



**World Components Network Service Ltd**

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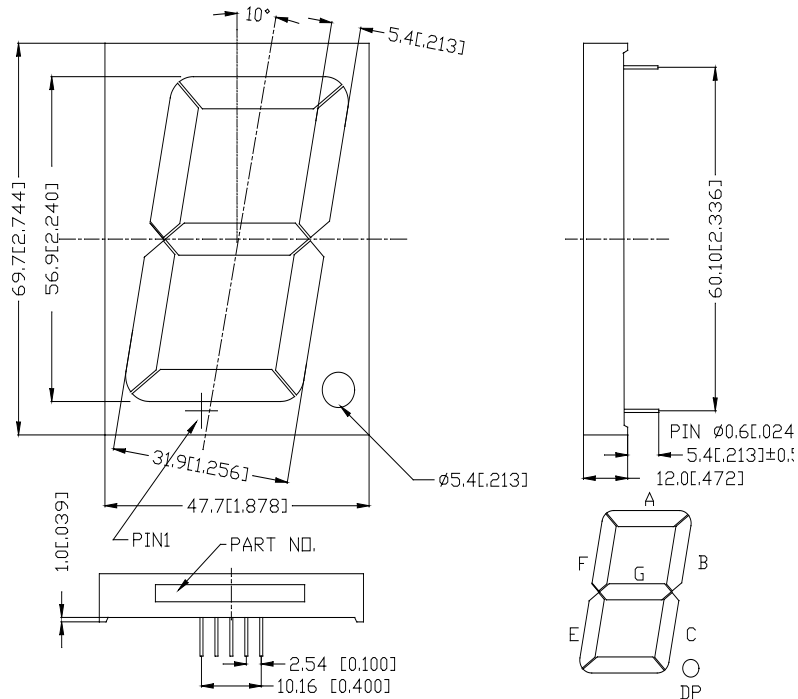
# **WCN1-00B2SD-C21S**

## **SPECIFICATION**

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

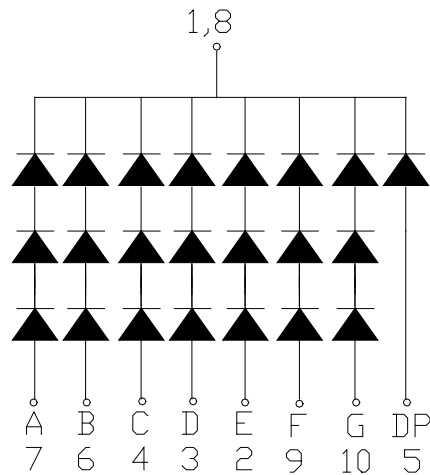
**REVISION: 02**

## Outer Dimension:



Notes: Unless otherwise stated, The tolerance is  $\pm 0.25\text{mm}$ .

## Circuit Diagram



## Pin Connection:

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Common Cathode	6	Anode B
2	Anode E	7	Anode A
3	Anode D	8	Common Cathode
4	Anode C	9	Anode F
5	Anode DP	10	Anode G

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## Features:

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

## Description:

- Single Digit LED Display
- Digit Height: 56.90mm (2.24" )
- Black Face and Encapsulation With Milky Segment

## Absolute Maximum Rating (Ta=25°C):

Parameter	Symbol	Condition	Color	Rating	Units
Power Dissipation Segment/DP	P <sub>d</sub>	—	Red	150/50	mW
Forward Current Segment	I <sub>F</sub>	—	Red	25	mA
Derating Of If Per Segment	△I <sub>F</sub>	Ta ≥ 25°C	Red	0.30	mA/°C
Peak Forward Current Per Segment	I <sub>FP</sub>	1/10 Duty 10KHz	Red	100	mA
Reverse Voltage Per Segment/DP	V <sub>R</sub>	—	Red	15/5	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			Units
					Min.	Typ.	Max.	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Per Segment	Red	—	5.70	6.30	V
			DP			1.90	2.1	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V/5V	Per Segment/DP	Red	—	—	100	μA
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> =10mA	Per Segment	Red	19991	30000	—	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	△λ	I <sub>F</sub> =20mA	Per Segment	Red	—	20	—	nm
Luminous Intensity Matching Ratio (Segment To Segment)	I <sub>V-m</sub>	I <sub>F</sub> =10mA					1:1.3	

## Luminous Intensity Sorting: (Luminous Intensity Tolerance is +/-10%)

Rank	Symbol	Condition	Min	Max	Unit
N	N	I <sub>F</sub> =10mA	19991	25990	μcd
O	O	I <sub>F</sub> =10mA	25991	33790	μcd
P	P	I <sub>F</sub> =10mA	33791	43990	μcd
Q	Q	I <sub>F</sub> =10mA	43991	57100	μcd

## Soldering Conditions: Soldering Temp. ≤ +260°C ; Soldering Time. ≤ 3sec.

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