

Test Report No.: SHAEC24028769409 **Date**: Dec 30, 2024 Page 1 of 19

Client Name: YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO., LTD.

Client Address: NO.6 WEST HEYE ROAD, HANJIANG DISTRICT, YANGZHOU, JIANGSU, CHINA

Sample Name: SMD

Client Ref. Information: 1.Tin ball; 3.Molding Compound (halogen Free 1); 4.GPP Chip; 5.SKY

Chip; 7.Molding Compound (halogen Free 2); 8.Molding Compound (halogen Free 3); 9.Molding Compound (halogen Free 4); 10.Lead Frame/Jumper/Lead Wire; 26.Solder Paste/Solder Perform/Solder Wire; 38.Molding Compound (halogen Free 8); 39.Molding Compound (halogen

Free 9); 40.Molding Compound (halogen Free 10)

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

SGS Job No.: SHP24-040813 Sample Receiving Date: Dec 16, 2024

Testing Period: Dec 16, 2024 ~ Dec 23, 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	Dana
(PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate	Pass
(DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl	
phthalate (DIBP)	

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

Approved Signatory



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Test Result(s):

Test Part Description:

restrait besonption:							
SN ID	Sample No.	SGS Sample ID	Description				
SN1	A1	SHA24-0287694-0001.C001	Silvery metal				
SN2	A3	SHA24-0287694-0001.C003	Gray solid				
SN3	A4	SHA24-0287694-0001.C004	Gray/black solid sheet				
SN4	A5	SHA24-0287694-0001.C005	Colorful solid sheet				
SN5	A7	SHA24-0287694-0001.C007	Gray solid				
SN6	A8	SHA24-0287694-0001.C008	Gray solid				
SN7	A9	SHA24-0287694-0001.C009	Gray solid				
SN8	A10	SHA24-0287694-0001.C010	Copper metal				
SN9	A26	SHA24-0287694-0001.C026	Silvery metal wire				
SN10	A38	SHA24-0287694-0001.C038	Gray solid				
SN11	A39	SHA24-0287694-0001.C039	Gray solid				
SN12	A40	SHA24-0287694-0001.C040	Gray solid				

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	A3	A4	A5
Lead (Pb)	1000	mg/kg	2	ND	21965▲	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	ı	ND	ND	ND
Monobrominated biphenyl (MonoBB)	ı	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	1	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	1	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	ı	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	ı	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A3	A4	A5	
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND	
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND	
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND	
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND	
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND	
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND	
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND	
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND	
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND	
Hexabrominated diphenyl ether (HexaBDE)	1	mg/kg	25	ND	ND	ND	
Heptabrominated diphenyl ether (HeptaBDE)	1	mg/kg	25	ND	ND	ND	
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND	
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND	
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND	
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND	

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
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))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	ı	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A38	A39	A40
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))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND



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T (1)		11 27	N/D:	100	100	A 10
Test Item(s)	Limit	Unit(s)	MDL	A38	A39	A40
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	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.



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Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A10
Lead (Pb)	1000	mg/kg	2	38	7(10
Mercury (Hg)	1000	mg/kg	2	ND	, ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether			0.5		
(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	_	mg/kg	25	ND	ND
(TetraBDE)	_	ilig/kg	23	ND	ND
Pentabrominated diphenyl ether	_	mg/kg	25	ND	ND
(PentaBDE)		mg/kg		ND	ND
Hexabrominated diphenyl ether	_	mg/kg	25	ND	ND
(HexaBDE)		9,9		.,,5	.,,5
Heptabrominated diphenyl ether	_	mg/kg	25	ND	ND
(HeptaBDE)		3 3	_		
Octabrominated diphenyl ether	-	mg/kg	25	ND	ND
(OctaBDE)					
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
Discounty i intimatato (DIDI)	1000	1119/119	50	140	110

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.



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> 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.

Test Method: With reference to Titration method, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013,

IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS,

UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A26
Lead(Pb)	0.1	%	-	92.5▲
Mercury(Hg)	1000	mg/kg	2	ND
Cadmium(Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	ı	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND



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Test Item(s)	Limit	Unit(s)	MDL	A26
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	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.
- 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.

▲ According to the declaration from the client, Lead (Pb) in No.A26 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

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 ▲ According to the declaration from the client, Lead (Pb) in No.A4 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:

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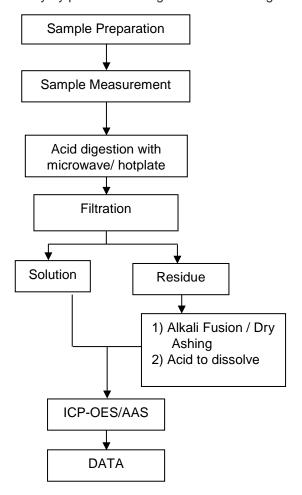
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Elements Testing Flow Chart

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





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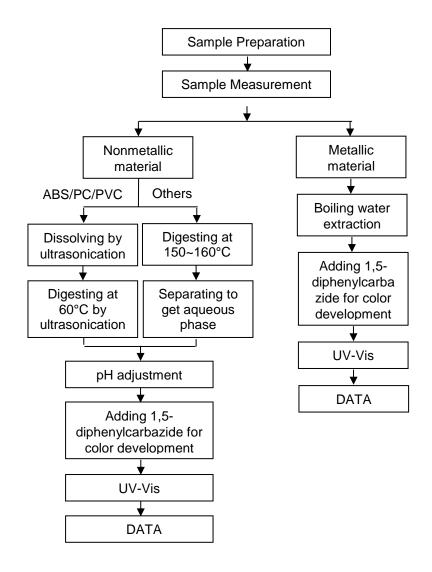


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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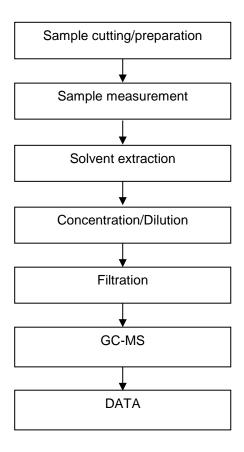
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PBB/PBDE/Phthalates Testing Flow Chart





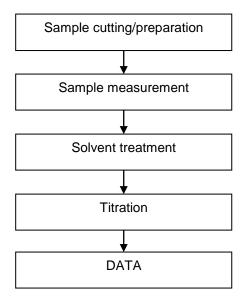
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Titration Testing Flow Chart





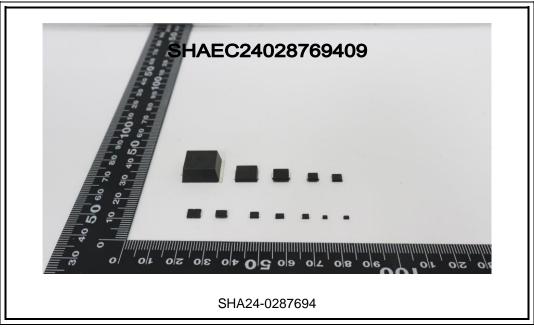
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Sample Photo:







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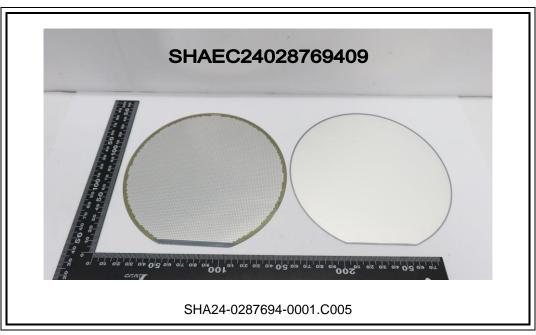


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