **Circuit Diagram:**



■ **Pin Connection:**

| PIN NO. | CONNECTION   | PIN NO. | CONNECTION    |
|---------|--------------|---------|---------------|
| 1       | Anode E      | 8       | Common DIG. 5 |
| 2       | Anode D      | 9       | Anode B       |
| 3       | Anode DP     | 10      | Common DIG.3  |
| 4       | Anode C      | 11      | Common DIG.2  |
| 5       | Anode G      | 12      | Anode F       |
| 6       | Common DIG.4 | 13      | Anode A       |
| 7       | NO Connect   | 14      | Common DIG.1  |

■ **Features:**

- High Reliability
- Color : Red
- Low Power Requirement
- Easy Assembly

■ **Description:**

- Five Digit LED Display
- Digit Height:14.1mm(0.56" )
- Black Face and Encapsulation With Milky Epoxy

■ **Absolute Maximum Rating (Ta=25°C):**

| Parameter                        | Symbol          | Condition          | Color | Rating  | Units |
|----------------------------------|-----------------|--------------------|-------|---------|-------|
| Power Dissipation Segment        | P <sub>d</sub>  | —                  | Red   | 50      | mW    |
| Forward Current Segment          | I <sub>F</sub>  | —                  | Red   | 25      | mA    |
| Derating Of If Per Segment       | ΔI <sub>F</sub> | Ta ≥ 25°C          | Red   | 0.30    | mA/°C |
| Peak Forward Current Per Segment | I <sub>FP</sub> | 1/10 Duty<br>10KHz | Red   | 100     | mA    |
| Reverse Voltage Per Segment      | V <sub>R</sub>  | —                  | Red   | 5       | V     |
| Operating Temperature Range      | Topr            | —                  | —     | -35~+85 | °C    |
| Storage Temperature Range        | Tstg            | —                  | —     | -35~+85 | °C    |

■ **Electrical/Optical Characteristics Rating(Ta=25°C):**

| Item  | Symbol           | Test conditions      | Location    | Color | Rating |      |      | Unit |
|---|------------------|----------------------|-------------|-------|--------|------|------|------|
|   |                  |                      |             |       | Min.   | Typ. | Max  |      |
| Forward Voltage   | V <sub>F</sub>   | I <sub>F</sub> =20mA | Per Segment | Red   | —      | 1.80 | 2.00 | V    |
| Reverse Current   | I <sub>R</sub>   | V <sub>R</sub> =5V   | Per Segment | Red   | —      | —    | 100  | μA   |
| Luminous Intensity  | I <sub>V</sub>   | I <sub>F</sub> =20mA | Per Segment | Red   | 3201   | 6000 | —    | μcd  |
| Wave Length   | λ <sub>P</sub>   | I <sub>F</sub> =20mA | Per Segment | Red   | —      | 660  | —    | nm   |
|   | λ <sub>D</sub>   |                      |             |       | —      | 643  | —    |      |
| Spectral Line Half Width                                  | Δλ               | I <sub>F</sub> =20mA | Per Segment | Red   | —      | 20   | —    | nm   |
| Luminous Intensity Matching Ratio<br>(Segment To Segment) | I <sub>v-m</sub> | I <sub>F</sub> =10mA |             |       |        |      | 2:1  |      |

■ **Luminous Intensity Sorting:**

| Rank | Symbol | Condition            | Min  | Max   | Unit |
|------|--------|----------------------|------|-------|------|
| J    | J      | I <sub>F</sub> =10mA | 3201 | 5050  | μcd  |
| K    | K      | I <sub>F</sub> =10mA | 5051 | 8000  | μcd  |
| L    | L      | I <sub>F</sub> =10mA | 8001 | 12650 | μcd  |

■ **Soldering Conditions: Soldering Temp. ≤ +260°C, Soldering Time. ≤ 3sec.**

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