



WCN Opto Group Co., Ltd

**LED STRIP LIGHT**

Company Name

Date

2017/12/27

Part No.

WCN-FR3528NW2-120AP-55

Product Group  
Description

Customer Part No.

Approval Date

Customer  
Confirmation

Quality Dept.  
Confirmation

Engineering Dept.  
Confirmation

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2017/12/27

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**LED STRIP LIGHT****CONTENT**

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**VER. NO :** A0

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**LED STRIP LIGHT**
**REVISION RECORD**

| MARKER | Matter for revision          | SHEET                        | DTAE           | MAKER | APPOVED SIGN |             |  |
|--------|------------------------------|------------------------------|----------------|-------|--------------|-------------|--|
|        | Reason for revision          |                              |                |       |              |             |  |
| A0     | New Version issued           | WHOLE<br>SHEET               | 2017/12/<br>17 |       |              |             |  |
|        | P#WCN-FR3528NW2-12<br>0AP-55 |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
| REMARK |                              | P#<br>WCN-FR3528NW2-120AP-55 |                |       |              | PAGE:3 of 6 |  |

**LED STRIP LIGHT****Features :**

- Linear separable LED strip on flexible printed circuit board with self-adhesive back
- Long life ,easy installation
- Voltages available 12VDC
- LED: 120pcs 3528 White,
- PCB material : FPCB

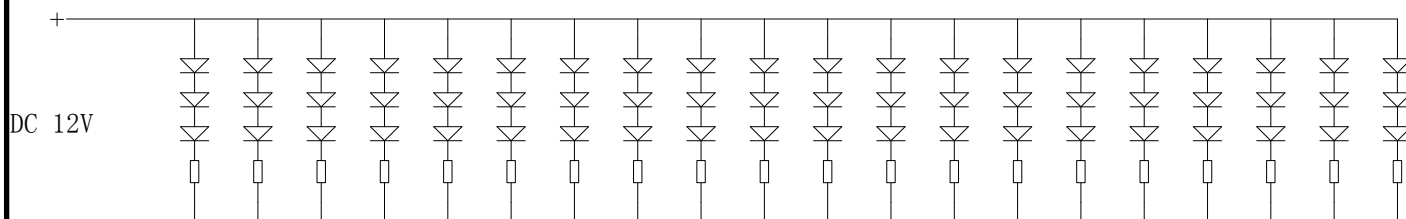
**Product Picture:**

| Part No                    | Color         | Surface Coating | Waterproof level | Q`ty of LEDs/M | Color Temp/Wavelength Typ(Kelvin/nm) | Luminous flux(LM/M) | Voltage (V DC) | Power (W/M) |
|----------------------------|---------------|-----------------|------------------|----------------|--------------------------------------|---------------------|----------------|-------------|
| WCN-FR3528NW2-1<br>20AP-55 | Natural White | With Silicon    | IP65             | 120            | 5000-5500K                           | 720-960             | 12             | 9.6         |

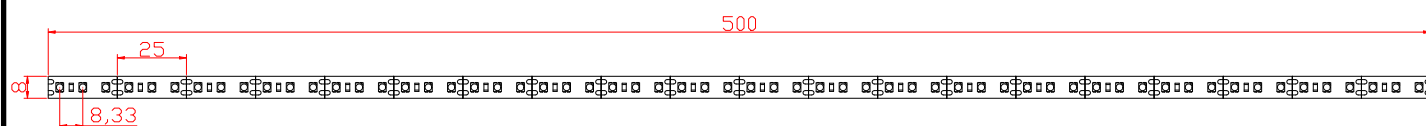
## LED STRIP LIGHT

| APPEARANCE  |             |                  | PCB Material      | FPCB              |
|-------------|-------------|------------------|-------------------|-------------------|
| Description | Lens Color  | Waterproof level | Led Emitted Color | Natural White     |
| White       | Water clear | IP 65            | Driver Mode       | 12V DC            |
|             |             |                  | Packing           | 5 meters per roll |

### ■ Circuit Diagram:



### ■ Outer Dimension:



Explain:  
 1. LED 3528 (PLCC4) 120LEDs/M  
 2. Resistance (1206 180) 18Ω 40LEDs/M  
 3. 12V Drive

**Notes: 1.UNLESS OTHERWISE STATED, THE TOLERANCE IS ±3MM.**

**LED STRIP LIGHT**
**ABSOLUTE MAXIMUM RATINGS AT TA=25°C**

| Parameter             | Symbol         | Rating                        | Units  |
|-----------------------|----------------|-------------------------------|--------|
| Input Voltage         | V              | 12 DC                         | V      |
| Forward Current       | I <sub>F</sub> | 16                            | mA/smd |
| Input Frequency       | F              | ---                           | Hz     |
| Power Dissipation     | P              | 9.6                           | W      |
| Operating Temperature | T <sub>e</sub> | -20~+40                       | °C     |
| Storage Temperature   | T <sub>s</sub> | -20~+60                       | °C     |
| Operating Humidity    | /              | 10 - 65% RH<br>NON-CONDENSING | /      |

**Typical Performance (Ta=25°C)**

| Item                                           | Symbol | Rating |       |      | Units  |
|------------------------------------------------|--------|--------|-------|------|--------|
|                                                |        | Min.   | Typ.  | Max. |        |
| Input Voltage                                  | V      | 10     | 12    | 14   | V      |
| Beam Pattern                                   | BP     | ---    | 120   | ---  | Deg    |
| Total Length                                   | L      | ---    | 5     | ---  | M/roll |
| Estimated Life [1]                             | Life   | ---    | 50000 | ---  | hour   |
| Optimized Thermal Management(Body Temperature) | /      | -20    | ---   | 40   | °C     |