

Verification Report No.: CKGEC24001317601 Date: Jan 02, 2025 Page 1 of 10

Client Name: TECH SEMICONDUCTORS CO.,LTD
Client Address: NO.162 SHENGLI STREET,XIANG CITY, HUBEI PROVINCE,CHINA

Sample Name: Power module (soldering module)
Tested Basic Model No.: MTC110A
Client Ref. Information: See attachment

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

SGS Job No.: CQP24-012546
Sample Receiving Date: Nov 20, 2024
Verification Period: Nov 20, 2024 ~ Dec 20, 2024
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 (Chongqing) Co., Ltd.

Eason Su

Eason Su
Approved Signatory

scan to see the report



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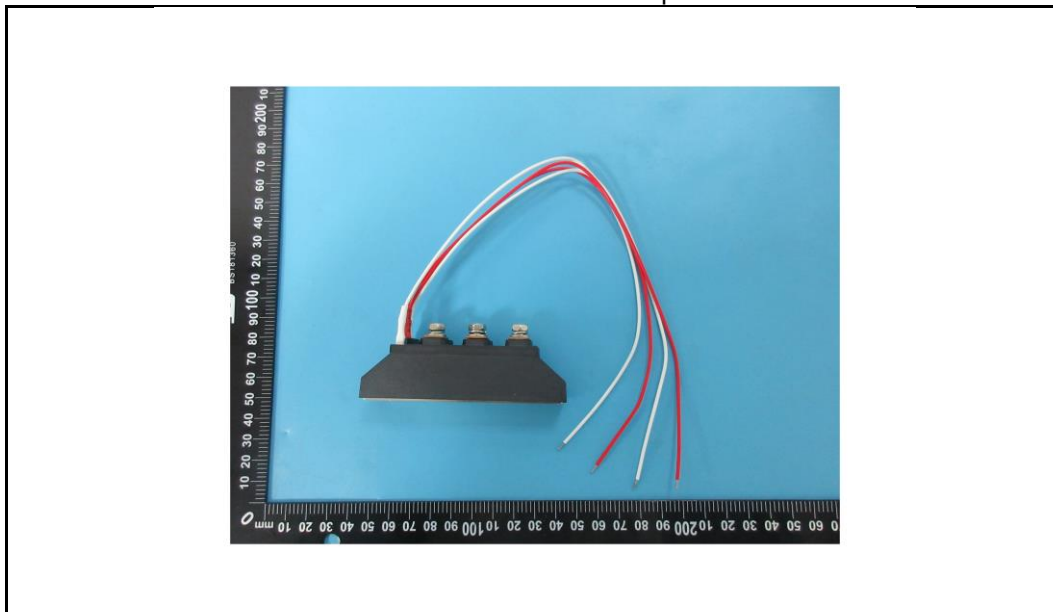
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Photo of Submitted Sample



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 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	CKG24-0013176-0001.C001	Black plastic part
SN2	A2	CKG24-0013176-0001.C002	Silvery metal part
SN3	A3	CKG24-0013176-0001.C003	Silvery metal part
SN4	A4	CKG24-0013176-0001.C004	Silvery metal part
SN5	A5	CKG24-0013176-0001.C005	Silvery metal nut
SN6	A6	CKG24-0013176-0001.C006	Black plastic part
SN7	A7	CKG24-0013176-0001.C007	White adhesive plastic sheet with black printing
SN8	A8	CKG24-0013176-0001.C008	Silvery metal part
SN9	A9	CKG24-0013176-0001.C009	Silvery metal screw
SN10	A10	CKG24-0013176-0001.C010	Silvery metal ring
SN11	A11	CKG24-0013176-0001.C011	Silvery metal ring
SN12	A12	CKG24-0013176-0001.C012	Red plastic (wire insulation)
SN13	A13	CKG24-0013176-0001.C013	White plastic (wire insulation)
SN14	A14	CKG24-0013176-0001.C014	White plastic tube
SN15	A15	CKG24-0013176-0001.C015	Red plastic tube
SN16	A16	CKG24-0013176-0001.C016	Silvery metal part
SN17	A17	CKG24-0013176-0001.C017	Silvery metal wire
SN18	A18	CKG24-0013176-0001.C018	Transparent material
SN19	A19	CKG24-0013176-0001.C019	Pink ceramic
SN20	A20	CKG24-0013176-0001.C020	Silvery material
SN21	A21	CKG24-0013176-0001.C021	Copper-colored metal part
SN22	A22	CKG24-0013176-0001.C022	Silvery metal wire
SN23	A23	CKG24-0013176-0001.C023	Translucent glue
SN24	A24	CKG24-0013176-0001.C024	Silvery metal solder
SN25	A25	CKG24-0013176-0001.C025	White paper sheet with multicolor printing
SN26	A26	CKG24-0013176-0001.C026	Translucent plastic thread



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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	<40000▲	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	ND	BL	BL	BL
PBB	BL	---	---	---	---	BL	BL	---
PBDE	BL	---	---	---	---	BL	BL	---
DEHP	BL	---	---	---	---	BL	ND	---
BBP	BL	---	---	---	---	BL	ND	---
DBP	BL	---	---	---	---	BL	ND	---
DIBP	BL	---	---	---	---	BL	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
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	---	---	---	BL	BL	BL	BL	---
PBDE	---	---	---	BL	BL	BL	BL	---
DEHP	---	---	---	ND	ND	ND	ND	---
BBP	---	---	---	ND	ND	ND	ND	---
DBP	---	---	---	ND	ND	ND	ND	---
DIBP	---	---	---	ND	ND	ND	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	50582▲	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	---	BL	BL	BL	---	---	BL	---
PBDE	---	BL	BL	BL	---	---	BL	---
DEHP	---	ND	BL	BL	---	---	ND	---
BBP	---	ND	BL	BL	---	---	ND	---
DBP	---	ND	BL	BL	---	---	ND	---
DIBP	---	ND	BL	BL	---	---	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26
Pb	BL	BL
Hg	BL	BL
Cd	BL	BL
Cr(VI)▼	BL	BL



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Test Item(s)	A25	A26
PBB	BL	BL
PBDE	BL	BL
DEHP	BL	BL
BBP	BL	BL
DBP	BL	BL
DIBP	BL	BL
Conclusion	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 62321-1:2013 Annex A as below table.

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

(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) ▲=According to the declaration from the client, Lead (Pb) in No.A2 is 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.A20 is 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\(EN\).pdf](https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20(EN).pdf)
- (7) Results of No.A25 in this report refer to verification report CKGEC24001318001 No.A31.
Results of No.A26 in this report refer to verification report CKGEC24001318001 No.A32.

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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Attachment:

Product name	Type	Current(A)		Remark
		MIN	MAX	
Power module (soldering module)	MTx	20	300	"x" can be instead of C、A、K、 blank or other alphabets。
	MFx	20	300	"x" can be instead of C、A、K or other alphabets。
	MDx	20	300	"x" can be instead of C、A、K、 blank or other alphabets。
	MDQ	5	300	
	MDS	5	300	
	MDST	5	300	
	MUR	5	800	
	MGx	10	2400	"x" can be instead of C、S、Q、 blank or other alphabets。
	MPx	10	200	"x" can be instead of S、Q、 or other alphabets。
	MRx	5	800	"x" can be instead of C、A、K、 blank or other alphabets。



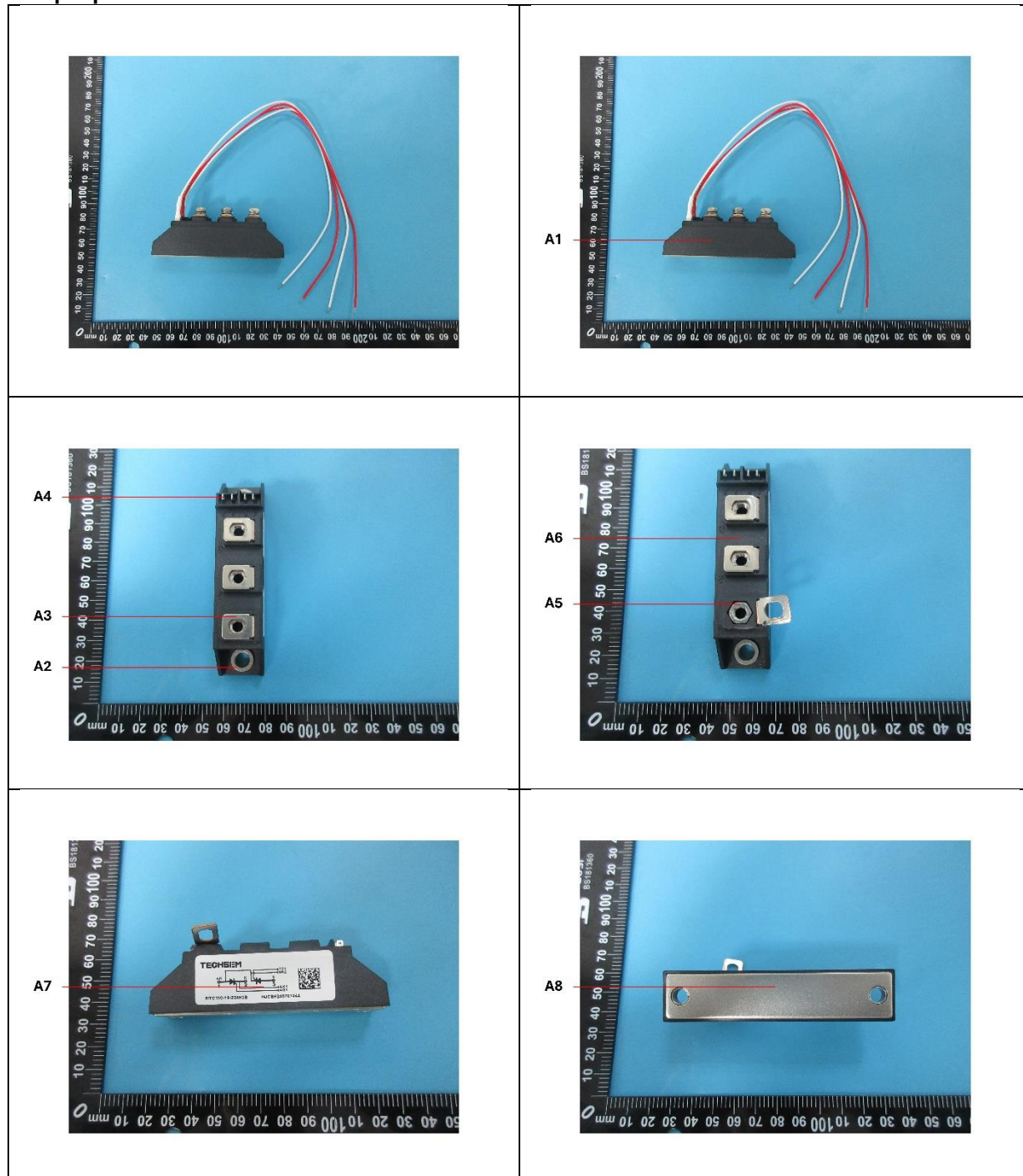
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Sample photos:

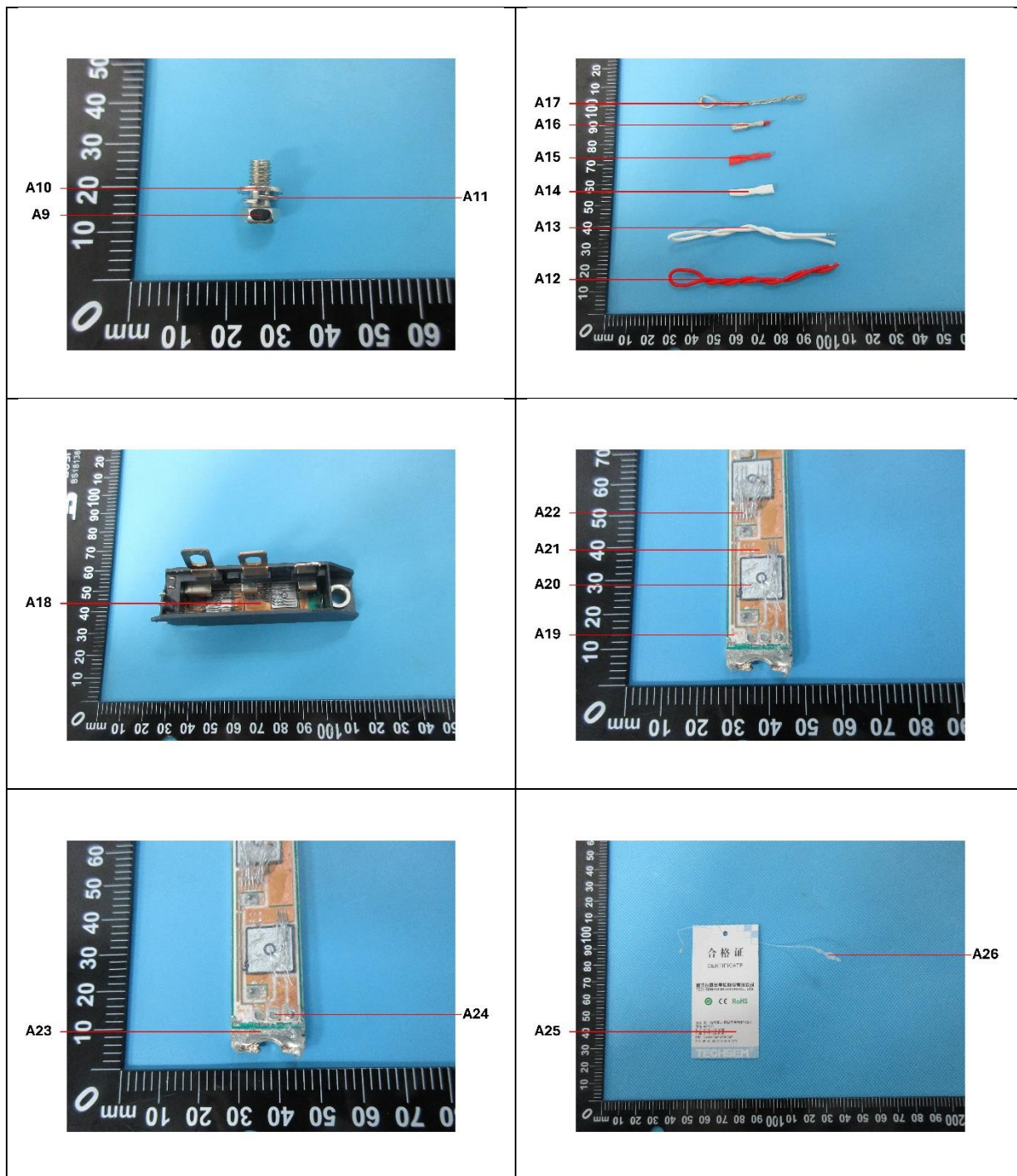


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