

Product Carbon Footprint Verification Opinion

is awarded to

KINWONG ELECTRONIC TECHNOLOGY(ZHUHAI) CO.,LTD

Bureau Veritas Certification (Beijing) Co., Ltd. was engaged by KINWONG ELECTRONIC TECHNOLOGY(ZHUHAI) CO.,LTD to conduct an independent verification of its product carbon footprint. This verification opinion applies to the related information included within the scope of work described below.

Boundaries covered by the verification:

- Verified product name: Rigid six-layer printed circuit board (PL0161129B)
- Product production address: No.801,Nanshui Avenue,Nanshui Town,Jinwan District, Zhuhai City, Guangdong Province, China
- Declared unit: A rigid six-layer printed circuit board (PL0161129B).
- System boundary: The life cycle (from cradle to gate) process GHG emission of A rigid six-layer printed circuit board (PL0161129B) produced in KINWONG ELECTRONIC TECHNOLOGY(ZHUHAI) CO.,LTD, including raw material acquisition, raw material transportation, core production process and product transportation.
- Time boundary for data: 01/01/2024 to 31/12/2024

Re-verification conditions: re-verification shall be applied when Greenhouse Gas emissions in the life cycle of the product has 5% or more than 5% planned changes or has more than 10% unplanned changes, and these changes continue for more than 3 months.

Verification standards:

- ISO 14067:2018 Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification
- ISO 14064-3:2019 Greenhouse gases - Part 3: Specification with guidance for the verification and validation of greenhouse gas statements

Level of assurance:

- Reasonable assurance

Methods of verification:

- Interview for relevant personnel;
- Review of the documentary evidence;
- Evaluation of the methodology and information systems for data collection, aggregation, analysis and review;
- Audit of sampled sites and data to verify source.

Verification conclusion:

- Greenhouse Gas emission in the life cycle (from cradle to gate) of a rigid six-layer printed circuit board (PL0161129B): 37.75 kgCO₂e/pcs .

Based on the verification process and findings, the quantification method and result of product carbon footprint for a rigid six-layer printed circuit board (PL0161129B) reported from KINWONG ELECTRONIC TECHNOLOGY(ZHUHAI) CO.,LTD is in compliance with ISO 14067:2018 Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification.

Statement of independence, impartiality and competence

Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 190 years history in providing independent assurance services.

No member of the verification team has a business relationship with KINWONG ELECTRONIC TECHNOLOGY(ZHUHAI) CO.,LTD and its directors or managers beyond that required by this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

Lead verifier: *Huijie Huang*

No.: EMI25931770GZ

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Expiry date: 21/04/2027

*Signed on behalf of
Bureau Veritas Certification (Beijing) Co., Ltd.*