

深圳市昱申科技有限公司  
CHINA YOUNG SUN LED TECHNOLOGY CO., LTD.

TEL: (86) 755-28079401 28079402 28079403 28079404 28079405  
FAX: (86) 755-28079407 E-mail: info@100LED.com Web: www.100LED.com

Model No.: YSM-1288CR3G2C  
4mm Pitch RED/GREEN Double Color Dot Matrix

Applications:

- Moving Message Display
- Full Color Display
- Banking Board
- Score Boards
- Digital Display

LED Chip Absolute Maximum Ratings: (Ta=25°C)

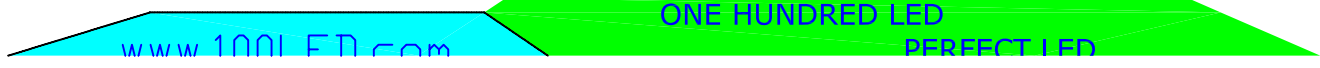
Parameter	Symbol	Red	Green	Unit
Forward current	I <sub>F</sub>	20	20	mA
Peak forward current (Duty Cycle=1/10, 10KHz)	I <sub>PF</sub>	30	30	mA
Reverse voltage (V <sub>R</sub> =5V)	I <sub>R</sub>	10	10	μA
Operating temp	T <sub>OPR</sub>	-25 - 85	-25 - 85	°C
Storage temp	T <sub>STG</sub>	-30-85	-30-85	°C
Peak Emission Wavelength	λ <sub>PH</sub>	20	30	nm

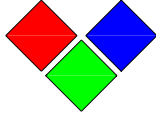
\* Soldering Bath: not more than 5 seconds @260 °C. The bottom ends of the plastic reflector should be at least 2mm above the solder surface

Soldering Iron: not more than 3 seconds @300 °C under 30W

LED Chip Typical Electrical & Optical Characteristics: (Ta=25 °C)

ITEMS	Color	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	Red	V <sub>F</sub>	I <sub>F</sub> =20mA	1.9	2.0	2.4	V
	Green			3.2	3.3	3.5	
Luminous Intensity	Red	I <sub>v</sub>	I <sub>F</sub> =20mA	300	350	380	mcd
	Green			480	500	520	
Wavelength	Red	Δλ	I <sub>F</sub> =20mA	620	---	625	nm
	Green			515	---	517.5	
Light Degradation after 1000 hours	Red	-4.68% ~ -8.27%					
	Green	-11.37% ~ -15.30%					





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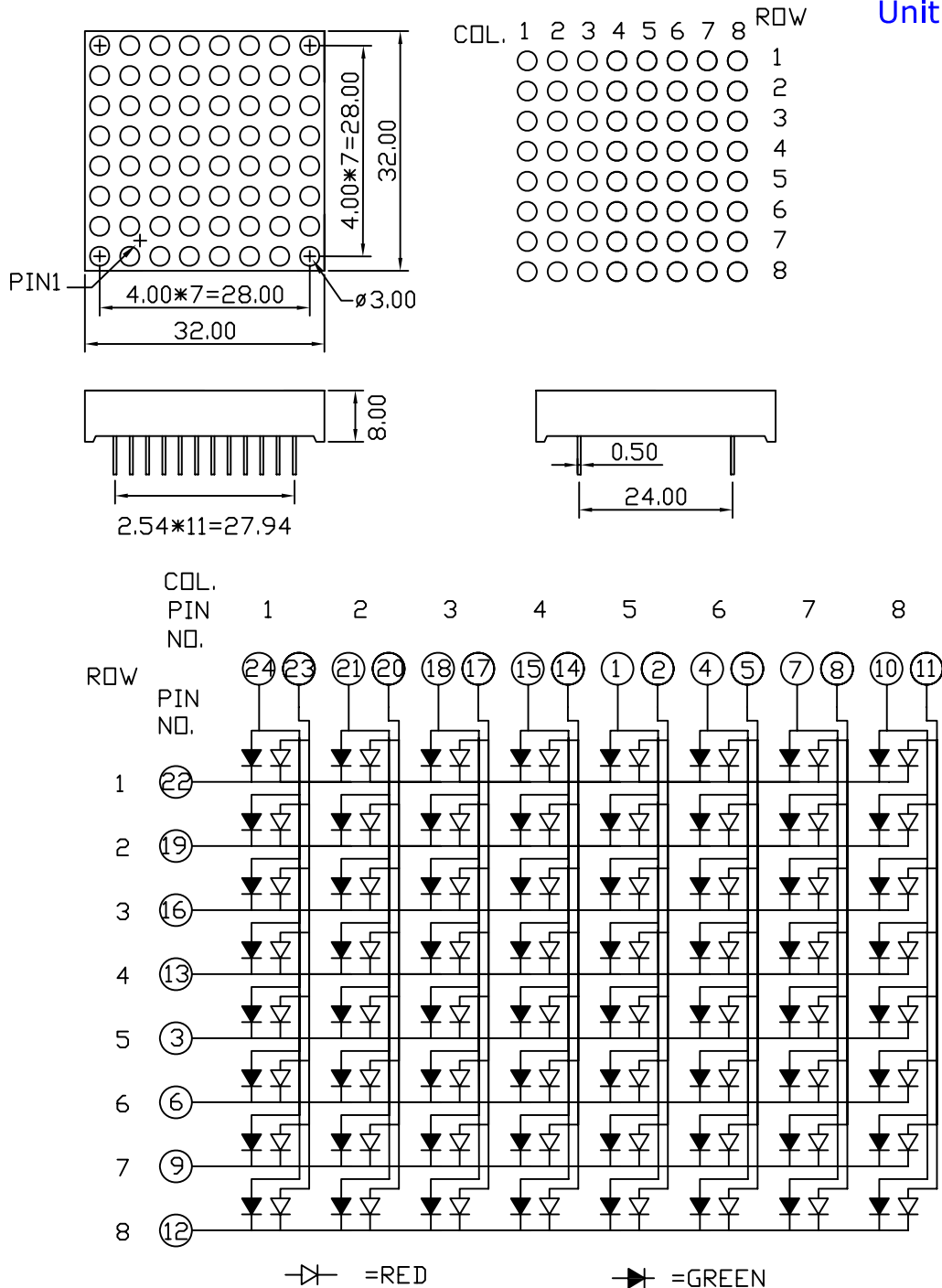
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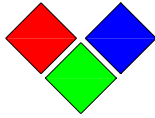
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### Mechanical Dimensions:

- All dimension are in mm, tolerance is  $\pm 0.2\text{mm}$  unless otherwise noted
- An epoxy meniscus may extend about 1.5mm down the leads.

Unit: mm





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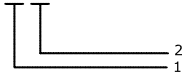
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## Code System:

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YSM-1288AXXC



### 1. Color:

R: Red A: Amber K: Kelly Y: Yellow  
G: Green C: Cyan P: Purple W: White

### 2. Wavelength or Color Temperature Range:

R1: 610-615nm G1: 512.5-515nm  
R2: 615-620nm G2: 515-517.5nm  
R3: 620-625nm

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## Warranty:

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- Electrical & Optical Characteristics consistency of same items all shipments.

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## Notes:

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- Please use Dot Matrix based on our datasheet.
- Dot Matrix is sensitive to statics, be sure your equipments are anti-static when you use our Dot Matrixs.
- Pay more attention to your heat dissipation system when you use it, the better heat dissipation, the longer Dot Matrix lifespan.