

Test Report

No.: TAOEC24000242905

Date: Feb 03, 2024

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Client Name: RIZHAO XURI ELECTRONICS CO.,LTD.

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

Sample Name: TO BASE

Client Ref. Information: SEE ATTACHMENT

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

SGS Job No.: QDP24-000189

Sample Receiving Date: Jan 15, 2024

Testing Period: Jan 15, 2024 ~ Jan 22, 2024

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.

Alice Sun
Approved Signatory



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A8	TAO24-0002429-0001.C008	black solid
SN2	A9	TAO24-0002429-0001.C009	brown solid
SN3	A10	TAO24-0002429-0001.C010	silvery gray metal
SN4	A11	TAO24-0002429-0001.C011	silvery gray metal
SN5	A12	TAO24-0002429-0001.C012	silvery gray metal
SN6	A13	TAO24-0002429-0001.C013	silvery gray metal
SN7	A14	TAO24-0002429-0001.C014	silvery gray metal
SN8	A15	TAO24-0002429-0001.C015	silvery gray metal
SN9	A16	TAO24-0002429-0001.C016	silvery gray metal
SN10	A17	TAO24-0002429-0001.C017	silvery gray metal
SN11	A18	TAO24-0002429-0001.C018	silvery gray metal
SN12	A19	TAO24-0002429-0001.C019	silvery gray metal
SN13	A20	TAO24-0002429-0001.C020	golden metal pin
SN14	A21	TAO24-0002429-0001.C021	silvery gray metal pin
SN15	A22	TAO24-0002429-0001.C022	Red-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, IEC 62321-6:2015 and IEC 62321-8:2017, 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	8	ND
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
Mono brominated biphenyl (MonoBB)	-	mg/kg	5	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A8	A9
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND
Butyl benzyl 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	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	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.



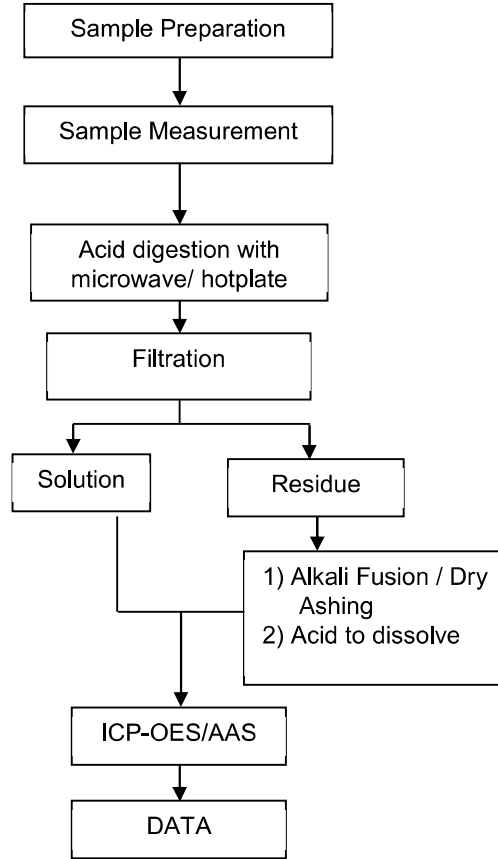
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Elements Testing Flow Chart

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



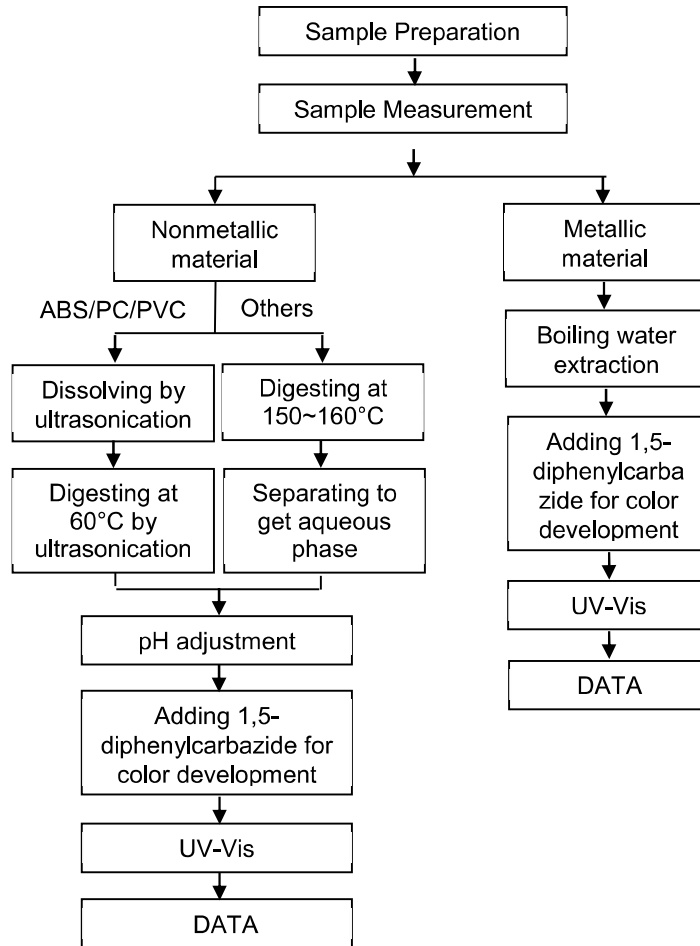
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



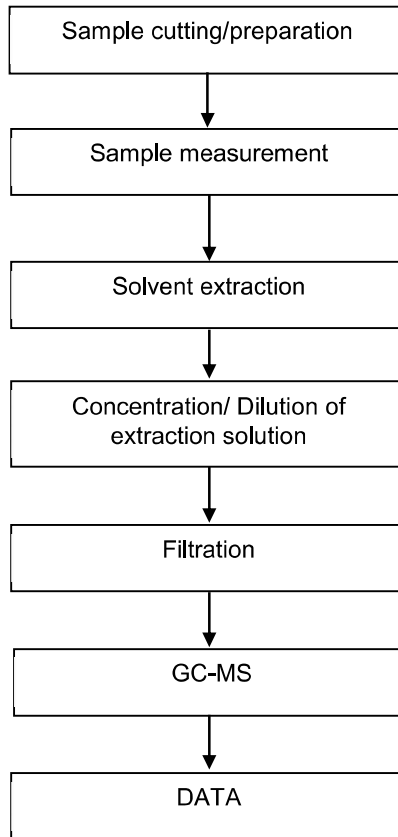
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PBB/PBDE Testing Flow Chart



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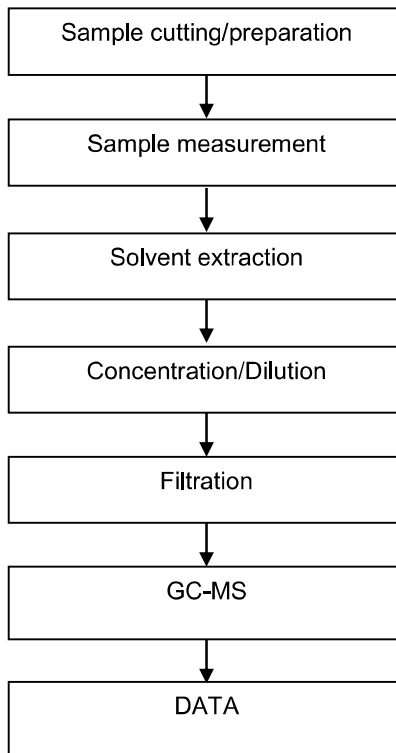
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Phthalates Testing Flow Chart



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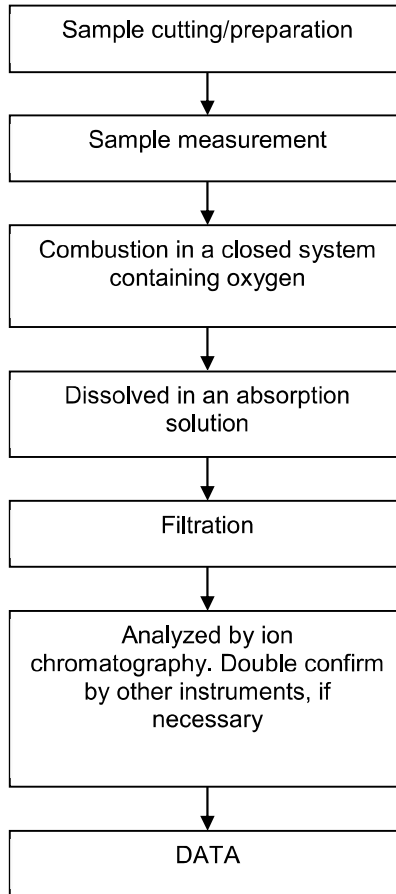
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Halogen Testing Flow Chart



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Attachment:

PMGI0190	TO46 (4+1) with tail
PMGI0126	TO46-13.5-conjoined
PMGI0111	TO46C
PMGI0108	TO46CK
PMGI0198	TO46S
PMGI0209	TO46(4+1) L13.5
PMGI0201	TP46-5+1A
PMGI0202	TO46-5+1-0.57L
PMGI0147	HEADER-TO46 3PIN(CR700567G)
NC-23-Au	HEADER-TO46 5-PIN F5.31 PIN L20
NC-21-Au	TO46-5+1B
NC-4(Ni)-S	TO46-2P3L- incline 8° Base
NC-4(Au)-R	TO46-4P5L-0.75 Chute Bsaе
NC-22	TO46 (3+1) Crosshairs
NC-23	TO46-5+1 B
NC-24(Ni)-R	TO46 -5+1-0.57L
NC-21-Ni	TO46 3+1 without tail
NC-4(AU)-20.0-R	TO46 3P4L Iron with Hole
NC-25(Au)-R	TO46 (4+1) Iron Large hole
NC-26	TO46-4+1H1.2-L13.5
TO5 stem	TO46-2P3L with hole L13.5
TO-5-0.7 outer lead 5.5	TO46-2P3L without tail L6.5
TO-5 2+1 inner lead 1.85	TO46-3+1 Tail
TO-5 3+1 inner lead 2.0	TO56stem
TO-5-5.5	TO560201
TO-5-8.5	TO560204
TO-5-13.5	TO-56-0301
TO-5-20.0	TO56 0303
TO5-3P3L-2R	T0-56-0502
TO5-(2+1)Au	TO-56-0603
TO-5-25.0	TO-56 4+1
TO-5 (5+1)	TO56-3PIN
TO-5-6P6L	TO-56 7pin
TO-5 3P4L-V	TO-56 -7PIN Double counterbore
TO-5 3P3L	TO56-7P-RA
TO-5 7P8L-V	TO56-7P-R
TO-5 7P8L-FC(0.1)	TO-56 8P
TO-5 4P6 hole	TO56-3+2+1
TO-5 -5PIN-C	TO56-2P3L-L6.5(AP)



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TO-5 -5PIN-B	TO56(3+1)-1.0H
TO-5 -5PIN-A	TO56(3+1)-1.6K
TO-5 6PIN	TO56(3+1)-1.2H1.6K 基座
TO5 (2+1) -0.7H7.0L	TO56-3+1-1.8K
TO-5(2+1)-1.3	TO56-4+1-C2
TO5-3+1-2.0H	TO56-6+1-T
TO5-4P4L-1.12 Base	TO56-3+1-0.25
TO5-5P6hole-L2.11	TO56-2P3L-2.7K 打扁 Base
TO5-2P3L base (L13.5)	TO56-6P7L-SUB
TO-5-4PIN	TO56-6P7L Base (SUB) (1.0T)
TO-5-8PIN Nailhead L20.0	TO56-7PHX-A-SUB
TO-5 -8PIN Nailhead L13.3	TO56-7PHX-A
TO-5 5p6 Hole	TO56-6P7L-3.5 BASE
TO-5 5p7 hole	TO-56 (3+1)-1.6K
TO18 stem	TO-56 6p2N
TO18 (2+1)	TO56-7P-B
TO18-0001	TO56-8P-SUB
TO18-0100	TO56-7P8L-SUB
TO18-1.1T	TO56-4P5L-2.54 Flattened 45° Fine Cutting
TO18 (3+1) Au	TO56-4P5L-2.54 flattened 45°
TO18 (3+1)window opening	TO60stem
TO18 (1+1) -nail	TO60 7P
TO18 GSB (1+1) 2.0T	TO60 8P
TO18 (1+1) 38.5	TO60-9P Nailhead Base
TO18 (2+1) Au	TO60-9P Nailhead Kovar Base
TO18 2.5T 2+1	TO60-8Pin perforated Kova base
TO-18GMK3	TO60 6P6L
TO-18GMK	TO60 7P (SUB)
TO-18GSB	TO65 6P
TO18-(1+1) 45°	TO72
TO18 3+1 2.5T 1110	TO33stem
TO18 1+1 1.1T	TO33
TO18 1+1 iron	TO33 (1+1)
TO18 2+1 semicircle eyelet	TO33 (4+1)
TO18 3P4L-V	TO38
TO18-1P2L-0.38H stamp	TO38-3P4L-1.0K0.85H
TO18-2P3L-0.38H stamp	TO38-3P4L-1.45K1.2H
TO18-T-K	TO38 3P4L 1.5K1.2H
TO18-1+1 L11.2	TO37-4PIN
TO18 (1+1) 0.38H Iron mark	KLD-3.0



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Test Report

No.: TAOEC24000242905

Date: Feb 03, 2024

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TO18 1+1 no tail long and short legs	KLD-2.0
TO39stem	KLD ϕ 4.2
TO39 (2+1)	KLD 2.60
TO39 (1+1) Au	KLD 3.55X
TO39 (1+1) stamp mark	TO8 stem
TO39 M10030	TO-8 12P13L-V
TO39 (5+1)	TO-8 12P12L Integral thread
TO39 (5+1)nail	TO-8 8P
TO39 (2+1) 2.5T	TO8-7P7L-7.1
TO39 (2+1) 2.5T	TO8-5P5L gold-plated base
TO39 (3+1) PCD 5.84	TO8-6P6L-3.2H Base
TO39 (3+1) -10.14	TO8-2.0T-7P gauge base
TO39 4P6hole	TO8-2.0T-7P absolute pressure base
TO39 4P5hole	TO8-6P6L-0.38 flange base
TO39-3+1-B	TO8-12P12L
TO39-2P2L-L3.5	TO8-5PIN
TO39-2+1-0.38 flange base	TO8-014
TO39-8PIN-L17.0	TO8-280C
TO46stem	TO8-12PIN Threaded Base
TO46-5.8 outer dimeter 5.8	TO-8 012 Pressure Sensor
TO46-(1+1)-45°	TO-8 004
TO46 (4+1)	TO-8 013 Pressure Sensor
TO46 (2+1)	TO9 stem
TO46 (2+1)Cross mark	TO9-2P3LBASE-2.6H
TO46 (4+1)-25G-A	TO9-2P3LBASE-3.0H
TO46 (4+1) 0.77T	ST6.125.012
TO46 (5+1) -0.7-0.77T	ST6.125.013
TO46 (5 + 1) slope	ST6.125.029
TO46 (5+1)with tail	To one terminal
TO46 (5+2)	2Pin Holder
TO46 3+1SPCC	Rubidium bead holder
TO46 3P4L	P1B
TO46-31.75	ϕ 3-1P2L Base



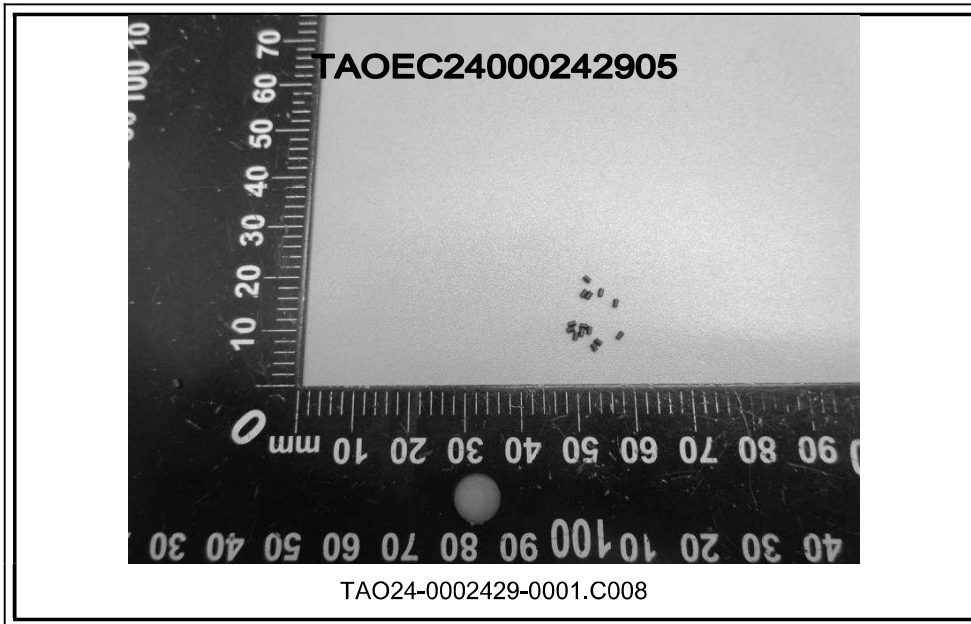
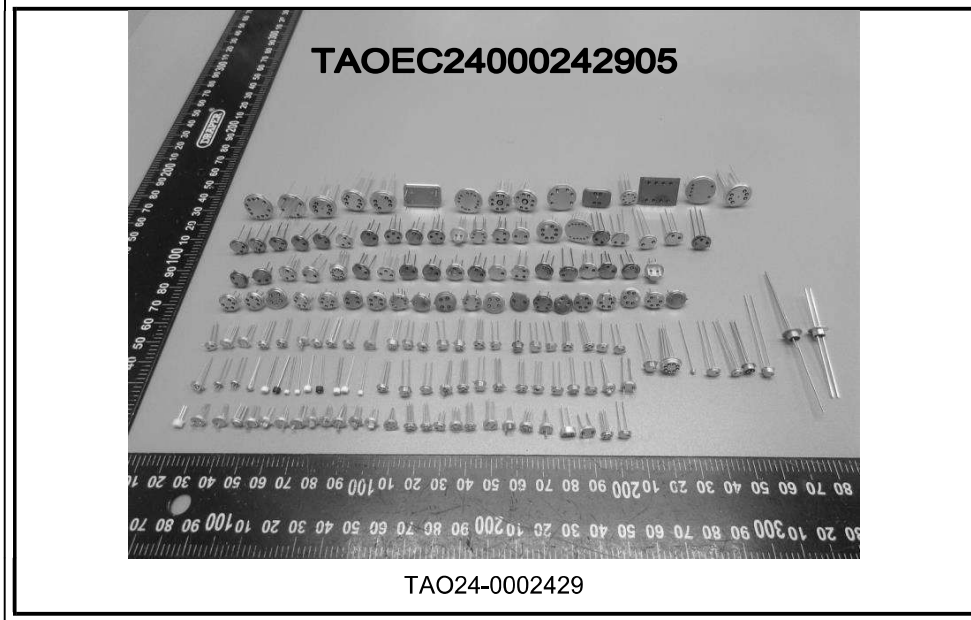
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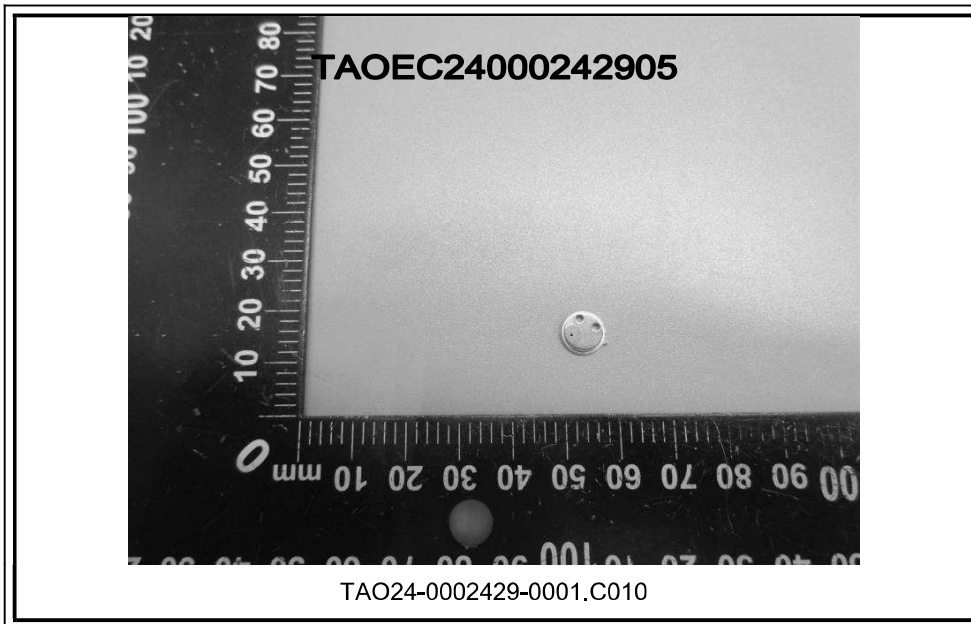
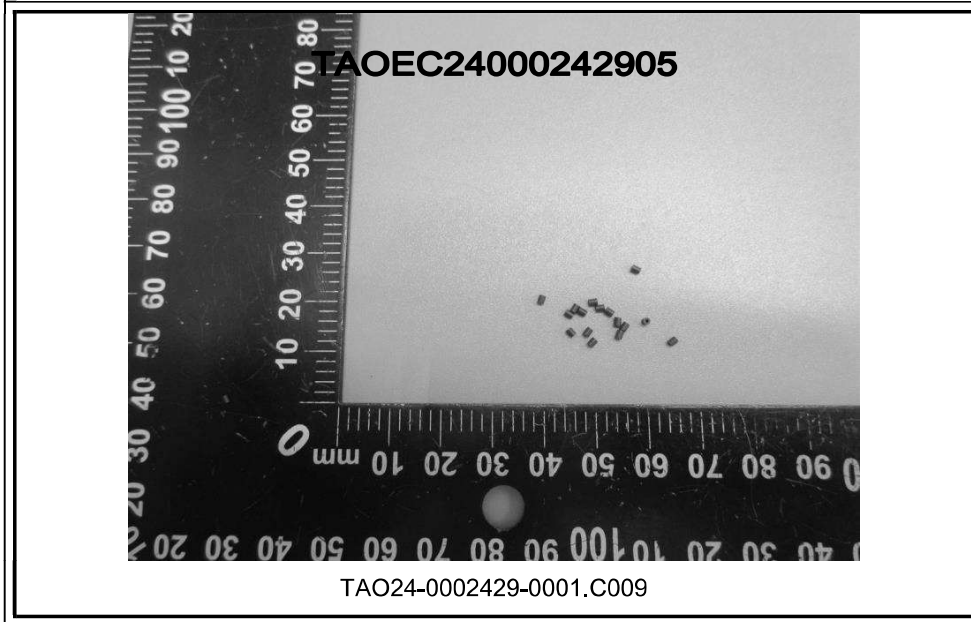
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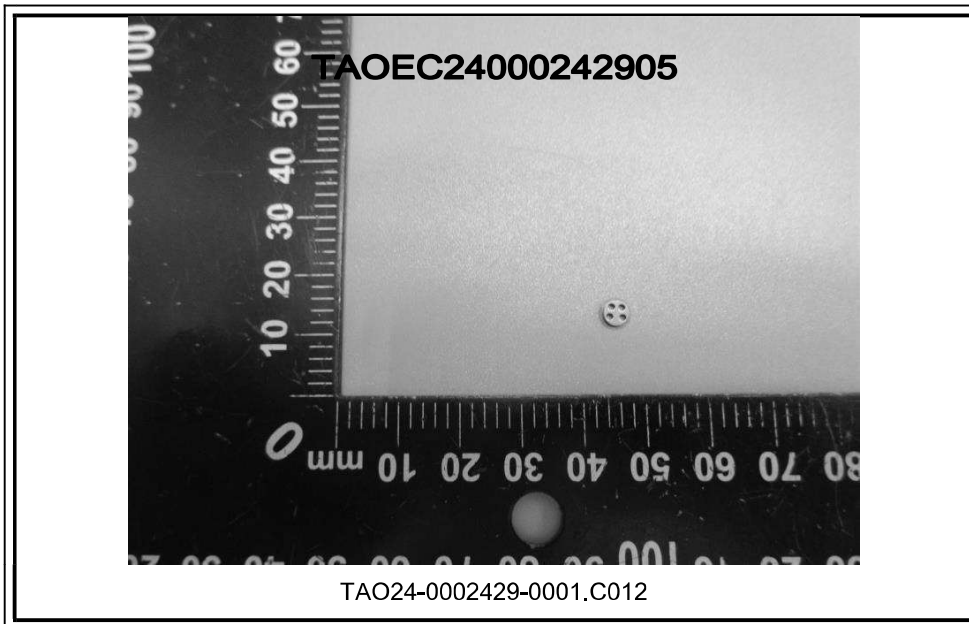
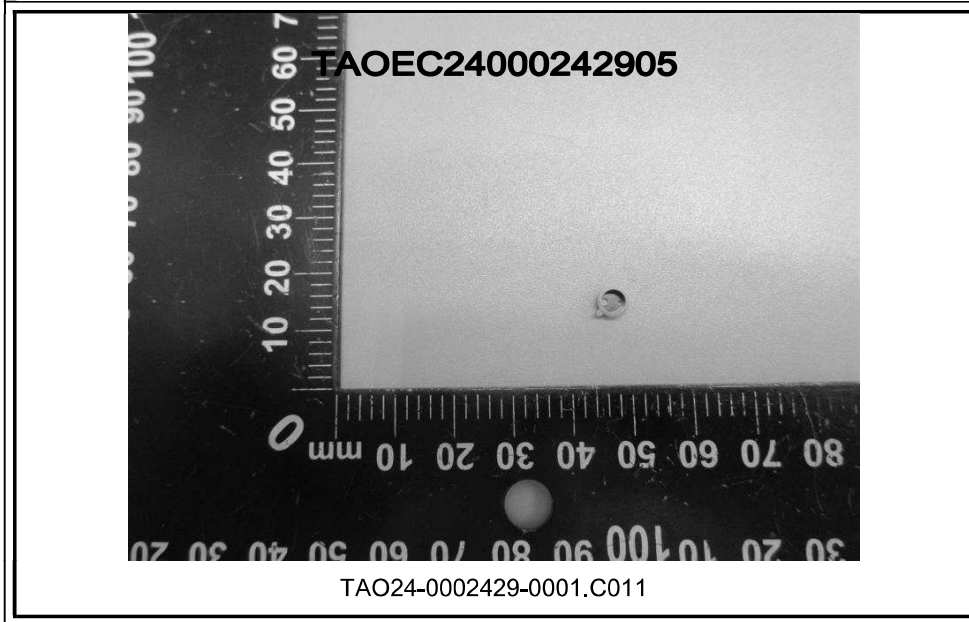


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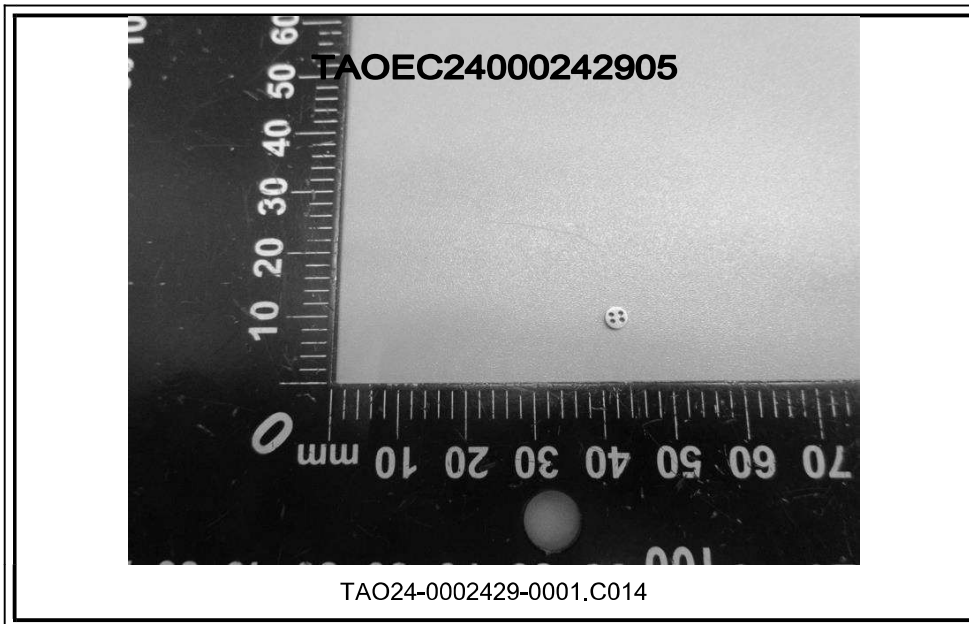
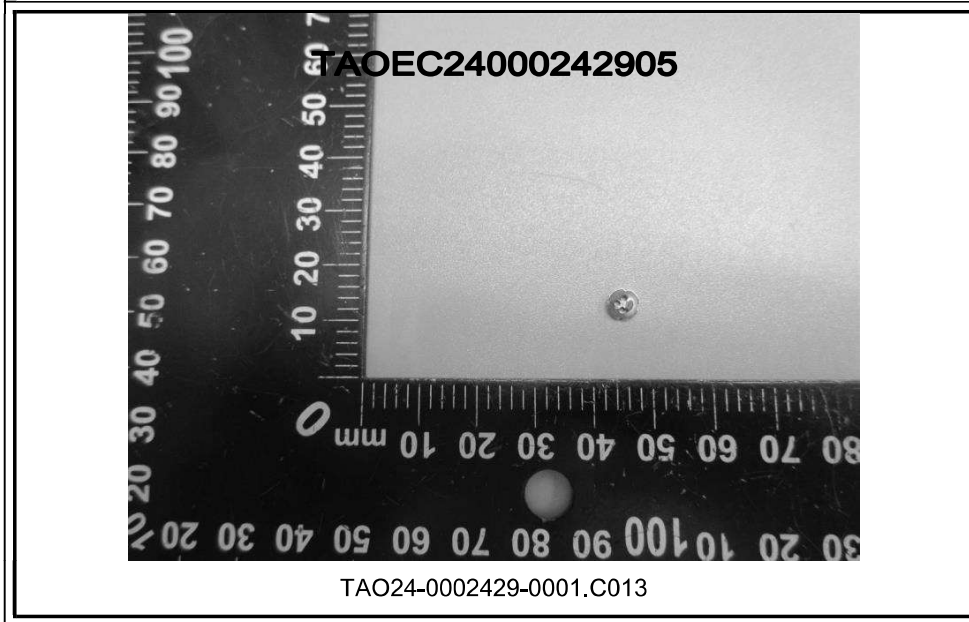


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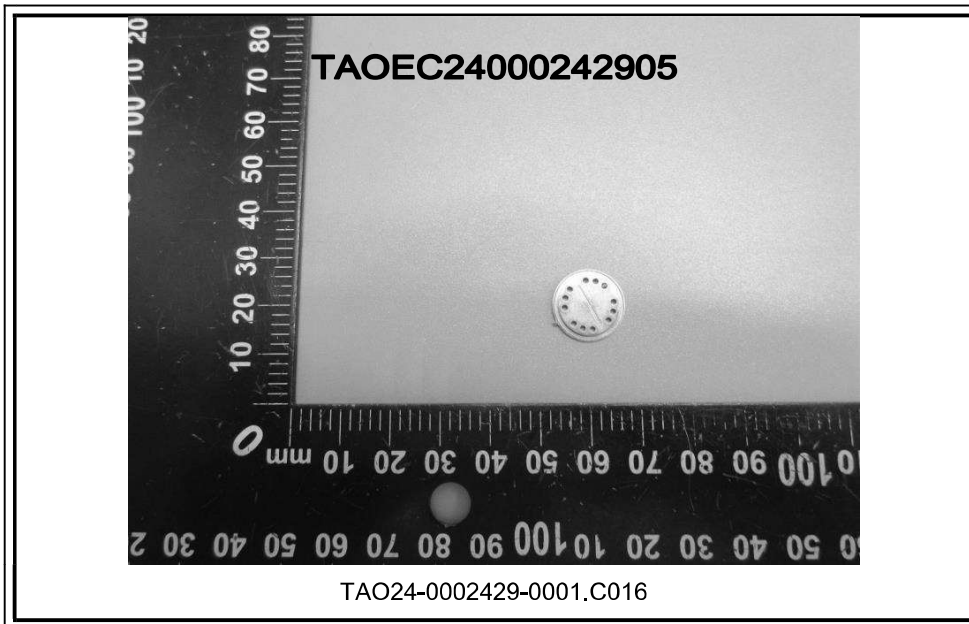
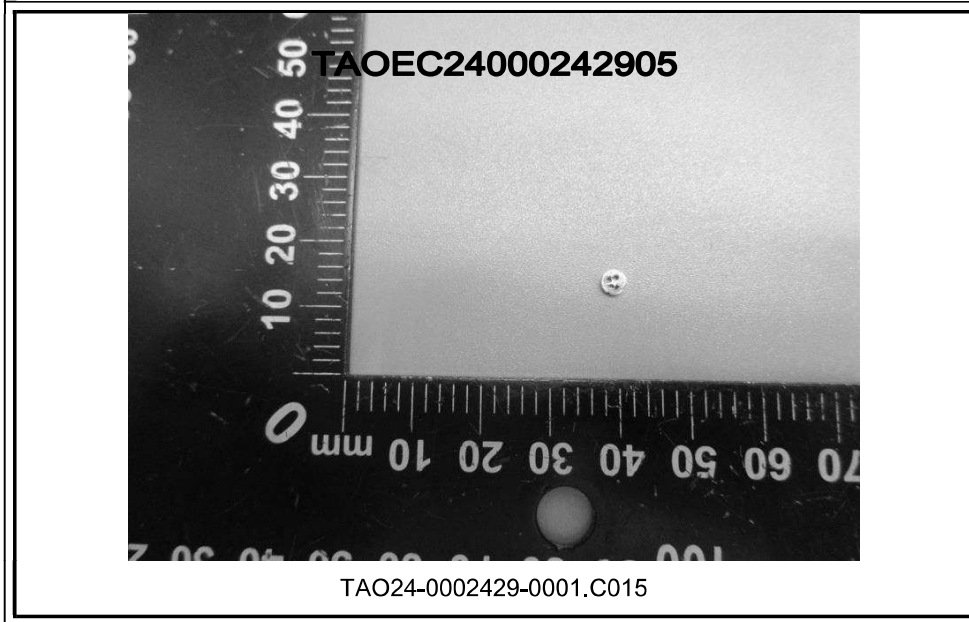


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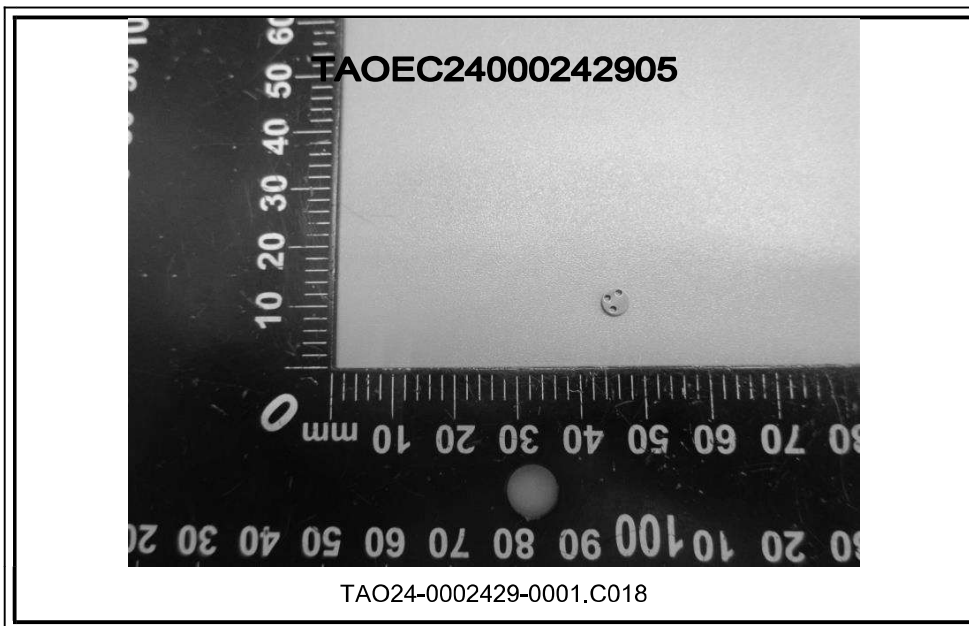
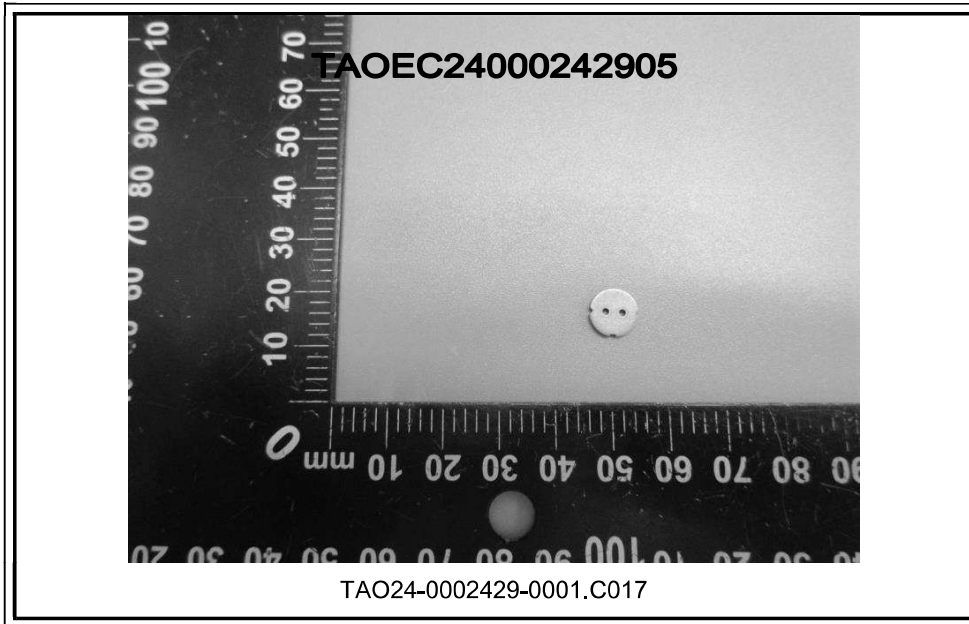


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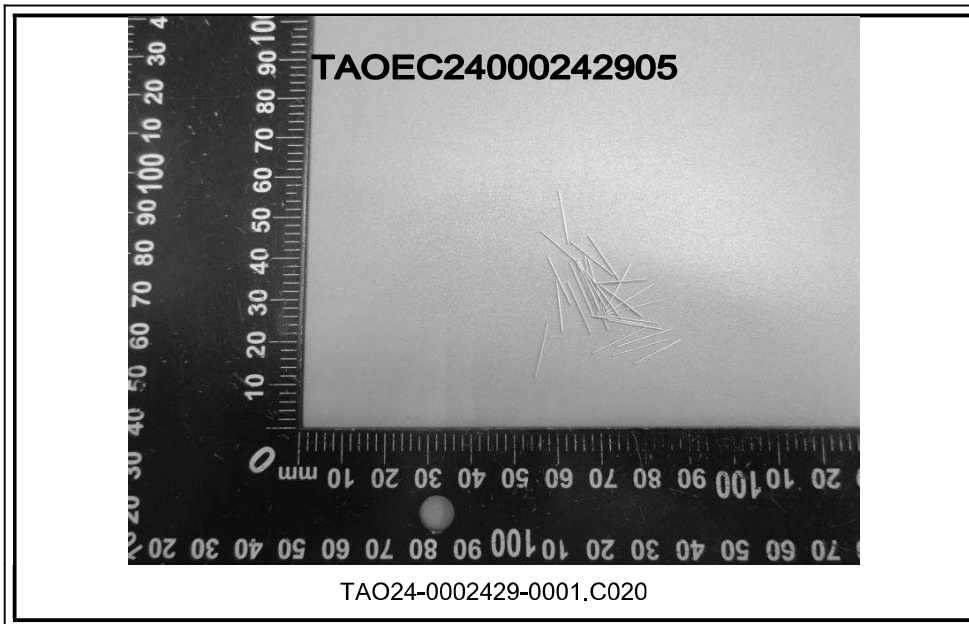
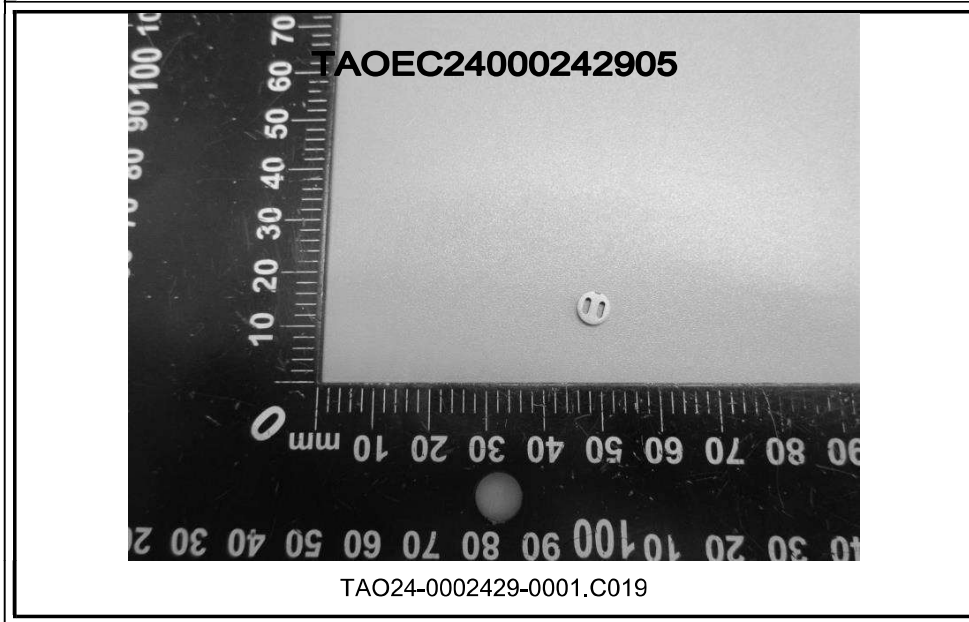


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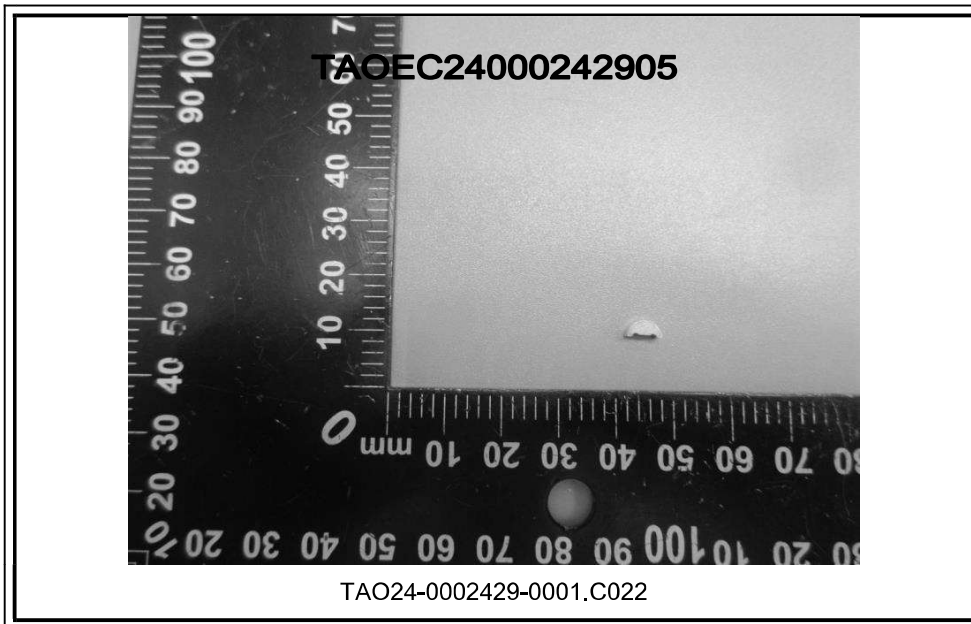
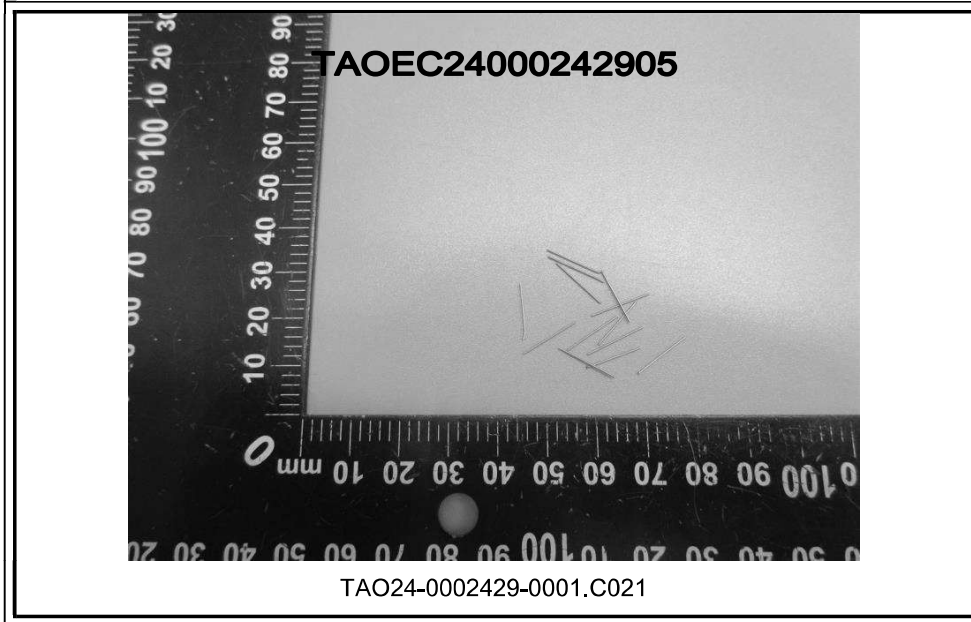
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