# Bartheime TECHNICAL DATA SHEET

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# 240 pcs 5 mm Standard LED with 300 mm Cable assortment with LED mount and pre-resistor

### Item No.: 00430313

This range of experiments and practitioners with superbright standard LEDs with a diameter of 5 mm, approx. 30 cm flexible strands (stand on) and various series resistors is ideal for immediate start in experiments with semiconductor light. Through resistor combinations of parallel or series connection or varying the supply voltage, different operating currents (brightnesses) can be realized. Addition LED mounting clips for easy mount and installation onto casing or panel.

A brief description of the components contained is clearly printed on the inside of the lid.

### **Carbon Film Fixed Resistor**



Resistance - 220Ω, 470Ω, 680Ω, 1KΩ Rated Power - 0.25W Maximum Working Voltage - 250V Maximum Overload Voltage - 500V Dielectric Withstanding Voltage - 350V







Achtung: Leuchtdioden müssen immer durch Vorwiderstand oder Konstantstromquelle strombegrenzt werden! Attention: Do not drive LEDs without forward-current limitation (pre-resistor or constant current source)

| Light Source                   | Red           | Blue      | Green     | Yellow    | Cold White  | Warm White  |
|--------------------------------|---------------|-----------|-----------|-----------|-------------|-------------|
| Lens color                     | Diffuse       | Diffuse   | Diffuse   | Diffuse   | Water clear | Water clear |
| Chip material                  | Gap           | InGaAIP   | InGaAIP   | Gap       | InGaAIP     | InGapAIP    |
| Wavelength / color temperature | 620-625nm     | 460-470nm | 568-572nm | 587-590nm | 7000-9000K  | 2800-3200K  |
| Max. Luminous intensity        | 800 mcd       | 2000 mcd  | 120 mcd   | 800 mcd   | 14000 mcd   | 20000 mcd   |
| Viewing angle (typ.)           | 35°           | 35°       | 35°       | 35°       | 20°         | 25°         |
| Forward current (max.)         | 20 mA         | 30 mA     | 20 mA     | 30 m A    | 20 mA       | 20 mA       |
| Forward voltage (typ.)         | 2.0 V         | 3.0 V     | 3.0 V     | 2.0 V     | 3.0 V       | 3.0 V       |
| Operating temperature          | -25°C - 80°C  |           |           |           |             |             |
| Storage temperature            | -30°C - 100°C |           |           |           |             |             |

#### This is publication by Josef Barthelme GmbH & Co. KG • Oedenberger Str. 149 • 90491 Nürnberg (www.barthelme.de)

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