

# Product Carbon Footprint Dashboard

Product: **pkmnsmlom**

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Total Product Footprint

**53.69** kg CO2e

Carbon Intensity

**53.69** kg CO2e/unit

Top Material Hotspot

**Circuit Board** (1.50 kg CO2e)

Primary Emission Scope

**Scope 3** (95.38%)

## Lifecycle Stage Breakdown

- **Dominant Use Phase Impact:** The product's operational energy consumption accounts for 89.0% of its total carbon footprint, making it the primary area for intervention.
- **Significant Material Footprint:** Raw material and component production, particularly for the Circuit Board and Housing, is the second largest contributor (6.7%).
- **High Scope 3 Dependence:** Over 95% of emissions fall under Scope 3, emphasizing the need for value chain engagement and supplier collaboration for reduction efforts.

## Action Plan: Reduction Strategies

- **Enhance Energy Efficiency:** Redesign for lower operational energy usage and integrate smart energy-saving features.
- **Material Circularity:** Prioritize lighter, lower embodied carbon materials, increase recycled content, and strengthen take-back programs.
- **Renewable Energy Adoption:** Increase renewable energy sourcing at manufacturing facilities, especially in China.
- **Logistics Optimization:** While a smaller hotspot, optimizing freight modes, consolidating shipments, and routes can still yield reductions.