

## 2 Color 2 Pin RED BLUE LED Light 5mm LED Light Water Clear



### Description: Clear Transparent 2 Pin 5mm

2 Pin RED BLUE LED Light 5mm Red Blue LED Light Water Clear 5mm Round LED Light Emitting Diode 5mm LED Light Bulb Transparent LED Light 5mm LED Light Multi Color LED Blinking Light

These color-changing LEDs take the work out of creating crazy, flashy, blinkyness. Simply apply power and the LED will cycle through the RGB color space: no external controller necessary! These bright and festive LEDs make great decorations, LED “throwies”, indicator lights, etc. Typical forward voltage is 2V.

These 5mm LEDs are of the “slow-changing” variety, meaning they cycle at a rate of one color every few seconds.

### Product Parameter Summary

1. **Brand:** GDGLIGHT
2. **Model/Description:** F5 Red-Blue Bicolor Transparent Non-Polar
  - **F5:** Likely refers to the product series or brightness grade.
  - **Red-Blue Bicolor:** Indicates the LED can emit both red and blue light.
  - **Transparent:** The LED encapsulant is clear, offering a narrow viewing angle and focused light.
  - **Non-Polar:** This is a special **bi-directional LED**. It lacks a fixed anode/cathode, meaning it can operate with reverse polarity. Typically, it emits one color (e.g., red) with forward current and the other color (e.g., blue) with reverse current.

3. **Certification: RoHS**, confirming compliance with the EU Restriction of Hazardous Substances directive.
  4. **Product Code: GDG-5MMSURCUBC**
    - GDG: Brand Abbreviation
    - 5MM: 5mm LED Diameter
    - SURCUBC: Likely an internal code, potentially for "Super Clear Ultra Bright Color".
  5. **Reference:** The REF: and CAT: fields are blank, possibly used for internal tracking.
  6. **Package Quantity: QTY 1000**, meaning the standard packaging is 1000 pieces per bag/reel.
  7. **Lot Number: LOT NO: 202505011**, identifying the production batch (suggesting a production date of 2025-05-01 or similar).
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## Summary

This is a **5mm, transparent, red-blue bicolor, non-polar (bi-directional)** through-hole LED from GDGLIGHT. Its key features are:

- **Dual Color Emission:** Emits one color with forward current and the other with reverse current.
- **Non-Polar:** Simplifies installation in circuits as polarity doesn't need to be strictly observed.
- **Transparent Lens:** Provides a narrow viewing angle and higher perceived intensity.

This type of LED is commonly used for **status indicators, decorative lighting, toys, and instrument panels** where alternating between two states or colors is required.

For the datasheet or detailed technical parameters, please contact the **GDGLIGHT** supplier or search for the model **GDG-5MMSURCUBC** on their official website.

## Specifications:

- Lens Color: Water Clear
- Forward Voltage (V): 1.2-1.5
- Forward Current (mA): 25
- Luminous Intensity Typ Iv: 3000-4000 MCD
- Life Rating: 100,000 Hours

**Features:**

- Package: 5mm Round 2 pin
- Color: ultra-bright standard RB full color
- Lens: water clear flat mold
- Meet RoHS, green product
- Compatible with SMT automatic equipment
- Compatible with infrared reflow solder process

**Electrical optical characteristics at Ta=25°C**

- Luminous intensity (IV): red 2000-2000mcd, green 10000-12000mcd, blue 700-900mcd at 20mA
- Viewing angle (2 $\theta$ 1/2): 40° at 20mA
- Dominant wavelength ( $\lambda_d$ ): red 620-625nm, green 515-530nm, blue 460-470nm at 20mA
- Forward voltage (VFF): red 2.0-2.2V, green 2.8-3.0V, blue 3.0-3.2V at 20mA
- Reverse current (IR): 5uA, at VR=5V

**Applications:**

- Indicator light in all kinds of electronic products
- Full color RB display screen
- Backlight for automobile instrument
- Backlight for flat screen
- Backlight for all kinds of electronics products, such as TV, advertisement board
- Small display screen