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Product Carbon Footprint Analysis

for **hfzutysqxy** (GHG Protocol, Cradle-to-Grave)

80.04 kg CO₂e

per 1.0 unit (hfzutysqxy)

80.04 kg

Total Carbon Footprint

80.04 kg CO2e / unit

Carbon Intensity

Electronic Components

Top Material Hotspot (83% of Material PCF)

Use Phase

Primary Emission Stage (75% of Total PCF)

Lifecycle Stage Breakdown

Use Phase	60.00 kgCO2e (75.0%)
Purchased Goods & Services (Materials)	12.05 kgCO2e (15.1%)
Downstream Transportation	10.14 kgCO2e (12.7%)
Purchased Electricity (Manufacturing)	7.50 kgCO2e (9.4%)
Upstream Transportation	0.40 kgCO2e (0.5%)
End-of-Life Treatment	-0.05 kgCO2e (Net Credit)

Recommendations for Decarbonization

Optimize Use Phase Efficiency: Prioritize product redesigns to drastically reduce energy consumption during its 5-year lifespan.

Enhance Material Circularity & Sourcing: Investigate lower-carbon alternative materials for high-impact components and strengthen supplier engagement.

Decarbonize Logistics: Evaluate shifting last-mile delivery to lower-emission alternatives and optimize transport routes.

Increase Renewable Energy in Production: Aim for 100% renewable electricity in manufacturing facilities to eliminate Scope 2 emissions.

Strengthen Circular Economy Programs: Maximize actual recycling rates and explore repair/refurbishment models to extend product lifespan.

Prepare for LSR Standard: Proactively assess the supply chain for direct/indirect land-sector impacts for future PCF analyses.