

Test Report

No.: TAOEC25000086005

Date: Jan 21, 2025

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Client Name: RIZHAO XURI ELECTRONICS CO.,LTD

Client Address: DALIAN ROAD 388 OF RIZHAO DEVELOPMENT ZONE,SHANDONG,CHINA

Sample Name: TO HEADER

Client Ref. Information: SEE ATTACHMENT

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

SGS Job No.: QDP24-006253

Sample Receiving Date: Jan 03, 2025

Testing Period: Jan 03, 2025 ~ Jan 09, 2025

Test Requested: Select test(s) as requested by the client.

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

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

Test Requirement	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
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium	Pass
Halogen	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Sapphire Wang
Approved Signatory

scan to see the report



BD712D66



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A8	TAO25-0000860-0001.C008	black solid
SN2	A9	TAO25-0000860-0001.C009	brown solid
SN3	A10	TAO25-0000860-0001.C010	silvery gray metal
SN4	A11	TAO25-0000860-0001.C011	silvery gray metal
SN5	A12	TAO25-0000860-0001.C012	silvery gray metal
SN6	A13	TAO25-0000860-0001.C013	silvery gray metal
SN7	A14	TAO25-0000860-0001.C014	silvery gray metal
SN8	A15	TAO25-0000860-0001.C015	silvery gray metal
SN9	A16	TAO25-0000860-0001.C016	silvery gray metal
SN10	A17	TAO25-0000860-0001.C017	silvery gray metal
SN11	A18	TAO25-0000860-0001.C018	silvery gray metal
SN12	A19	TAO25-0000860-0001.C019	silvery gray metal
SN13	A20	TAO25-0000860-0001.C020	golden metal pin
SN14	A21	TAO25-0000860-0001.C021	silvery gray metal pin
SN15	A22	TAO25-0000860-0001.C022	Reddish orange metal

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

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)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A8	A9
Lead (Pb)	1000	mg/kg	2	9	4
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A8	A9
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm ²	0.10	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm ²	0.10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm ²	0.10	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Lead (Pb)	1000	mg/kg	2	ND	ND	13
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm ²	0.10	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A22
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm ²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ =
 - 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 Cr(VI) results represent status of the sample at the time of testing.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A8	A9
Fluorine(F)	mg/kg	20	ND	ND
Chlorine(Cl)	mg/kg	50	ND	ND
Bromine(Br)	mg/kg	50	ND	ND
Iodine(I)	mg/kg	50	ND	ND

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.

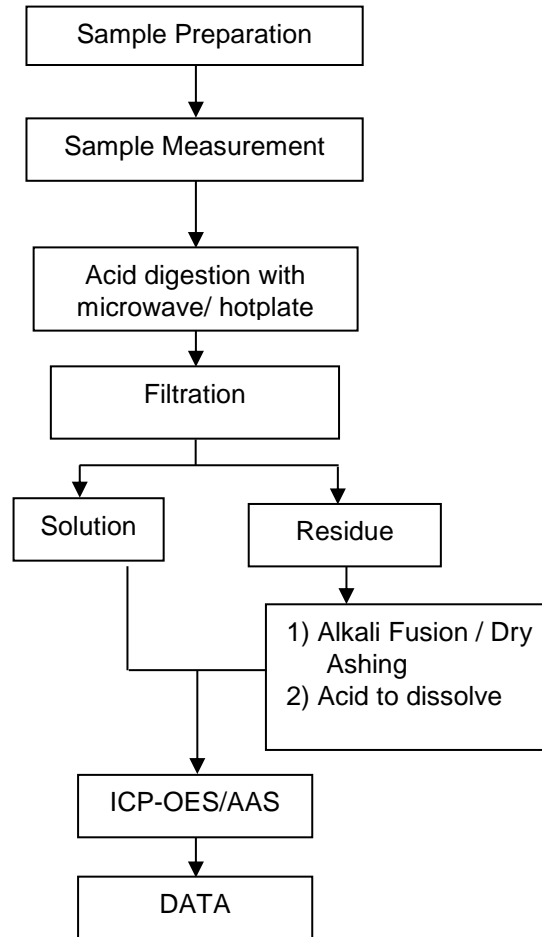


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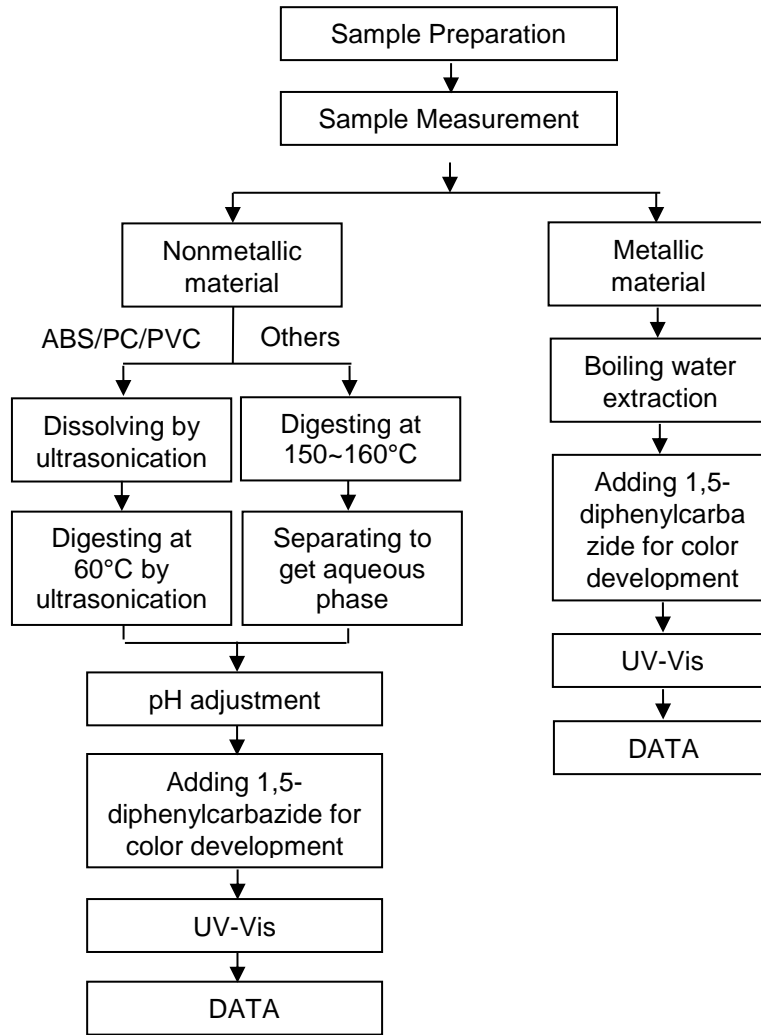
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Elements Testing Flow Chart

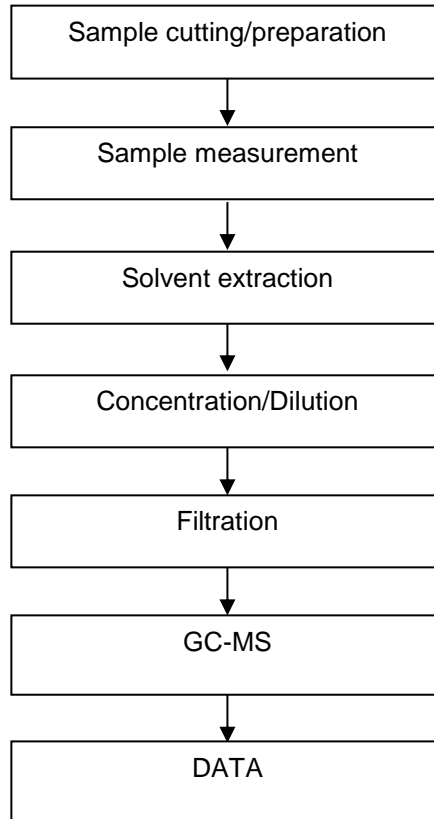
These samples were dissolved totally by pre-conditioning method according to below flow chart.



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB/PBDE/Phthalates Testing Flow Chart



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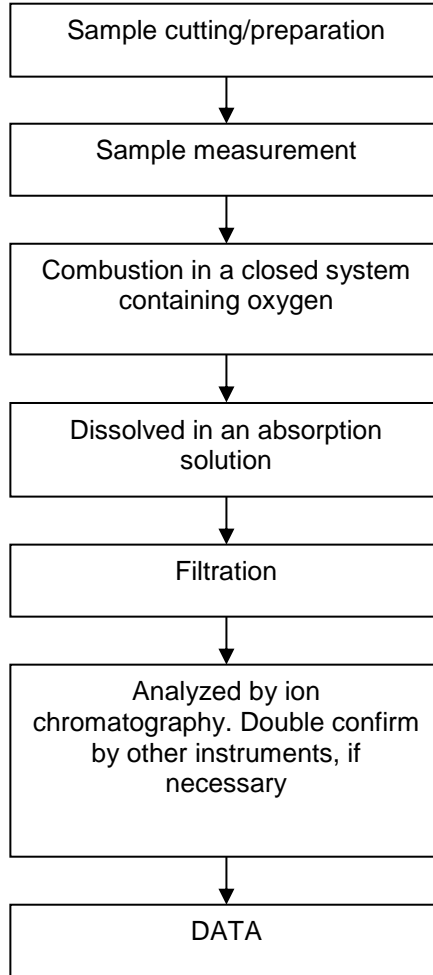
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Halogen Testing Flow Chart



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Attachment:

PMGI0190
PMGI0126
PMGI0111
PMGI0108
PMGI0198
PMGI0209
PMGI0201
PMGI0202
PMGI0147
NC-23-Au
NC-21-Au
NC-4(Ni)-S
NC-4(Au)-R
NC-22
NC-23
NC-24(Ni)-R
NC-21-Ni
NC-4(AU)-20.0-R
NC-25(Au)-R
TO-5-0.7 outer lead 5.5
TO-5 2+1 inner lead 1.85
TO-5 3+1 inner lead 2.0
TO-5-5.5
TO-5-8.5
TO-5-13.5
TO-5-20.0
TO5-3P3L-2R
TO5-(2+1)Au
TO-5-25.0
TO-5 (5+1)
TO-5-6P6L
TO-5 3P4L-V
TO-5 3P3L
TO-5 7P8L-V
TO-5 4P6 hole
TO-5 -5PIN-C
TO-5 -5PIN-B
TO-5 6PIN
TO5-6P6L-20.0
TO5-4P4L-6.0
TO5-3P3L-3.8



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TO5-1.55/13.25 (countersink gild)
TO5-6P6L-6.0 (gild)
TO5-6P6L-6.0 (B-gild)
TO5-4P4L-1.5T-3.6 beat flat (Sn C)
TO5-4P4L-13.5 (gild)
TO5-5P6 hole
TO5-4P5L-1.0H) with tail (1.25T)
TO5-12Pin nail
TO5-5P7 nail with tube L16.2
TO5-6P6L Fe-H3.0
TO18 (2+1)
TO18-0001
TO18-0100
TO18-1.1T
TO18 (3+1) Au
TO18 (3+1)window opening
TO18 (1+1) -nail
TO18 GSB (1+1) 2.0T
TO18 (1+1) 38.5
TO18 (2+1) Au
TO18 2.5T 2+1
TO-18GMK3
TO-18GMK
TO-18GSB
TO18-(1+1) 45°
TO18 3+1 2.5T 1110
TO18 1+1 1.1T
TO18 1+1 iron
TO18 2+1 semicircle eyelet
TO18 3P4L-V
TO18-2P2L-1.5T nail nickel plating
TO39 (2+1)
TO39 (1+1) Au
TO39 (1+1) stamp mark
TO39 M10030
TO39 (5+1)
TO39 (5+1)nail
TO39 (2+1) 2.5T
TO39 (2+1) 2.5T
TO39 (3+1) PCD 5.84
TO39 (3+1) -10.14
TO39 4P6hole



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TO39 4P5hole
TO39-8Pin nail
TO39(3+1)PC5.84(φ10.4)无筋
TO39(3+1)PC5.84(φ10.4)
TO46-5.8 outer diameter 5.8
TO46-(1+1)-45°
TO46(1+1)-26.1
TO46 (4+1)
TO46 (2+1)
TO46 (2+1)Cross mark
TO46(2+1)-2° slope
TO46-2P3L-0.65-L18.5
TO46-2P3L-1.1H
TO46 5PIN(B)
TO46-2P3L without tail-6.5 (with mark)
TO46-4P5L-0.75 chute
TO46-4P5L without tail
TO46 (4+1)-25G-A
TO46 (4+1) 0.77T
TO46 (5+1) -0.7-0.77T
TO46 (5 + 1) slope
TO46 (5+1)with tail
TO46 (5+2)
TO46 3+1SPCC
TO46 3P4L
TO46-31.75
TO46 (4+1) with tail
TO46-13.5-conjoined
TO46C
TO46CK
TO46S
TO46(4+1) L13.5
TO46 5+1A without nail (sinker)
TO46-4P5L-0.8T (countersink)
TO46-5P6L-0.4
TO560201
TO560204
TO5602-14.0
TO56-4PIN 1.8K
TO56-3P4L-1.45K0.2H
TO56-7P-RA
TO56-3P4L-L6.5



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TO56-4P5L-2.54 beat flat t45° precision cutting
TO56-4+1-A2(1.6)
TO560101
TO56-2P3L-GZ two stations(1.4H)
TO56-2P3L-3.7 one station
TO56-2P3L- one station 0.1
TO56-2P3L-L6.5(AP)
TO56-4P5L-2.54 beat flat45°
TO56-3+1-G
TO56-4P5L-2.54 precision cutting 45°L13
TO-56-0301
TO56 0303
T0-56-0502
TO-56-0603
TO-56 4+1
TO56-3PIN
TO-56 7pin
TO-56 -7PIN Double counterbore
TO56-7P-RA
TO56-7P-R
TO56-7P-RC (no SUB)
TO-56 8P
TO56-8P single column empty
TO56-7P8L-SUB
TO56-6P8L Au0.3
TO56-7P-B(Au0.3)
TO56-7P-R
TO56-7P-R (SUB)
TO56-7P-B SUB
TO56-6P7L (SUB)
TO56-6P8L Au0.3(2.4 single column)
TO56-6P7L-SUB alloy
TO56-6P7L(SUB) twin column
TO56-7P-B columnless
TO56-7PHX-A
TO56-7PHX-A-SUB
TO56-6P7L-3.5
TO56-2P3L-1.9K
TO60-7P9L copper column
TO56-3P4L-0.3(flat plate)
TO56-GZ-no ground



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TO56-2P3L-GZ two stations (L6.5-H1.3)
TO56-7P single column-DF
TO56-5+1 single column
TO56-7P double counterbore
TO56-2P3L-2.7K beat flat
TO56-1P2L-Asymmetrical tube tongue
TO56-3P5L
TO56-3+2+1
TO60-6P6L-0.35
TO60 7P
TO60 8P
TO60-8P in connecting pore kovarB
TO60-6P7L-2.0 single column(Sub)
TO65 6P
TO72
TO33
TO33 (1+1)
TO33 (4+1)
TO38
KLD-3.0
KLD-2.0
KLDφ4.2
KLD 2.60
KLD 3.55X
TO-8 12P13L-V
TO-8 12P12L Integral thread
TO-8 8P
TO8-2.0T-7P absolute pressure
TO8-2.0T-7P manometer pressure
TO8-01-12P screw thread-H1.27-3.78
TO8-02-12P screw thread-H2.54
TO801-12P screw thread-H1.27-3.18
TO802-12P screw thread-H0.85
TO802-12P screw thread-H2.54
TO8-13P12L- screw thread
TO8-φ10-H6.0 shell assembly
TO801-14P screw thread-H2.54
TO802-12P(Fe)-H2.54
TO802-12P gild-H0.5
TO802-12P-H6.5-5.5screw thread
TO802-12P gild-H2.5
TO9-2pin-2.1K copper column



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TO9-2P3L-2.6H beat flat
TO9-2P2L-2.2H
TO13-6P6L-3.56T
TO13-6P6L-2.54T
TO37-6P6L-L24.5
TO66-6P6L-beat flat
TO66-9pin
ST6.125.013
ST6.125.029
To one terminal
2Pin Holder
0.38*3.5*0.62 nail lead
3155 ceramic
2160 ceramic
4P4L-III
14pin ceramic hybrid2
18pin ceramic hybrid with lens
14pin ceramic Single and double open hybrid
One side 14pin ceramic hybrid
TE01598
TE05328
C19095
7374



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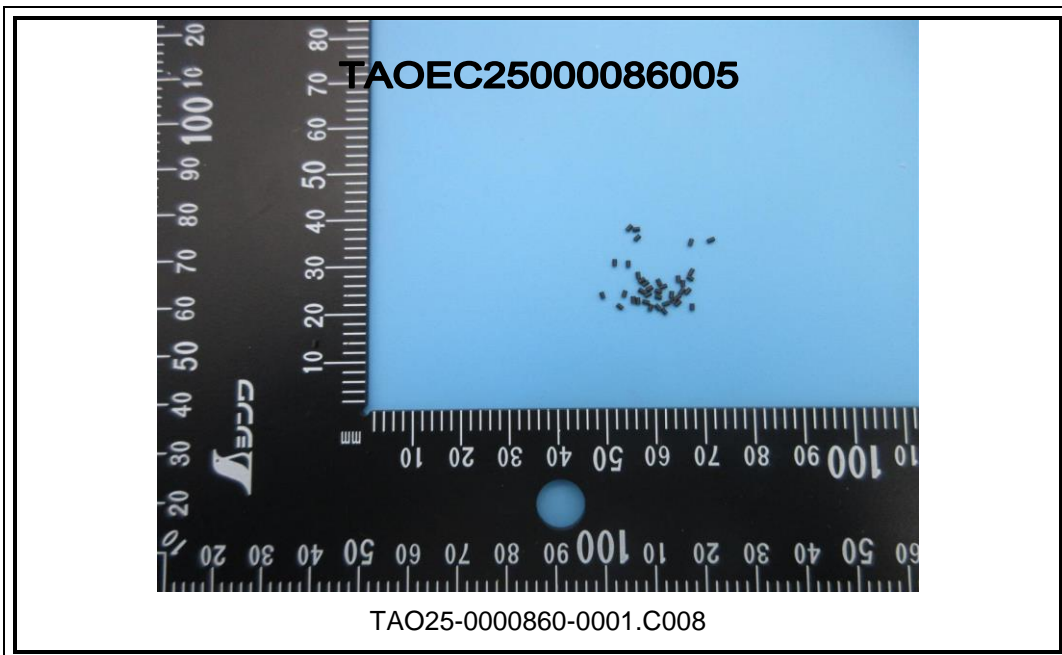
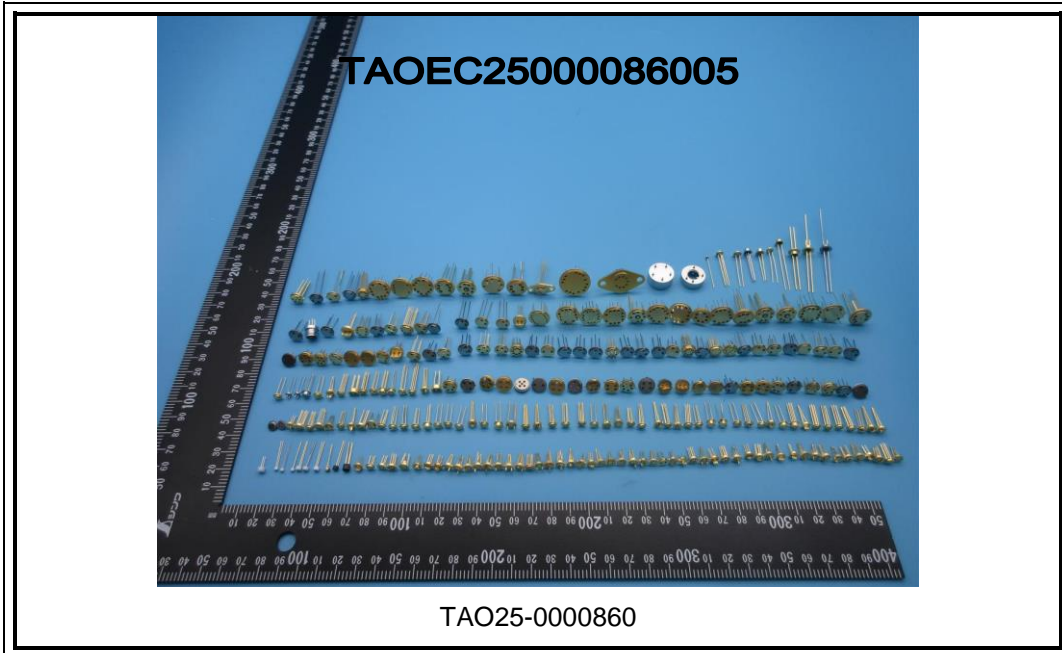
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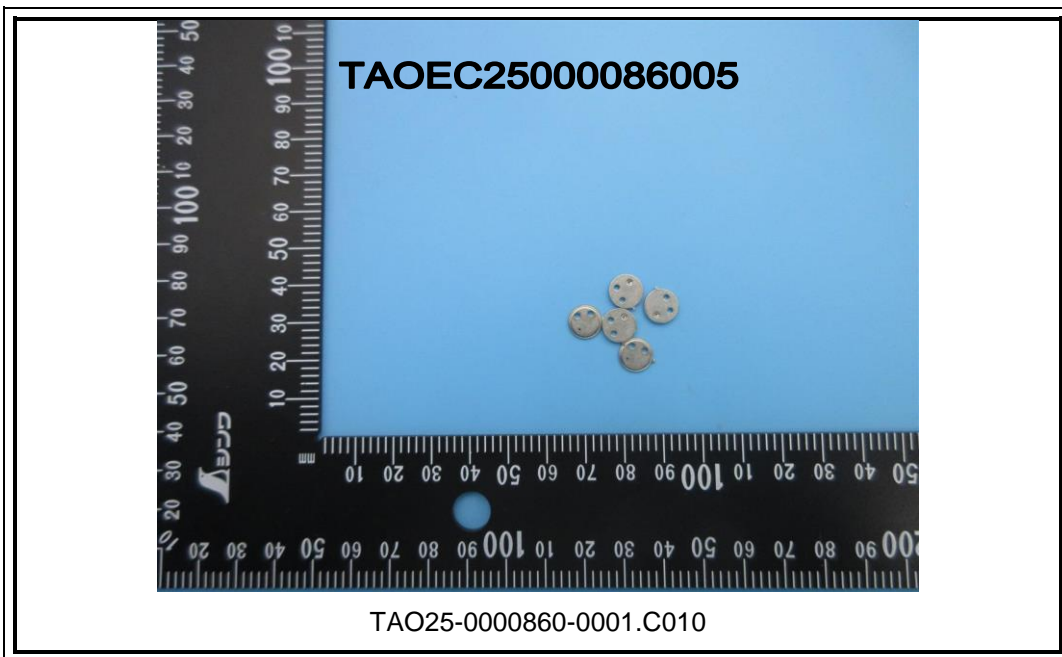
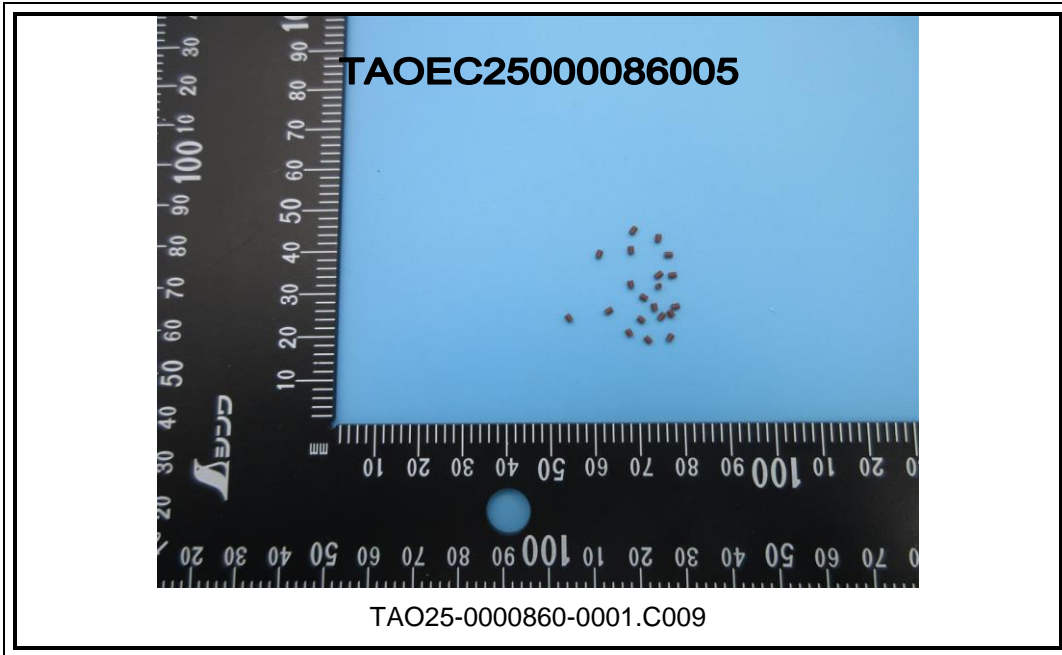
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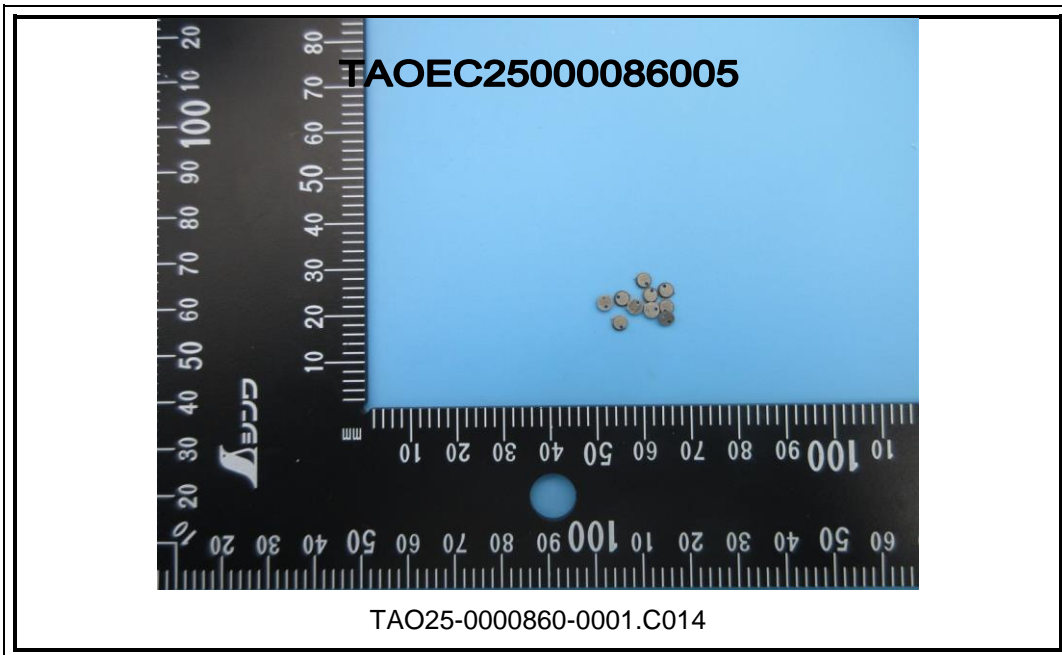
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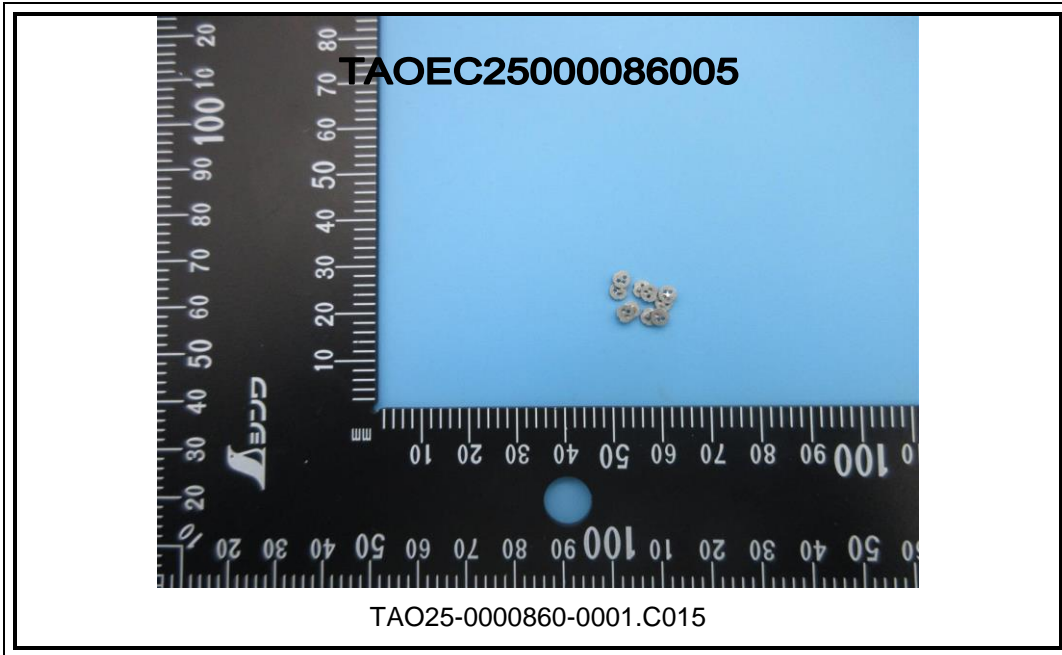
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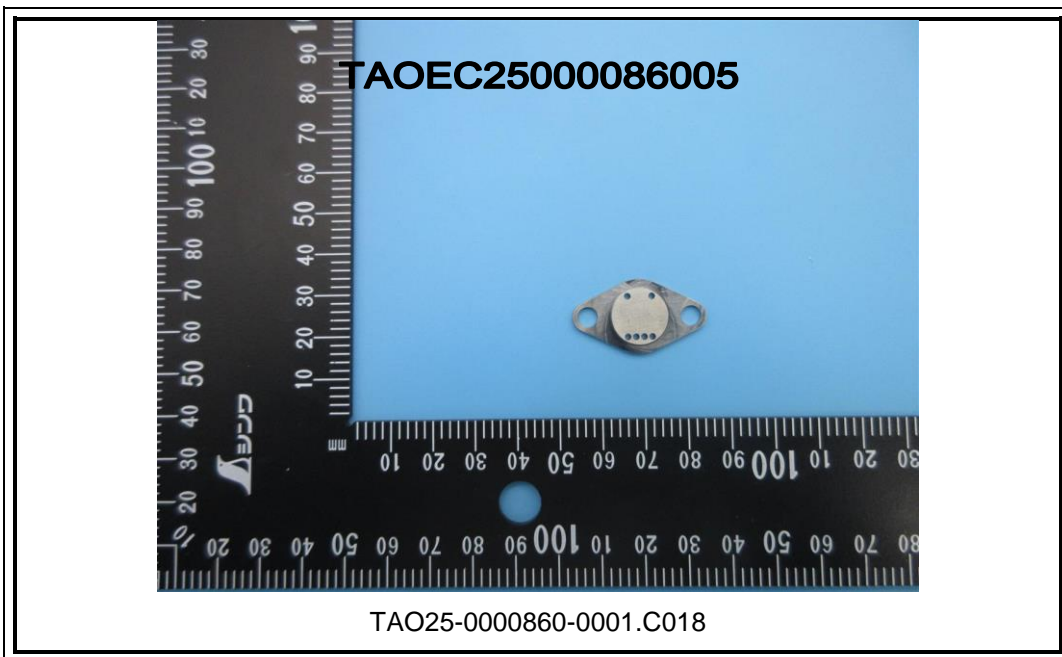
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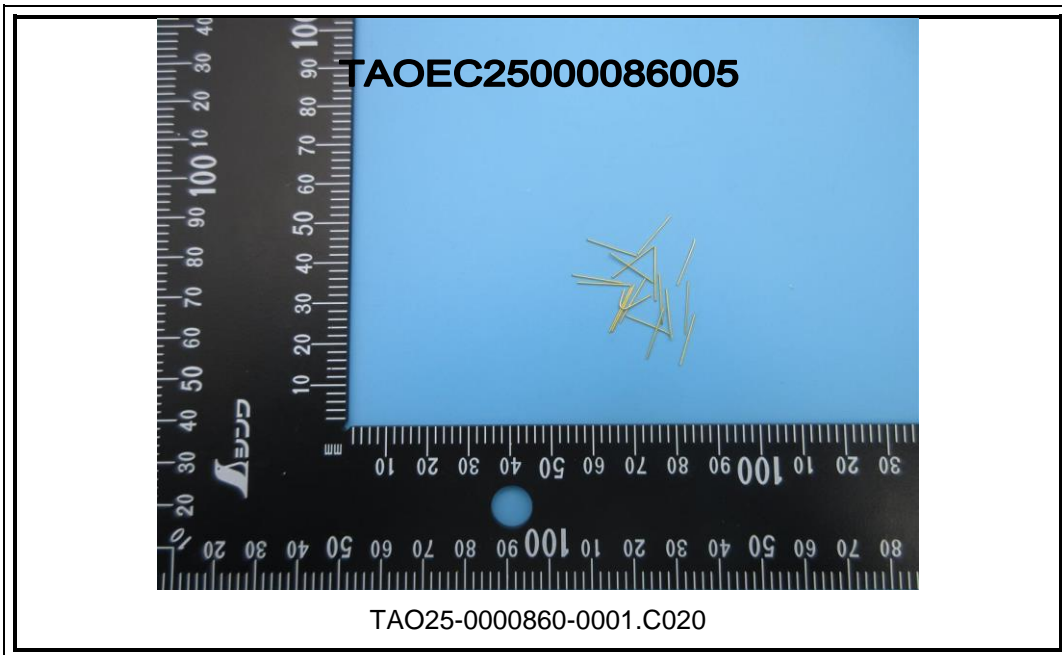
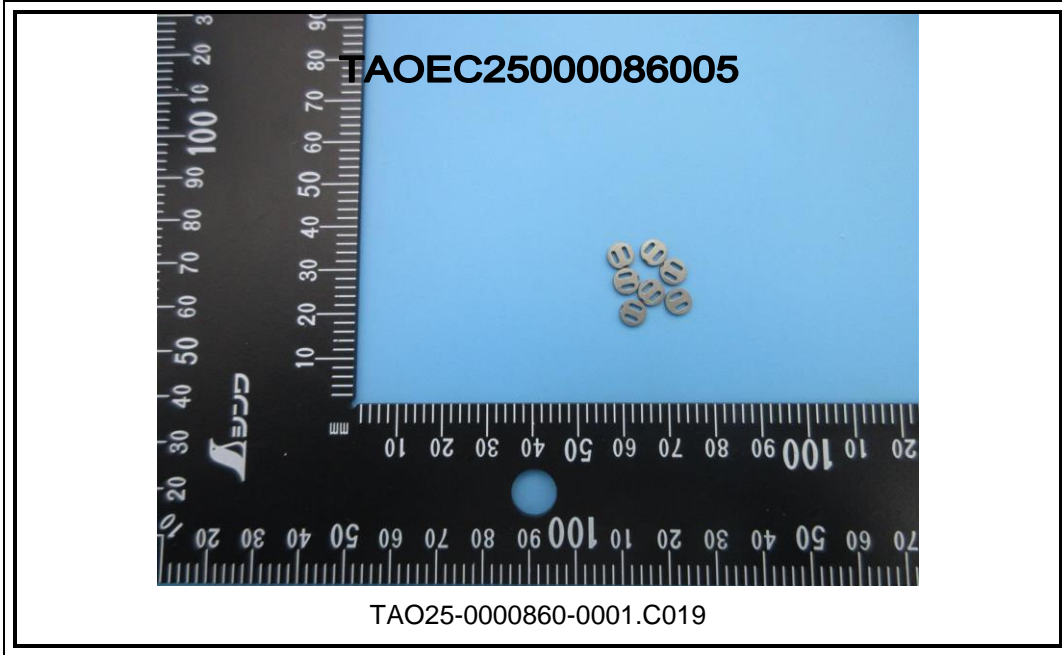
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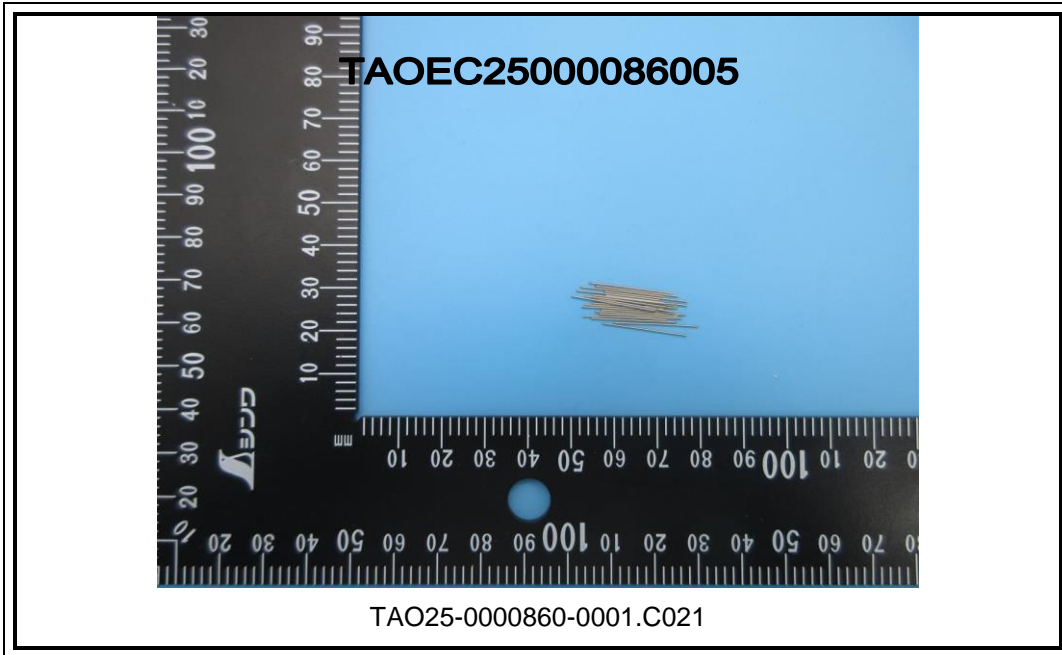
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