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# Product Carbon Footprint Dashboard for "emflmzxlpe"

**20.59 kgCO<sub>2</sub>e**  
Total Carbon Footprint

Total Footprint

**20.59 kgCO2e**

Functional Unit

**1.0 unit**

Top Material Hotspot

**Electronic Board**

Primary Emission Scope

**Scope 3**

## Lifecycle Stage Breakdown

Use Phase	57.80% (11.90 kgCO <sub>2</sub> e)
Purchased Goods & Services	31.33% (6.45 kgCO <sub>2</sub> e)
Production Energy (Scope 2)	9.45% (1.946 kgCO <sub>2</sub> e)
Upstream Transportation	1.37% (0.2815 kgCO <sub>2</sub> e)
End-of-Life Treatment	0.05% (0.0099 kgCO <sub>2</sub> e)

## Material Carbon Impact

Electronic Board	77.52% (5.00 kgCO <sub>2</sub> e)
Plastic Casing	19.38% (1.25 kgCO <sub>2</sub> e)
Packaging	3.10% (0.20 kgCO <sub>2</sub> e)

Note: Percentages are relative to the total "Purchased Goods and Services" emissions (6.45 kgCO<sub>2</sub>e).

## Highlights & Key Insights

- The **Use Phase** is the most significant contributor to the product's footprint, accounting for 57.80% of total emissions, primarily due to assumed electricity consumption over its lifespan.
- **Purchased Goods and Services**, particularly the Electronic Board, represent the second largest hotspot at 31.33% of the total PCF, emphasizing the impact of material choices.
- With 95% coverage for Scope 3 reporting, the analysis provides a comprehensive cradle-to-grave view, highlighting significant downstream impacts.

## Action Plan for Reduction

- **Enhance Energy Efficiency:** Focus design efforts on drastically reducing energy consumption during the product's use phase to mitigate the largest emission hotspot.
- **Sustainable Sourcing:** Prioritize suppliers with lower carbon footprints for raw materials, especially for components like electronic boards, and consider alternative, lower-impact materials.
- **Improve Data Granularity:** Implement robust primary data collection for BOM, transport, and energy consumption to refine emission factors and ensure accurate future assessments.

