



WCN Opto Group Co., Ltd

**LED STRIP LIGHT**

Company Name

Date

2017/12/27

Part No.

WCN-FR3528WW2-120AP-30

Product Group  
Description

Customer Part No.

Approval Date

Customer  
Confirmation

Quality Dept.  
Confirmation

Engineering Dept.  
Confirmation

ZhangChun  
2017/12/27

Prepared By

LiuGuo  
2017/12/27

Provenance: China

WCN Opto Group Co., Ltd

5th Floor,Block A-2,Xuxingda Ind Zone  
Shiyan Town,Bao An District , Shenzhen  
Tel : (86)755-29000022  
Fax : (86)755-29000023



www . wcnopto.net



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

| <b>ITEM</b> |                                                                       | <b>PAGE</b> |
|-------------|-----------------------------------------------------------------------|-------------|
| (1)         | <b>FACE OF SPECIFICATION</b>                                          | <b>1/6</b>  |
| (2)         | <b>CONTENT</b>                                                        | <b>2/6</b>  |
| (3)         | <b>REVISION RECORD</b>                                                | <b>3/6</b>  |
| (4)         | <b>FEATURES AND DESCRIPTION</b>                                       | <b>4/6</b>  |
| (5)         | <b>Outer Dimension and Circuit Diagram</b>                            | <b>5/6</b>  |
| (6)         | <b>ABSOLUTE MAXIMUM RATING AND ELECTRICAL/OPTICAL CHARACTERISTICS</b> | <b>6/6</b>  |

**SPEC . NO :** WCN-FR3528WW2-120AP-30

**DATE :** 2017/12/27

**VER. NO :** A0

**Page :** 2 of 6

**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-FR3528WW2-12<br>0AP-30 |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
|        |                              |                              |                |       |              |             |  |
| REMARK |                              | P#<br>WCN-FR3528WW2-120AP-30 |                |       |              | 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

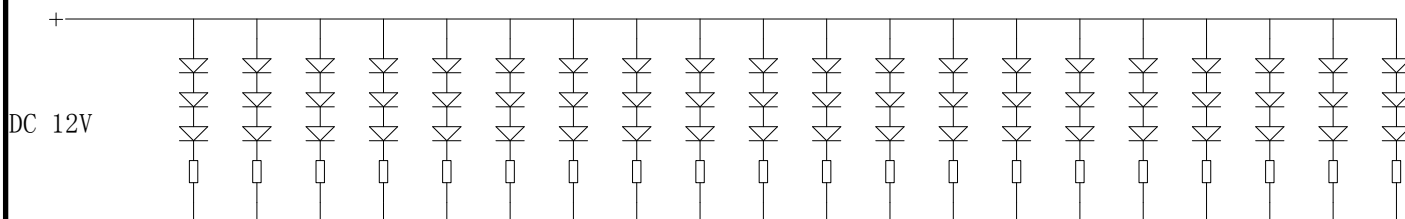
**Product Picture:**

| 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-FR3528WW2-120AP-30 | Warm White | With Silicon    | IP65             | 120            | 2750-3250K                           | 720-960             | 12             | 9.6         |

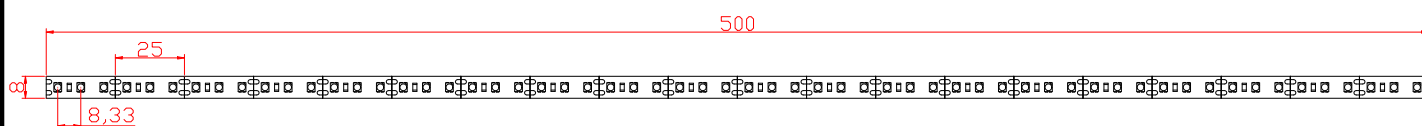
### LED STRIP LIGHT

| APPEARANCE  |             |                  | PCB Material      | FPCB              |
|-------------|-------------|------------------|-------------------|-------------------|
| Description | Lens Color  | Waterproof level | Led Emitted Color | Warm 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  $\pm 3$ MM.

**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     |