

WCN4S-1020SR-C1

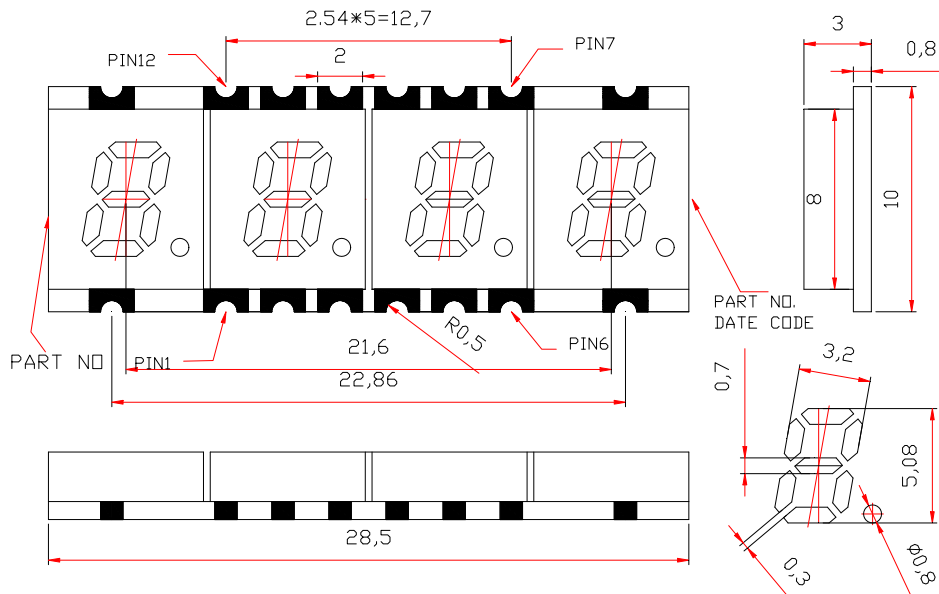
SPECIFICATION

WCN			CUSTOMER Confirmed
Prepared by	Checked by	Approved by	
Zhang 2020-11-9	Athena		



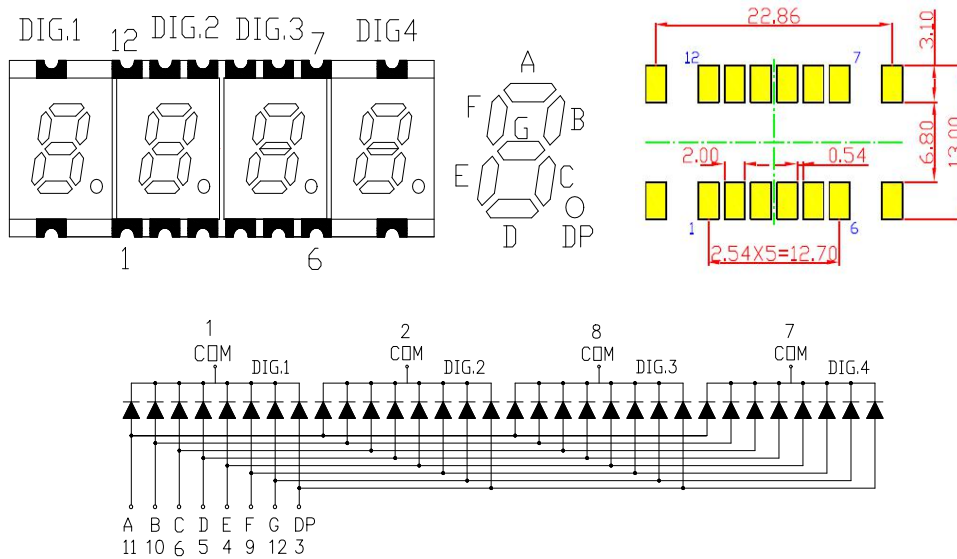
REVISION:A0

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 dig1	7	Common Cathode dig4
2	Common Cathode dig2	8	Common Cathode dig3
3	Anode DP	9	Anode F
4	Anode E	10	Anode B
5	Anode D	11	Anode A
6	Anode C	12	Anode G

WCN Opto Group Co., Ltd

■ **Features:**

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

■ **Description:**

- Four Digit LED Display
- Digit Height:5.08mm(0.20")
- Gray Face and Milky Segment

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

Parameter	Symbol	Condition	Color	Rating	Units
Power Dissipation Per Segment	P _d	—	Red	48	mW
Forward Current Per Segment	I _F	—	Red	20	mA
Peak Forward Current Per Segment	I _{FP}	1/10 Duty 1KHz	Red	100	mA
Reverse Voltage Per Segment	V _R	—	Red	5	V
Operating Temperature Range	T _{opr}	—	—	-40~+105	°C
Storage Temperature Range	T _{stg}	—	—	-40~+105	°C

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

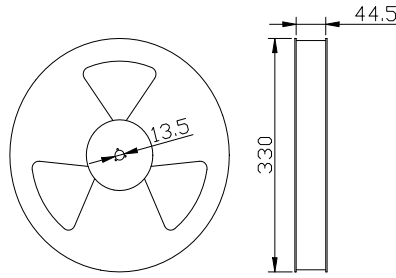
Item	Symbol	Test conditions	Location	Rating			Units
				Min.	Typ.	Max.	
Forward Voltage	V _F	I _F =20mA	Per Segment	—	2.00	2.40	V
Reverse Current	I _R	V _R =5V	Per Segment	—	—	100	μA
Luminous Intensity	I _V	I _F =10mA	Per Segment	3051	5500	—	μcd
Wave Length	λ _P	I _F =20mA	Per Segment	—	645	—	nm
	λ _D			—	630	—	
Spectral Line Half Width	Δλ	I _F =20mA	Per Segment	—	20	—	nm
Luminous Intensity Matching Ratio (Segment To Segment)	I _{v-m}	I _F =10mA				1.6:1	

■ **Luminous Intensity Sorting: (Luminous intensity tolerance: +/-10%)**

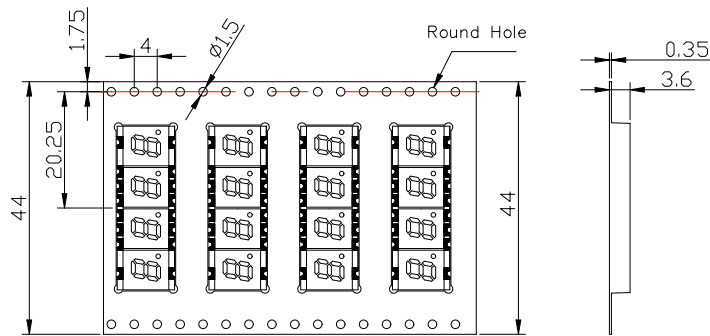
Rank	Symbol	Condition	Min	Max	Unit
K	K	I _F =10mA	3051	4000	μcd
L	L	I _F =10mA	4001	5000	μcd
M	M	I _F =10mA	5001	6100	μcd
N	N	I _F =10mA	6101	7200	μcd
O	O	I _F =10mA	7201	8500	μcd

■ **Soldering Conditions: Soldering Temp. ≦+260°C, Soldering Time. ≦3sec**
 (at 2mm Distance from The Case of Reflector Edge)

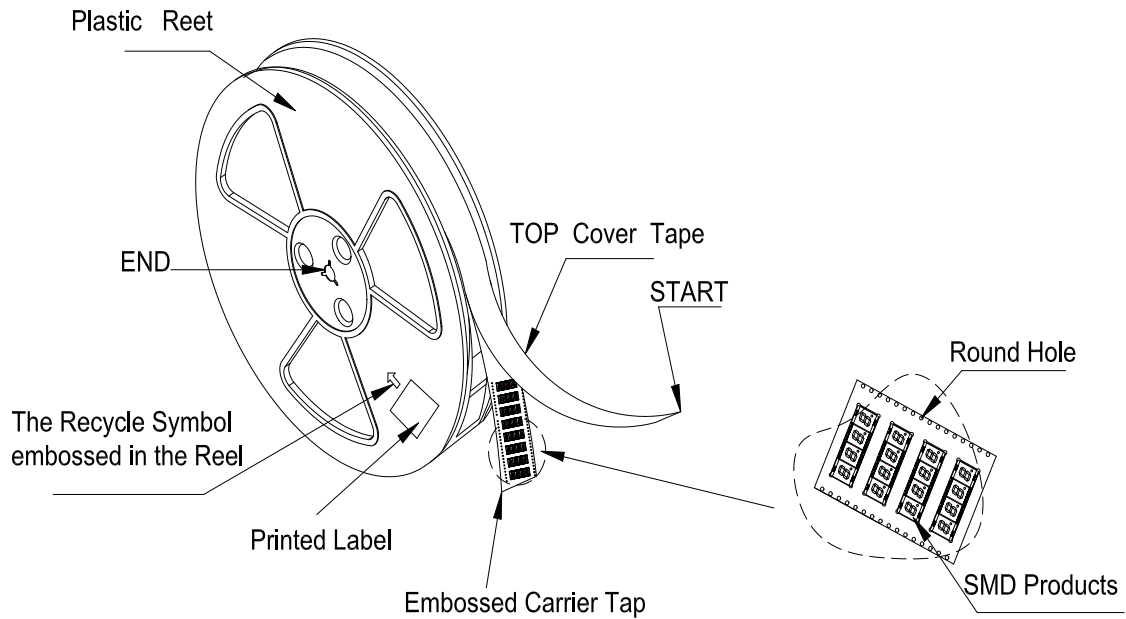
■ **Dimensions of Reel (Unit: mm)**



■ **Dimensions of Tape (Unit: mm)**



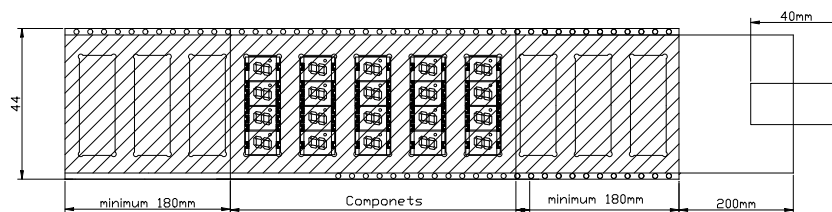
■ **Label Direction & Content in The Roll:**



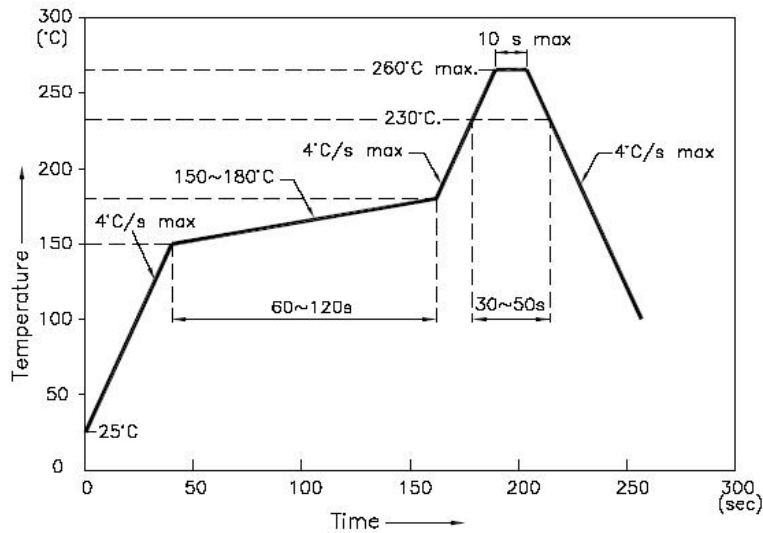
■ **One Reel contained 1000 PCS products**

■ **An Outer carton contained 3 Reel and 3000 PCS products.**

■ **USER FEE DIRECTION**



■ Re-flow Temp/Time



NOTES:

- 1、 We recommend the re-flow temperature 245°C(±5°C).the maximum soldering temperature should be limited to 260°C.
- 2、 Don't cause stress to the epoxy resin while it is exposed to high temperature. Number of Re-flow process shall be 2 times or less.