Verification Report

No.: CANEC25020001301 **Date:** Sep 09, 2025

Client Name: FuYanSheng Electronic (FuJian) Co ., Ltd.

Client Address: Building 10, Zone A, Junhe Yungu Southeast Science and Technology Innovation Base, No.33. Liugiao Road, Shangiie Town, Minhou County, Fuiian Province

Sample Name: Io module

Tested Basic Model No.: FNI ECT-316-006-K54

Tested Extended Model No.: FNI IOL-106-004-K024

Client Ref. Information: FNI XXX-XXX-XXX-XXX，FNI XXX-XXX-XXX-XXXX，FNI XXX-XXX-XXX-XXX-X，FNI XXX-XXX-XXX-XXXX-X

The above sample(s) and information were provided by the client.

SGS Job No.: XMP25-003737

Sample Receiving Date: Aug 14, 2025

Verification Period: Aug 14, 2025 ~ Sep 09, 2025

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s): Please refer to next page(s).

Verification Result(s): Please refer to next page(s).

Test Result Summary:

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Liao
Approved Signatory

Scan to see the report

DC8FB6B9

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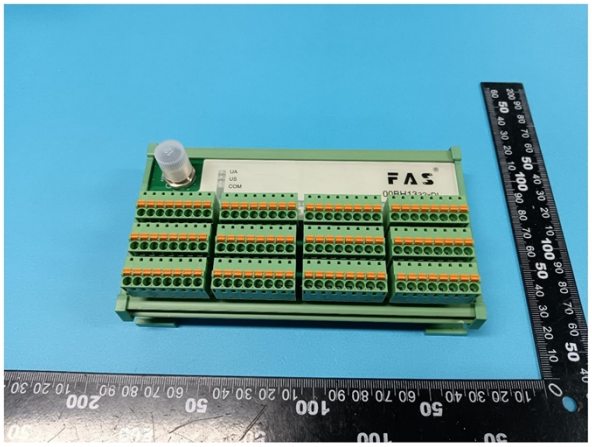
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Photo of Submitted Sample



FNI ECT-316-006-K54



FNI IOL-106-004-K024

Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
   (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
   (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC

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62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.

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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0200013-0001.C001	Silvery metal screw
SN2	A2	CAN25-0200013-0001.C002	Light grey plastic shell with grey printing
SN3	A3	CAN25-0200013-0001.C003	Transparent plastic part
SN4	A4	CAN25-0200013-0001.C004	Beige surfaced plastic sheet with black printing
SN5	A5	CAN25-0200013-0001.C005	Silvery metal screw
SN6	A6	CAN25-0200013-0001.C006	Transparent plastic sheet
SN7	A7	CAN25-0200013-0001.C007	Black plastic knob
SN8	A8	CAN25-0200013-0001.C008	White plastic part
SN9	A9	CAN25-0200013-0001.C009	Silvery metal screw
SN10	A10	CAN25-0200013-0001.C010	Black rubber ring
SN11	A11	CAN25-0200013-0001.C011	Black plastic part
SN12	A12	CAN25-0200013-0001.C012	Silvery metal tube
SN13	A13	CAN25-0200013-0001.C013	Green rubber ring
SN14	A14	CAN25-0200013-0001.C014	Silvery/golden metal pin
SN15	A15	CAN25-0200013-0001.C015	Silvery metal nut
SN16	A16	CAN25-0200013-0001.C016	Black rubber ring
SN17	A17	CAN25-0200013-0001.C017	Transparent plastic part
SN18	A18	CAN25-0200013-0001.C018	Silvery metal ring
SN19	A19	CAN25-0200013-0001.C019	Dark brown body (chip capacitor)
SN20	A20	CAN25-0200013-0001.C020	Black body with white printing
SN21	A21	CAN25-0200013-0001.C021	Black body
SN22	A22	CAN25-0200013-0001.C022	Black body
SN23	A23	CAN25-0200013-0001.C023	Black plastic part
SN24	A24	CAN25-0200013-0001.C024	Silvery/golden metal pin
SN25	A25	CAN25-0200013-0001.C025	Brown body (chip capacitor)
SN26	A26	CAN25-0200013-0001.C026	Black plastic part
SN27	A27	CAN25-0200013-0001.C027	Black body
SN28	A28	CAN25-0200013-0001.C028	Pink plastic button
SN29	A29	CAN25-0200013-0001.C029	Black plastic shell with beige printing
SN30	A30	CAN25-0200013-0001.C030	Golden metal pin
SN31	A31	CAN25-0200013-0001.C031	Dark grey plastic part
SN32	A32	CAN25-0200013-0001.C032	Golden metal pin
SN33	A33	CAN25-0200013-0001.C033	Golden/silvery metal part
SN34	A34#	CAN25-0200013-0001.C034	Black body
SN35	A35	CAN25-0200013-0001.C035	Black body
SN36	A36	CAN25-0200013-0001.C036	Dark brown body (chip capacitor)
SN37	A37	CAN25-0200013-0001.C037	Green "PCB"
SN38	A38.1	CAN25-0200013-0001.C038.C001	Silvery metal wire (solder) (A38 improved sample submitted by 2025-8-28)
SN39	A39	CAN25-0200013-0001.C039	Black surfaced metal shell
SN40	A40	CAN25-0200013-0001.C040	Black surfaced metal part
SN41	A41	CAN25-0200013-0001.C041	Silvery metal nut
SN42	A42	CAN25-0200013-0001.C042	Golden metal screw
SN43	A43	CAN25-0200013-0001.C043	White plastic part
SN44	A44	CAN25-0200013-0001.C044	Green plastic part
SN45	A45	CAN25-0200013-0001.C045	Silvery metal pin

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SN ID	Sample No.	SGS Sample ID	Description
SN46	A46	CAN25-0200013-0001.C046	Black body
SN47	A47	CAN25-0200013-0001.C047	Black body
SN48	A48	CAN25-0200013-0001.C048	Black body
SN49	A49	CAN25-0200013-0001.C049	Green "PCB"
SN50	A50	CAN25-0200013-0001.C050	Black body with orange printing
SN51	A51	CAN25-0200013-0001.C051	Silvery metal solder
SN52	A52	CAN25-0200013-0001.C052	Dark brown body (chip capacitor)
SN53	A53	CAN25-0200013-0001.C053	Brown body (chip capacitor)
SN54	A54	CAN25-0200013-0001.C054	Green plastic part
SN55	A55	CAN25-0200013-0001.C055	White translucent plastic cover
SN56	A56	CAN25-0200013-0001.C056	Beige surfaced plastic sheet with black printing
SN57	A57	CAN25-0200013-0001.C057	Green plastic part
SN58	A58	CAN25-0200013-0001.C058	Orange plastic part
SN59	A59	CAN25-0200013-0001.C059	Silvery metal part
SN60	A60	CAN25-0200013-0001.C060	Silvery metal pin
SN61	A61	CAN25-0200013-0001.C061	Transparent adhesive plastic sheet
SN62	A62	CAN25-0200013-0001.C062	Green plastic part
SN63	A63	CAN25-0200013-0001.C063	Green plastic part
SN64	A64	CAN25-0200013-0001.C064	Green plastic part
SN65	A65	CAN25-0200013-0001.C065	Silvery metal tube
SN66	A66	CAN25-0200013-0001.C066	Black plastic part
SN67	A67	CAN25-0200013-0001.C067	Silvery adhesive plastic sheet with black printing
SN68	A68	CAN25-0200013-0001.C068	Silvery metal screw
SN69	A69	CAN25-0200013-0001.C069	Brown body (chip capacitor)
SN70	A70	CAN25-0200013-0001.C070	Grey plastic part
SN71	A71	CAN25-0200013-0001.C071	Yellow body
SN72	A72	CAN25-0200013-0001.C072	Black body
SN73	A73	CAN25-0200013-0001.C073	Black body
SN74	A74	CAN25-0200013-0001.C074	Black body
SN75	A75	CAN25-0200013-0001.C075	Brown body (chip capacitor)
SN76	A76	CAN25-0200013-0001.C076	Green "PCB"
SN77	A77	CAN25-0200013-0001.C077	Silvery metal solder

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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	BL	---	BL	BL	BL
PBDE	---	BL	BL	BL	---	BL	BL	BL
DEHP	---	BL	BL	BL	---	BL	BL	BL
BBP	---	BL	BL	BL	---	BL	BL	BL
DBP	---	BL	BL	BL	---	BL	BL	BL
DIBP	---	BL	BL	BL	---	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	28190▲	BL	BL	28343▲	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	51	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	---	BL	---	---	BL
PBDE	---	BL	BL	---	BL	---	---	BL
DEHP	---	BL	BL	---	BL	---	---	BL
BBP	---	BL	BL	---	BL	---	---	BL
DBP	---	BL	BL	---	BL	---	---	BL
DIBP	---	BL	BL	---	BL	---	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	17308▲	BL	BL	OL▲	ND	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	ND	BL	BL
PBB	BL	---	BL	BL	BL	BL	ND	---
PBDE	BL	---	BL	BL	BL	BL	ND	---
DEHP	BL	---	BL	BL	BL	BL	ND	---
BBP	BL	---	BL	BL	BL	BL	ND	---
DBP	BL	---	BL	BL	BL	BL	ND	---
DIBP	BL	---	BL	BL	BL	BL	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Pb	BL	BL	OL▲	BL	BL	24242▲	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL

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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	BL	BL	BL	BL	BL	---	BL	---
PBDE	BL	BL	BL	BL	BL	---	BL	---
DEHP	BL	BL	BL	BL	BL	---	BL	---
BBP	BL	BL	BL	BL	BL	---	BL	---
DBP	BL	BL	BL	BL	BL	---	BL	---
DIBP	BL	BL	BL	BL	BL	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A33	A34#	A35	A36	A37	A38.1	A39	A40
Pb	BL	ND	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBB	---	BL	ND	BL	ND	---	---	---
PBDE	---	BL	ND	BL	ND	---	---	---
DEHP	---	BL	ND	BL	ND	---	---	---
BBP	---	BL	ND	BL	ND	---	---	---
DBP	---	BL	ND	BL	ND	---	---	---
DIBP	---	BL	ND	BL	ND	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A41	A42	A43	A44	A45	A46	A47	A48
Pb	BL	28632▲	BL	BL	BL	OL▲	BL	OL▲
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBB	---	---	BL	ND	---	BL	ND	BL
PBDE	---	---	BL	ND	---	BL	ND	BL
DEHP	---	---	BL	ND	---	BL	ND	BL
BBP	---	---	BL	ND	---	BL	ND	BL
DBP	---	---	BL	ND	---	BL	ND	BL
DIBP	---	---	BL	ND	---	BL	ND	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	ND	ND	---	BL	BL	BL	BL	BL
PBDE	ND	ND	---	BL	BL	BL	BL	BL
DEHP	ND	ND	---	BL	BL	BL	BL	BL
BBP	ND	ND	---	BL	BL	BL	BL	BL
DBP	ND	ND	---	BL	BL	BL	BL	BL
DIBP	ND	ND	---	BL	BL	BL	BL	BL

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Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A57	A58	A59	A60	A61	A62	A63	A64
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	BL	BL	BL	BL
PBB	BL	ND	---	---	BL	BL	BL	BL
PBDE	BL	ND	---	---	BL	BL	BL	BL
DEHP	BL	ND	---	---	BL	BL	BL	BL
BBP	BL	ND	---	---	BL	BL	BL	BL
DBP	BL	ND	---	---	BL	BL	BL	BL
DIBP	BL	ND	---	---	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A65	A66	A67	A68	A69	A70	A71	A72
Pb	26619▲	BL	BL	BL	BL	BL	BL	OL▲
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	52	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	---	BL	BL	BL	BL
PBDE	---	BL	BL	---	BL	BL	BL	BL
DEHP	---	BL	ND	---	BL	BL	BL	BL
BBP	---	BL	ND	---	BL	BL	BL	BL
DBP	---	BL	ND	---	BL	BL	BL	BL
DIBP	---	BL	ND	---	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A73	A74	A75	A76	A77
Pb	OL▲	OL▲	BL	BL	BL
Hg	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL
PBB	ND	ND	BL	ND	---
PBDE	ND	ND	BL	ND	---
DEHP	ND	ND	BL	ND	---
BBP	ND	ND	BL	ND	---
DBP	ND	ND	BL	ND	---
DIBP	ND	ND	BL	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS

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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials
Cd	BL≤(70-3σ)<X<(130+3σ)≤OL	BL≤(70-3σ)<X<(130+3σ)≤OL	LOD<X<(150+3σ)≤OL
Pb	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Br	BL ≤ (300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is “inconclusive”.

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL= Over Limit, IN (The symbol X marks the region)=Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.
MDL of Cr(VI) for metal sample is 0.10 μg/cm².

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus

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Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
(5) IEC 62321 series is equivalent to EN 62321 series.

(6) IEC 62321-1:2013, IEC 62321-2:2021 and screening method of Phthalates are not accredited by CNAS.

(7)▲= According to the declaration from the client,
Lead (Pb) in No.A12, No.A15, No.A18, No.A30, No.A42, No.A65 are exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.
Lead (Pb) in No.A21, No.A27, No.A46, No.A48, No.A72, No.A73, No.A74 are exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(c)-I|: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
More information about exemption can be found via the following link:
https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf

(8) #=According to the declaration from applicant, the materials of No.A34 are the same as those in No.A22, and its results for support the results of No.A34. The applicant will take the responsibility of all discrepancy and risk.

(9) According to the declaration from applicant, the materials of other parts in Model “FNI IOL-106-004-K024” are the same as those in Model “FNI ECT-316-006-K54”, and the results of Model “FNI ECT-316-006-K54” for support the results of other parts in Model “FNI IOL-106-004-K024”. The applicant will take the responsibility of all discrepancy and risk.

The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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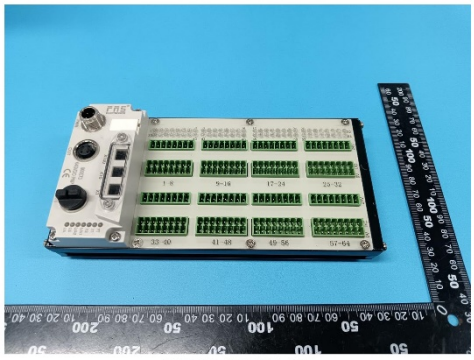
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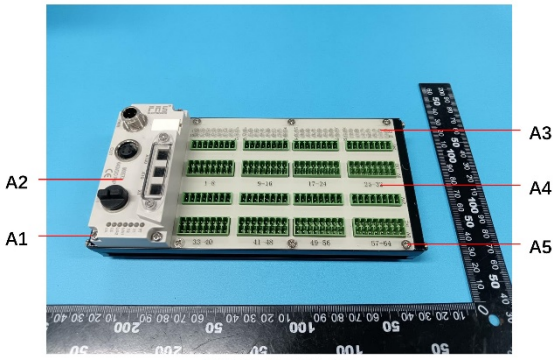
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Sample photos:

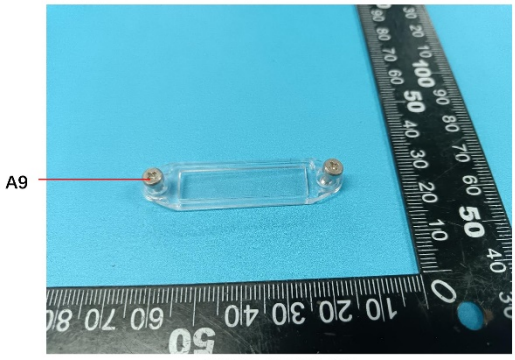

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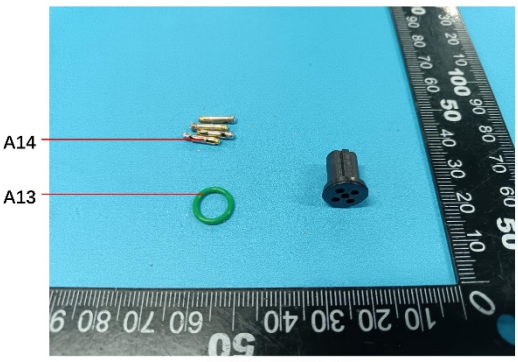
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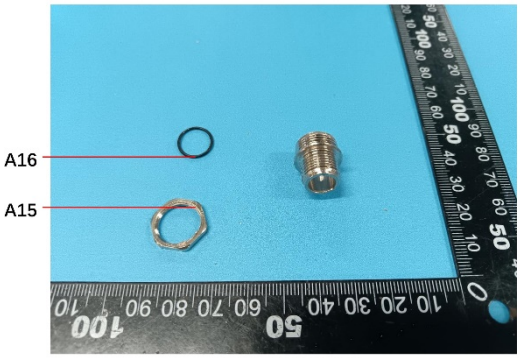


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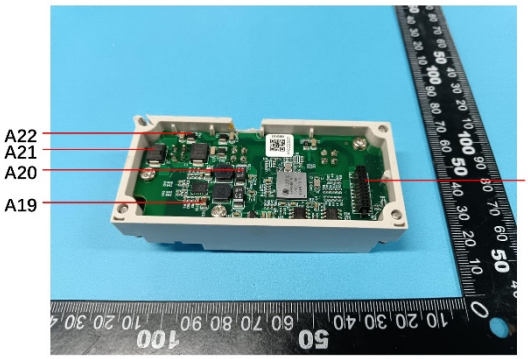
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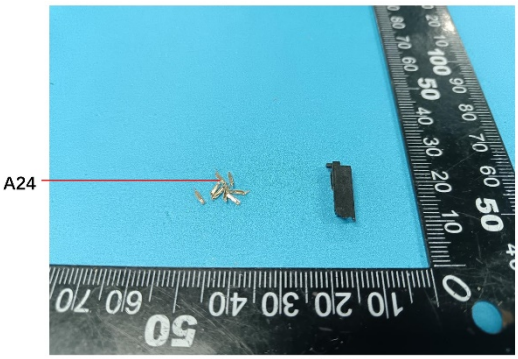
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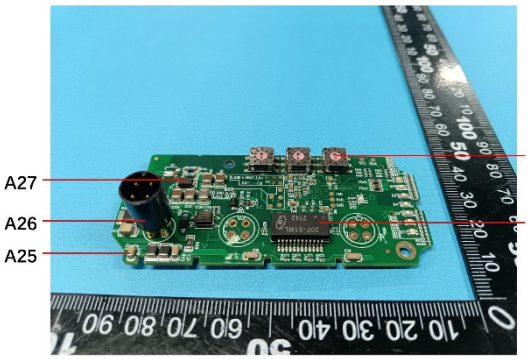
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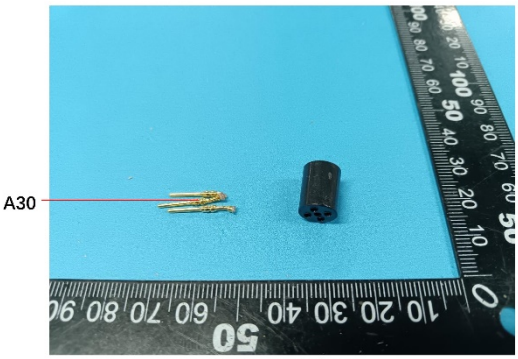
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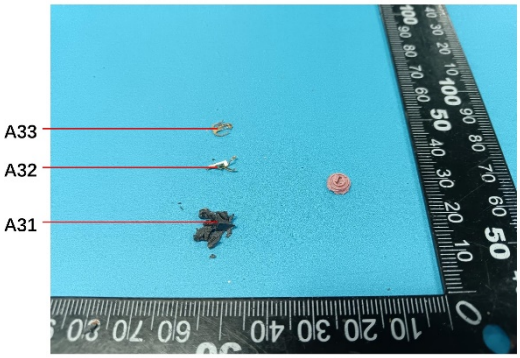


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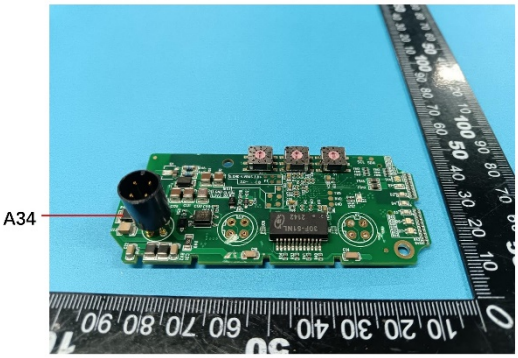
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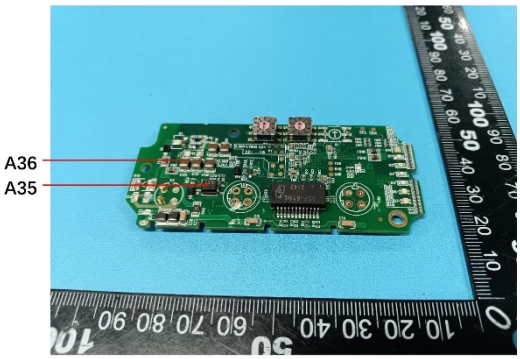
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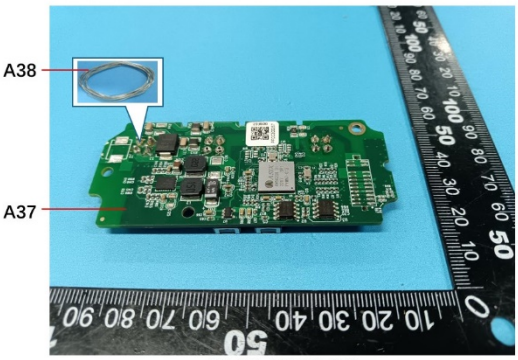
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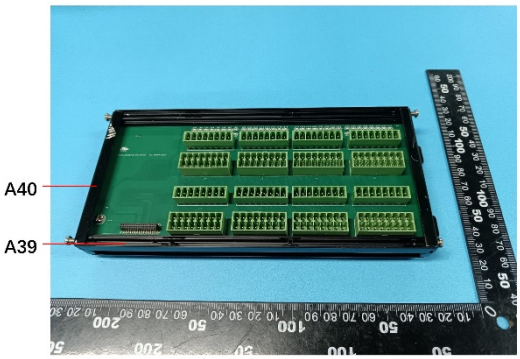
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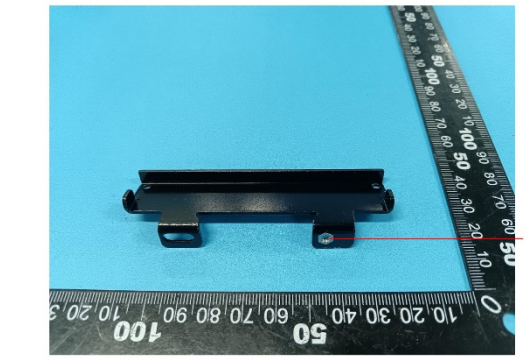
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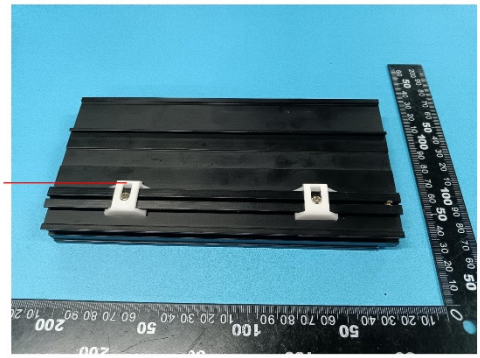
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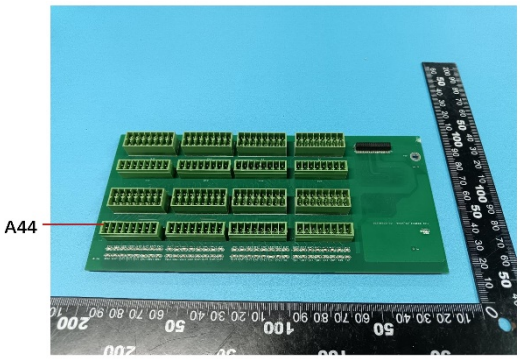
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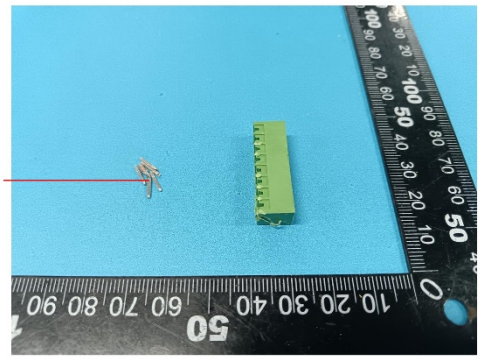
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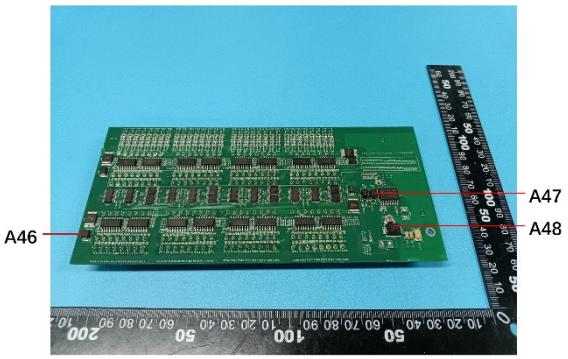
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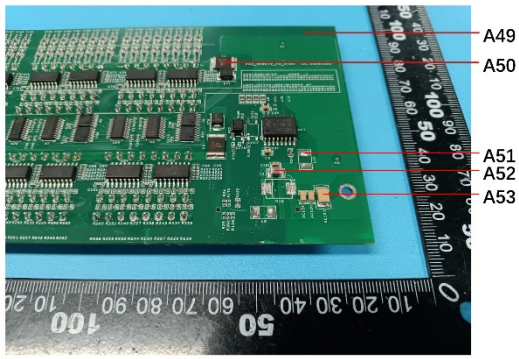
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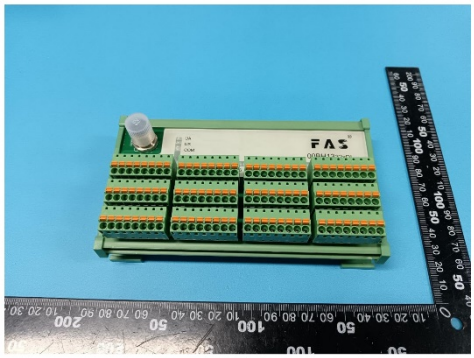
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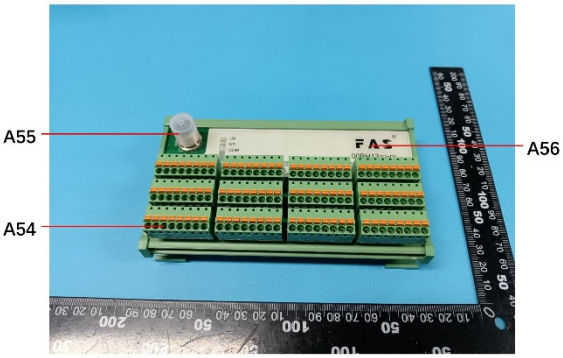
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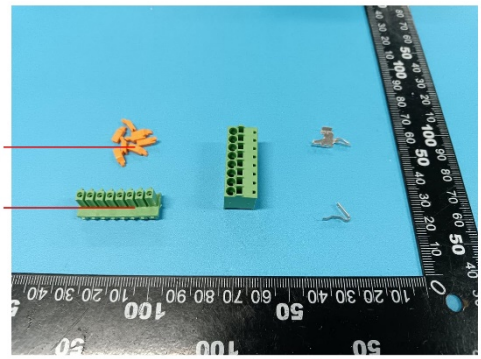
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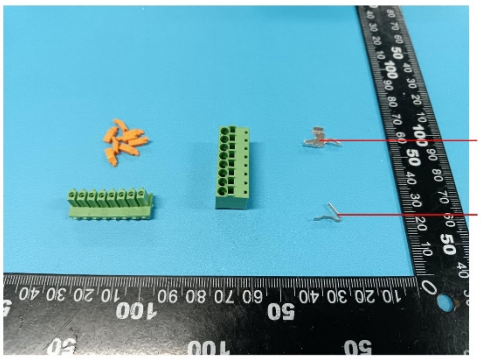

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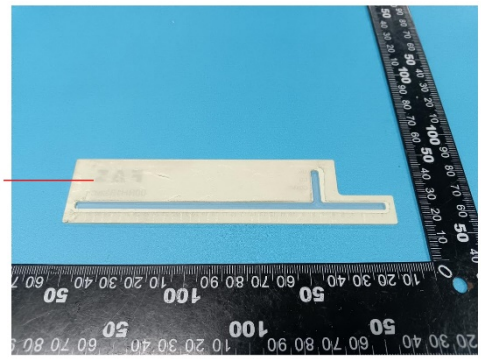
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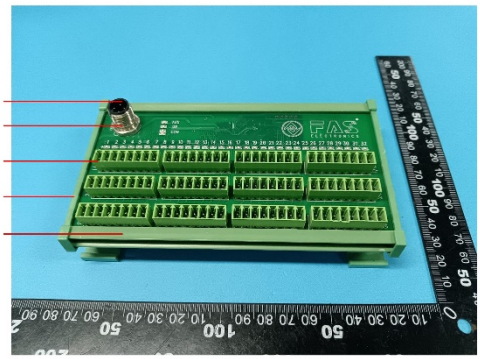
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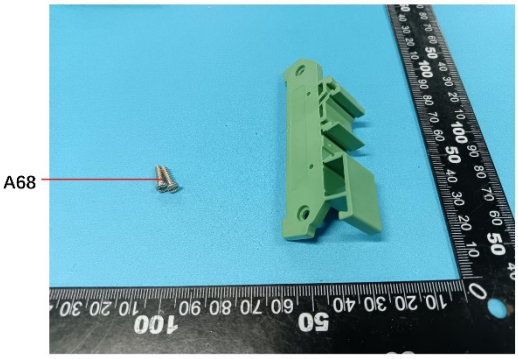
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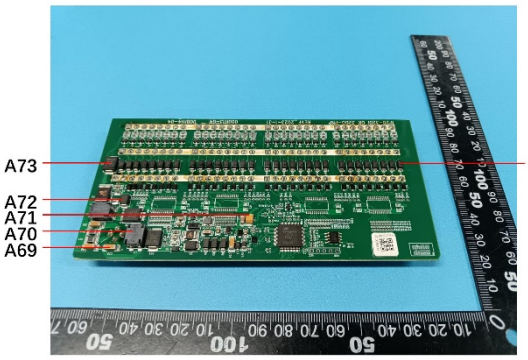
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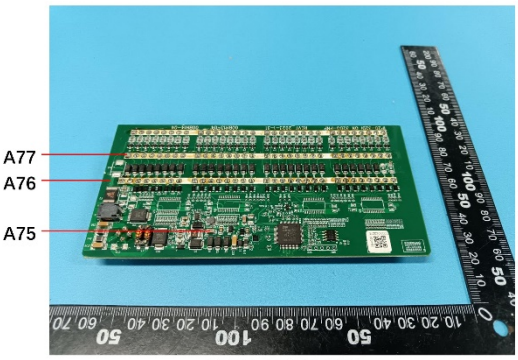
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