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Product Carbon Footprint (PCF) Dashboard for jzhnzhnyvq

Total PCF:

22.32 kg CO2e

per unit

Key Metrics

Total Carbon Footprint

22.32 kg CO2e

per 1.0 unit of jzhnzhnyvq

Carbon Intensity

22.32 kg CO2e/unit

functional unit

Top Material Hotspot

PCB

3.0 kg CO2e within materials

Primary Emission Scope

Scope 3

22.11 kg CO2e

Emissions Breakdown

Lifecycle Stage Breakdown (Gross Emissions)

Use Phase	12.5 kg CO2e (51.06%)
Materials (Purchased Goods)	6.35 kg CO2e (25.94%)
Logistics (Transport)	5.24 kg CO2e (21.40%)
Production (Scope 1 & 2)	0.21 kg CO2e (0.86%)
End-of-Life (Disposal)	0.18 kg CO2e (0.74%)

Gross emissions before End-of-Life credits. Total Gross Emissions: 24.48 kg CO2e.
Net End-of-Life credit: -2.16 kg CO2e (reduces overall footprint).

Material Carbon Impact Breakdown

PCB	3.0 kg CO2e (47.24%)
Aluminum Casing	2.5 kg CO2e (39.37%)
Plastic Housing	0.5 kg CO2e (7.87%)
Copper Wire	0.35 kg CO2e (5.51%)

Breakdown of total material emissions (6.35 kg CO2e).

Highlights

- The Use Phase is the most significant contributor, accounting for **12.5 kg CO2e**, primarily due to the product's energy consumption over its lifespan.
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