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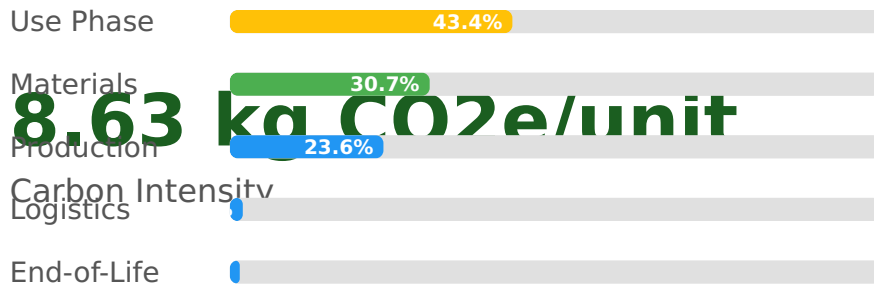
Product Carbon Footprint for ukvwkkxtde

8.63 kg CO2e / unit (Total PCF)

Report for **ukvwkkxtde** | Quantity: **1.0 unit** | Standard: **GHG Protocol** | Prod. Country: **China** | Boundary: **Factory Gate**

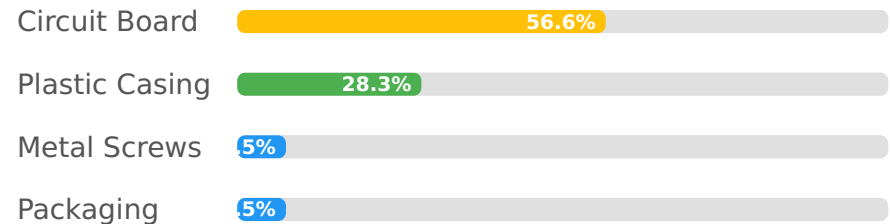
8.63 kg CO2e

Lifecycle Stage Breakdown



8.63 kg CO2e/unit

Material Carbon Impact



| Key Highlights

- The **Use Phase** is the largest contributor, accounting for 43.4% of the total carbon footprint, emphasizing the need for energy-efficient design.
- **Material Acquisition** is a significant hotspot (30.7%), with the Circuit Board and Plastic Casing being primary concerns.
- **Manufacturing energy** in China (23.6%) presents a substantial opportunity for carbon reduction through renewable energy adoption.

| How to Reduce Your Footprint

- **Detailed Data Collection:** Prioritize collecting primary data for all material inputs, transport, and energy consumption.
- **Energy Efficiency & Renewables:** Invest in energy-efficient manufacturing and increase renewable energy sourcing, especially in China.
- **Sustainable Material Sourcing:** Explore materials with lower embedded carbon, increased recycled content, and certified sustainable origins.
- **Optimized Logistics:** Analyze and optimize transport routes, modes, and vehicle utilization to reduce transport emissions.
- **Circular Economy:** Further develop and quantify take-back programs to maximize recycling and capture avoided emissions benefits.
- **Life Cycle Design:** Integrate PCF insights into product design to prioritize lower environmental impacts throughout the lifecycle.