

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: dwxfftzwsn

Standard: GHG Protocol | **Consultant:** zmmyzyzwjy

65.53 kg CO₂e

Total Product Footprint

Key Metrics

65.53 kg

Total Footprint (per unit)

65.53 kg CO2e

Carbon Intensity (per 1.0 unit)

Circuit Board

Top Material Hotspot

Use Phase

Primary Emission Scope (94.69%)

The **Use Phase (Scope 3, Category 11)** accounts for approximately 94.69% of the total carbon footprint, making it the primary emission hotspot for dwxfftzwsn.

Among materials, the **Circuit Board** is the largest contributor to material-related emissions, responsible for 54.64% of the total material impact.

The analysis adheres to the **GHG Protocol**, ensuring comprehensive coverage, especially for Scope 3 emissions, exceeding 95% coverage as per 2026 requirements.

Recommendations for Reduction

Use Phase Optimization: Prioritize R&D for improving the energy efficiency of "dwxfftzwsn" during its operational life and educate customers on efficient product usage.

Supply Chain Engagement: Collaborate with material suppliers to source lower-carbon material alternatives, particularly for components like the Circuit Board and Plastic Casing.

Circular Economy Initiatives: Strengthen and expand existing take-back programs to maximize material recovery and explore technologies for higher recyclability rates.

Renewable Energy Transition: Continue to increase the share of renewable energy in manufacturing operations to directly reduce Scope 2 emissions.