

## Verification Report No.: CKGEC24001318001 Date: Dec 24, 2024 Page 1 of 11

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

Sample Name: Power module (Compressive module)  
Tested Basic Model No.: MTC120A  
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 13, 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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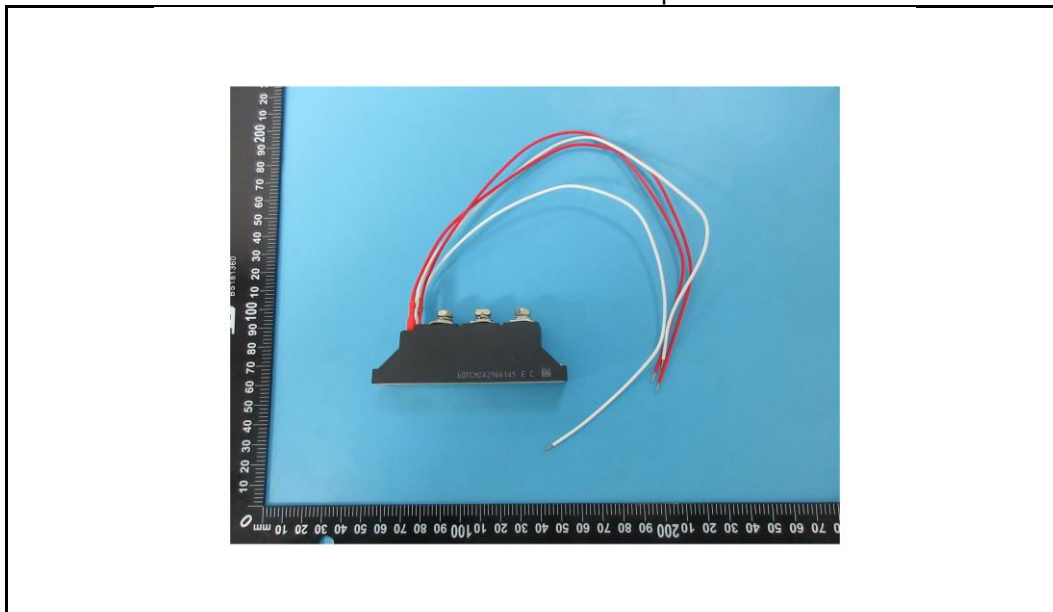
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Photo of Submitted Sample



### 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	CKG24-0013180-0001.C001	Black plastic part with grey printing
SN2	A2	CKG24-0013180-0001.C002	White plastic tube
SN3	A3	CKG24-0013180-0001.C003	Red plastic tube
SN4	A4	CKG24-0013180-0001.C004	Red plastic (wire insulation)
SN5	A5	CKG24-0013180-0001.C005	White plastic (wire insulation)
SN6	A6	CKG24-0013180-0001.C006	Silvery metal part
SN7	A7	CKG24-0013180-0001.C007	Silvery metal wire
SN8	A8	CKG24-0013180-0001.C008	Silvery metal screw
SN9	A9	CKG24-0013180-0001.C009	Silvery metal part
SN10	A10	CKG24-0013180-0001.C010	Silvery metal part
SN11	A11	CKG24-0013180-0001.C011	Silvery metal part
SN12	A12	CKG24-0013180-0001.C012	Silvery metal nut
SN13	A13	CKG24-0013180-0001.C013	Silvery metal part
SN14	A14	CKG24-0013180-0001.C014	Light blue metal screw
SN15	A15	CKG24-0013180-0001.C015	White material
SN16	A16	CKG24-0013180-0001.C016	Black block (envelopment)
SN17	A17	CKG24-0013180-0001.C017	Silvery metal solder
SN18	A18	CKG24-0013180-0001.C018	Black plastic tube
SN19	A19	CKG24-0013180-0001.C019	Light blue metal part
SN20	A20	CKG24-0013180-0001.C020	Blue rubber (wire insulation)
SN21	A21	CKG24-0013180-0001.C021	Black plastic tube
SN22	A22	CKG24-0013180-0001.C022	Translucent plastic (wire insulation)
SN23	A23	CKG24-0013180-0001.C023	Translucent rubber ring
SN24	A24	CKG24-0013180-0001.C024	Silvery metal part
SN25	A25	CKG24-0013180-0001.C025	Red material
SN26	A26	CKG24-0013180-0001.C026	Silver-gray metal ring
SN27	A27	CKG24-0013180-0001.C027	Silver-gray metal part
SN28	A28	CKG24-0013180-0001.C028	Silvery metal spring
SN29	A29	CKG24-0013180-0001.C029	Beige ceramic
SN30	A30	CKG24-0013180-0001.C030	Copper-colored metal part
SN31	A31	CKG24-0013180-0001.C031	White paper sheet with multicolor printing
SN32	A32	CKG24-0013180-0001.C032	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	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	BL	BL	BL	BL	---	---	---
PBDE	ND	BL	BL	BL	BL	---	---	---
DEHP	ND	ND	ND	ND	ND	---	---	---
BBP	ND	ND	ND	ND	ND	---	---	---
DBP	ND	ND	380	ND	ND	---	---	---
DIBP	ND	ND	ND	ND	ND	---	---	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

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

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

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
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



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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	ND	---	---	---	BL	---	BL	BL
PBDE	ND	---	---	---	BL	---	BL	BL
DEHP	ND	---	---	---	BL	---	BL	BL
BBP	ND	---	---	---	BL	---	BL	BL
DBP	ND	---	---	---	BL	---	BL	BL
DIBP	ND	---	---	---	BL	---	BL	BL
Conclusion	PASS	PASS	PASS	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 62321-1:2013 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.A10 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight.

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)

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Attachment:

Product name	Type	Current(A)		Remark
		MIN	MAX	
Power module (Compressive module)	MTx	20	10000	"x" can be instead of C、A、K、G、Y、 blank or other alphabets。
	MFx	20	10000	"x"can be instead of C、A、K、G、Y or other alphabets。
	MDx	20	10000	"x" can be instead of C、A、K、G、Y、 blank or other alphabets。
	MKx	20	10000	"x" can be instead of C、A、K、 blank or other alphabets。
	MHx	20	10000	"x"can be instead of C、A、K or other alphabets。
	MZx	20	10000	"x" can be instead of C、A、K、 blank or other alphabets。

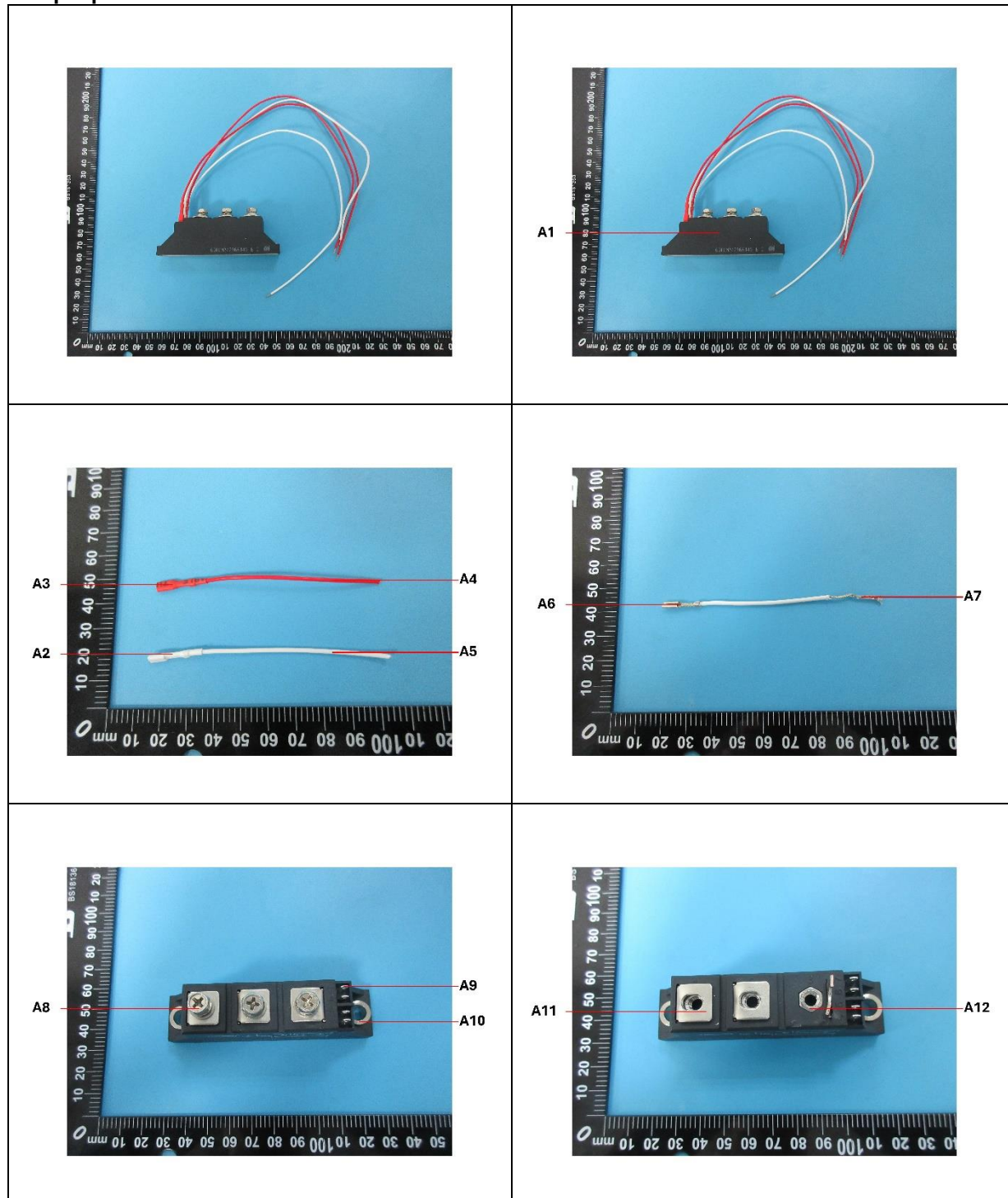


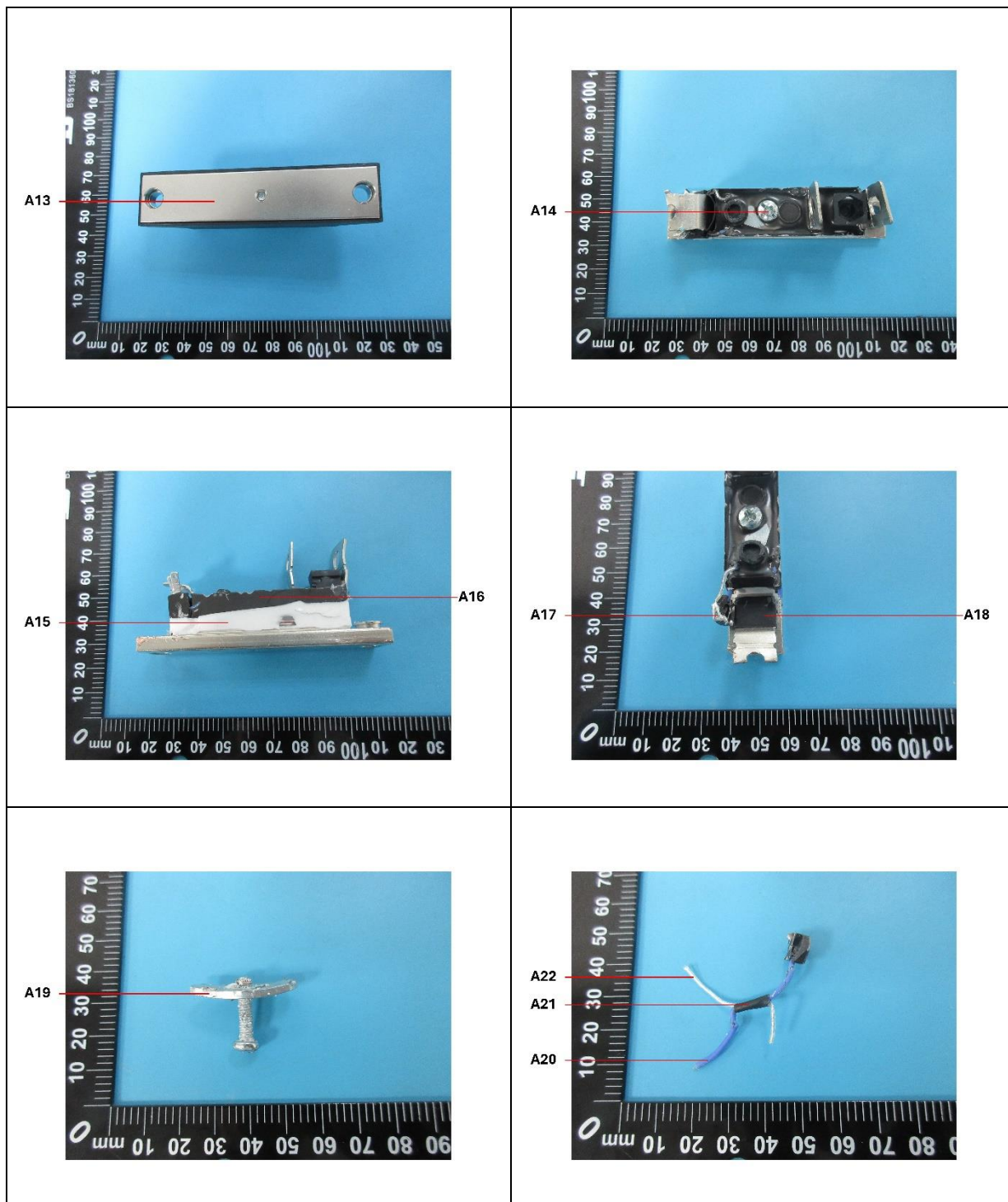
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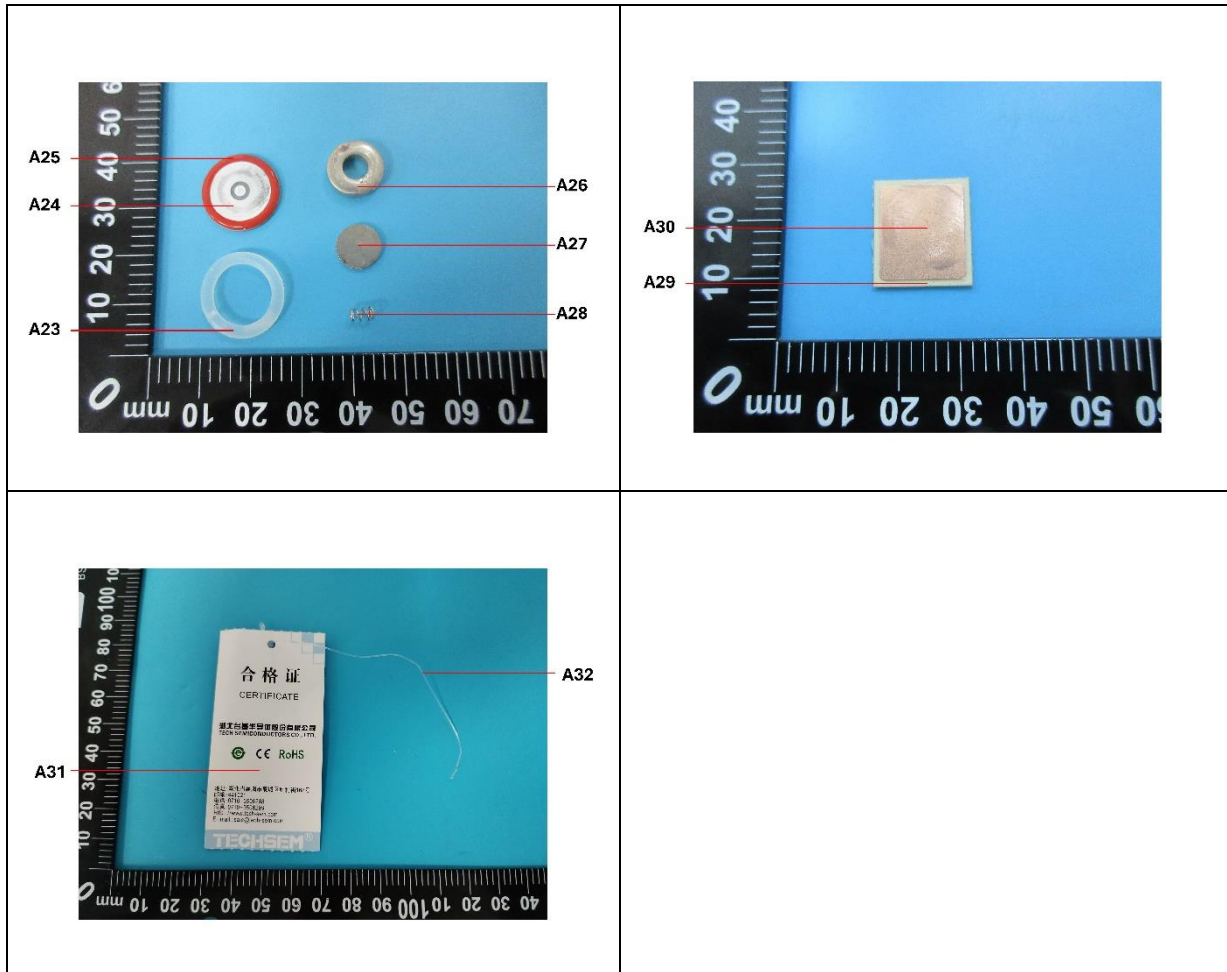
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### Sample photos:







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