

erouksvfiq Carbon Footprint Dashboard

71.90 kg CO₂e
Total Product Footprint

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71.90 kg CO₂e

Carbon Intensity

71.90 kg CO₂e / unit

Top Material Hotspot

PCBA (5.00 kg CO₂e)

Primary Emission Scope

Scope 3 (68.06 kg CO₂e)

Lifecycle Stage Breakdown

Use Phase	62.05 kg CO2e (86.30%)
Upstream Materials	6.07 kg CO2e (8.44%)
Production Energy (Scope 2)	3.84 kg CO2e (5.34%)
Downstream Transport (Last-Mile)	0.20 kg CO2e (0.28%)
Upstream Transport	0.02 kg CO2e (0.03%)
End-of-Life (Carbon Credit)	-0.28 kg CO2e (-0.39%)

Key Highlights

- Use Phase dominates the carbon footprint, accounting for over 86% of total emissions due to energy consumption over the product's lifespan.
- Upstream materials, particularly the PCBA, are a significant contributor within the Scope 3 category, highlighting the impact of component sourcing.
- The product benefits from a carbon credit at End-of-Life, driven by robust recyclability and circular economy programs, reducing the overall footprint.

Action Plan: How to Reduce Carbon Footprint

- 1 Optimize Use Phase Energy Efficiency:** Redesign erouksvfiq to drastically reduce its energy consumption during its operational lifespan, e.g., via more efficient components or lower power modes.
- 2 Low-Carbon Material Sourcing:** Collaborate with suppliers to integrate lower-carbon alternatives for key components (plastics, metals) or explore recycled content with lower embodied emissions.
- 3 Increase Renewable Energy Procurement:** Further increase the percentage of renewable energy used in manufacturing processes in China to significantly reduce Scope 2 emissions.
- 4 Enhance Circular Economy Initiatives:** Expand and promote circular/take-back programs to achieve higher material recovery and recycling rates, maximizing end-of-life credits.
- 5 Lifecycle Assessment for Design:** Integrate PCF results into product design and development processes to enable proactive emission reduction at early stages.

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