

Test Report

No. SH9156565/CHEM

Date: Aug. 17, 2009

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KJ (H.K.) ELECTRONICS CO., LIMITED
1F, SUNLING PLAZA, 30 ON KUI STREET, FANLING, N.T. HONGKONG

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Name : V-CHIP ALUMINUM ELECTROLYTIC CAPACITOR
SGS Ref No. : SZ12078561-10.10
Supplier : KJ(H.K.) ELECTRONICS CO., LIMITED

Sample Receiving Date : Aug.12, 2009
Testing Period : Aug.12 – 15, 2009

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321:2008
(1) Determination of Cadmium by ICP-OES.
(2) Determination of Lead by ICP-OES and AAS.
(3) Determination of Mercury by ICP-OES.
(4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC/MS.

Test Results : Please refer to next pages

Conclusion : Based on the performed tests on submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	2	3	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	ND	ND	2	100
Lead (Pb)	(2)	ND	ND	ND	2	1000
Mercury (Hg)	(3)	ND	ND	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	---	---	ND	2	1000
Hexavalent Chromium (CrVI) by spot test / boiling-water extraction	(4)	Negative	Negative	---	#	-
Sum of PBBs	(5)	ND	ND	ND	-	1000
Monobromobiphenyl		ND	ND	ND	5	-
Dibromobiphenyl		ND	ND	ND	5	-
Tribromobiphenyl		ND	ND	ND	5	-
Tetrabromobiphenyl		ND	ND	ND	5	-
Pentabromobiphenyl		ND	ND	ND	5	-
Hexabromobiphenyl		ND	ND	ND	5	-
Heptabromobiphenyl		ND	ND	ND	5	-
Octabromobiphenyl		ND	ND	ND	5	-
Nonabromobiphenyl		ND	ND	ND	5	-
Decabromobiphenyl		ND	ND	ND	5	-
Sum of PBDEs		ND	ND	ND	-	1000
Monobromodiphenyl ether		ND	ND	ND	5	-
Dibromodiphenyl ether		ND	ND	ND	5	-
Tribromodiphenyl ether		ND	ND	ND	5	-
Tetrabromodiphenyl ether		ND	ND	ND	5	-
Pentabromodiphenyl ether		ND	ND	ND	5	-
Hexabromodiphenyl ether		ND	ND	ND	5	-
Heptabromodiphenyl ether		ND	ND	ND	5	-
Octabromodiphenyl ether		ND	ND	ND	5	-
Nonabromodiphenyl ether	ND	ND	ND	5	-	
Decabromodiphenyl ether ##	ND	ND	ND	5	-	

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Test Item(s):	Method (refer to)	4	5	6	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	ND	ND	2	100
Lead (Pb)	(2)	ND	ND	5	2	1000
Mercury (Hg)	(3)	ND	ND	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	ND	ND	ND	2	1000
Sum of PBBs	(5)	ND	ND	ND	-	1000
Monobromobiphenyl		ND	ND	ND	5	-
Dibromobiphenyl		ND	ND	ND	5	-
Tribromobiphenyl		ND	ND	ND	5	-
Tetrabromobiphenyl		ND	ND	ND	5	-
Pentabromobiphenyl		ND	ND	ND	5	-
Hexabromobiphenyl		ND	ND	ND	5	-
Heptabromobiphenyl		ND	ND	ND	5	-
Octabromobiphenyl		ND	ND	ND	5	-
Nonabromobiphenyl		ND	ND	ND	5	-
Decabromobiphenyl		ND	ND	ND	5	-
Sum of PBDEs		ND	ND	ND	-	1000
Monobromodiphenyl ether		ND	ND	ND	5	-
Dibromodiphenyl ether		ND	ND	ND	5	-
Tribromodiphenyl ether		ND	ND	ND	5	-
Tetrabromodiphenyl ether		ND	ND	ND	5	-
Pentabromodiphenyl ether		ND	ND	ND	5	-
Hexabromodiphenyl ether		ND	ND	ND	5	-
Heptabromodiphenyl ether		ND	ND	ND	5	-
Octabromodiphenyl ether		ND	ND	ND	5	-
Nonabromodiphenyl ether	ND	ND	ND	5	-	
Decabromodiphenyl ether ##	ND	ND	ND	5	-	

(For sample 5: Result shown is of the total weight of liquid sample)

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Test Item(s):	Method (refer to)	7	8	9	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	ND	ND	2	100
Lead (Pb)	(2)	20	6	ND	2	1000
Mercury (Hg)	(3)	ND	ND	ND	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	---	ND	ND	2	1000
Hexavalent Chromium (CrVI) by spot test / boiling-water extraction	(4)	Negative	---	---	#	-
Sum of PBBs	(5)	ND	ND	ND	-	1000
Monobromobiphenyl		ND	ND	ND	5	-
Dibromobiphenyl		ND	ND	ND	5	-
Tribromobiphenyl		ND	ND	ND	5	-
Tetrabromobiphenyl		ND	ND	ND	5	-
Pentabromobiphenyl		ND	ND	ND	5	-
Hexabromobiphenyl		ND	ND	ND	5	-
Heptabromobiphenyl		ND	ND	ND	5	-
Octabromobiphenyl		ND	ND	ND	5	-
Nonabromobiphenyl		ND	ND	ND	5	-
Decabromobiphenyl		ND	ND	ND	5	-
Sum of PBDEs		ND	ND	ND	-	1000
Monobromodiphenyl ether		ND	ND	ND	5	-
Dibromodiphenyl ether		ND	ND	ND	5	-
Tribromodiphenyl ether		ND	ND	ND	5	-
Tetrabromodiphenyl ether		ND	ND	ND	5	-
Pentabromodiphenyl ether		ND	ND	ND	5	-
Hexabromodiphenyl ether		ND	ND	ND	5	-
Heptabromodiphenyl ether		ND	ND	ND	5	-
Octabromodiphenyl ether		ND	ND	ND	5	-
Nonabromodiphenyl ether	ND	ND	ND	5	-	
Decabromodiphenyl ether ##	ND	ND	ND	5	-	

Test Part Description:

1. Silvery metal pin
2. Silvery-grey metal foil
3. White paper
4. Yellow plastic sheet with adhesive
5. Transparent liquid
6. Black rubber block
7. Silvery metal shell
8. Black plastic board
9. Black ink

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Note:

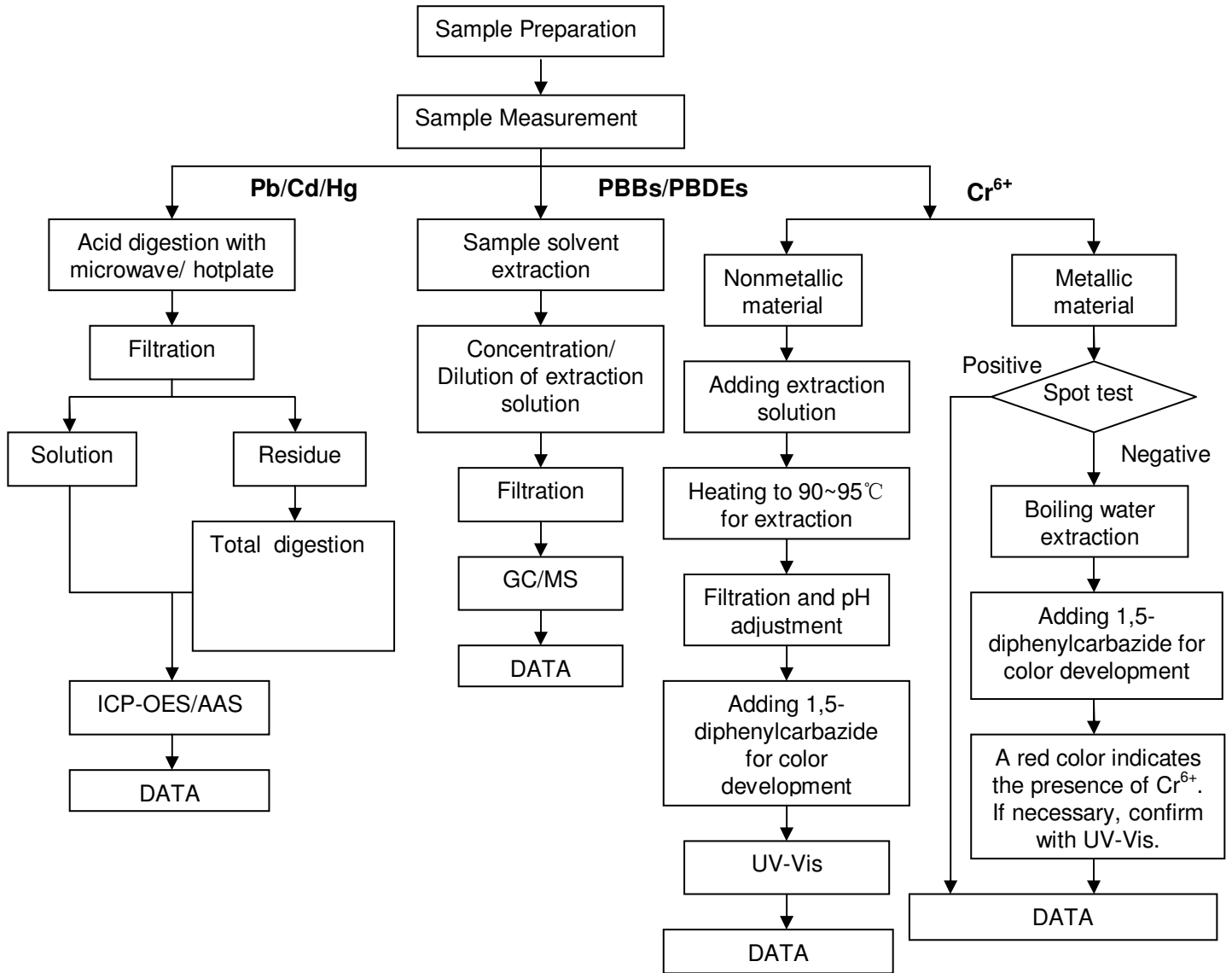
- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) # = Spot-test:
 - Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 - (The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
 - Boiling-water-extraction:
 - Negative = Absence of CrVI coating
 - Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 - For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.
- (5) ##=The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008.
- (6) "-" = Not Regulated
- (7) "---" = Not Conducted
- (8) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

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ATTACHMENTS

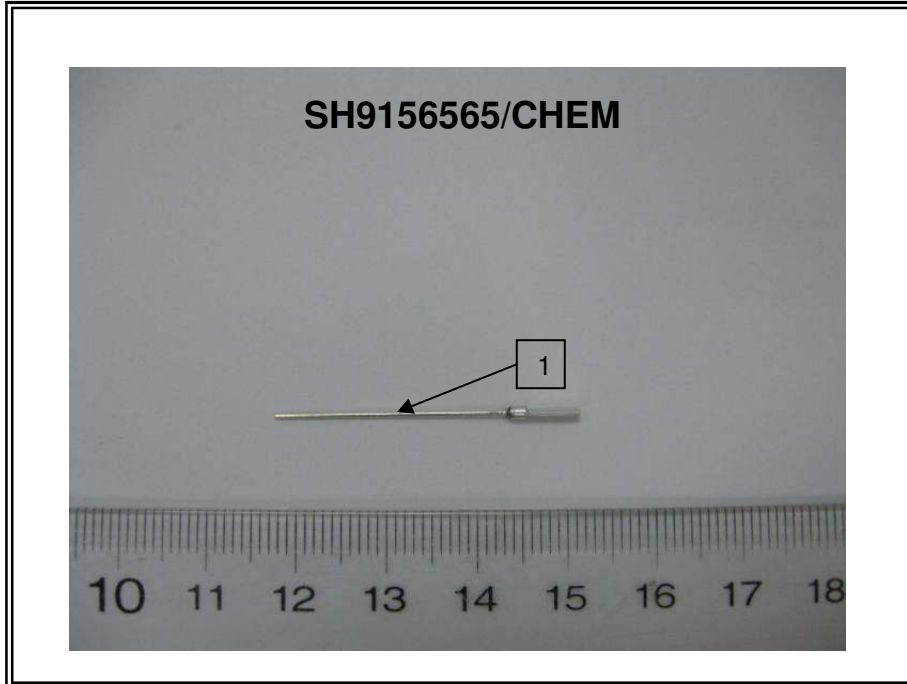
- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



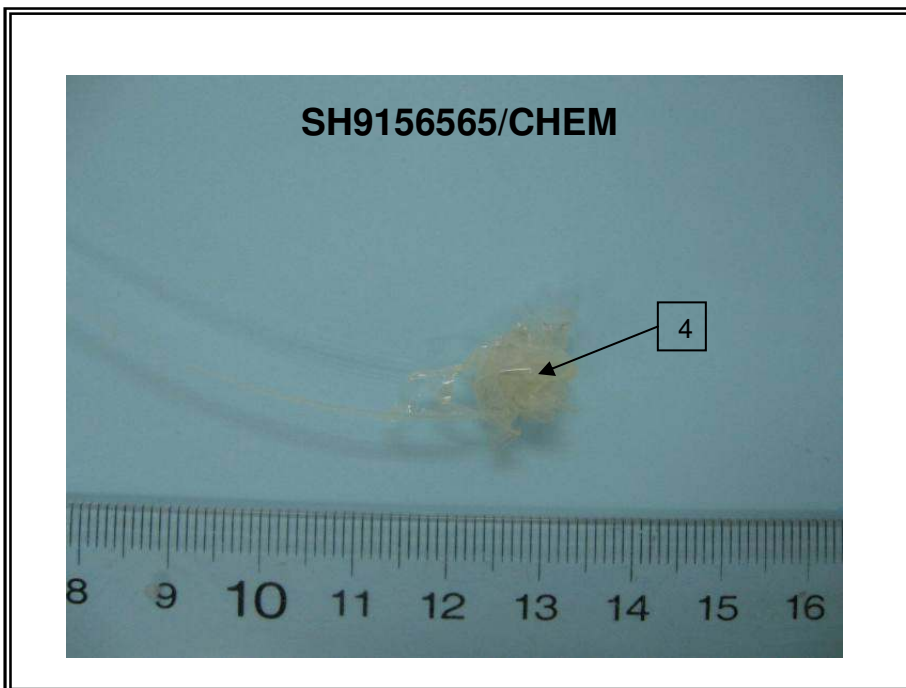
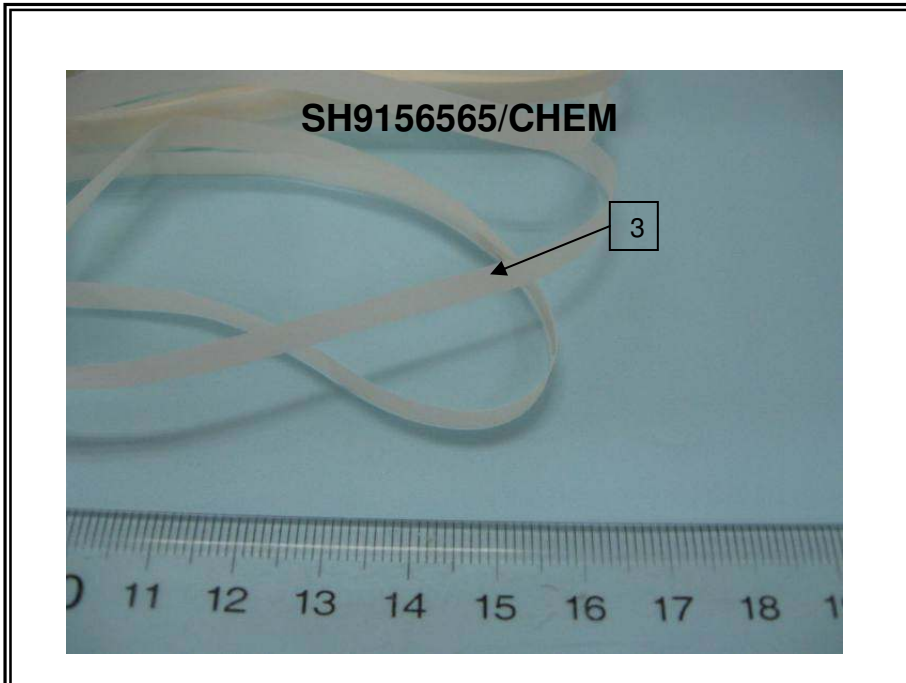
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Sample photo:

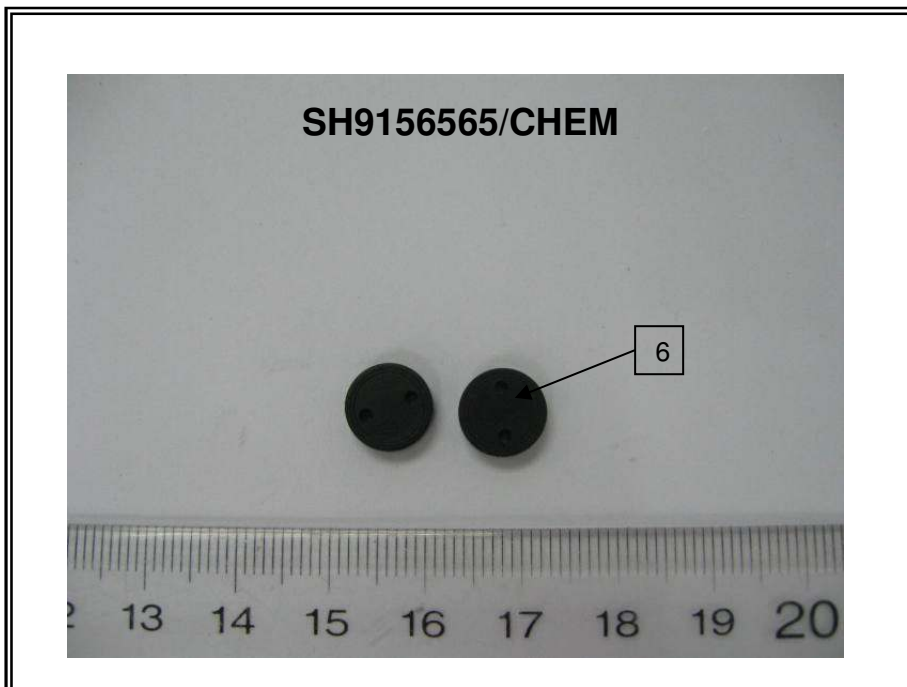


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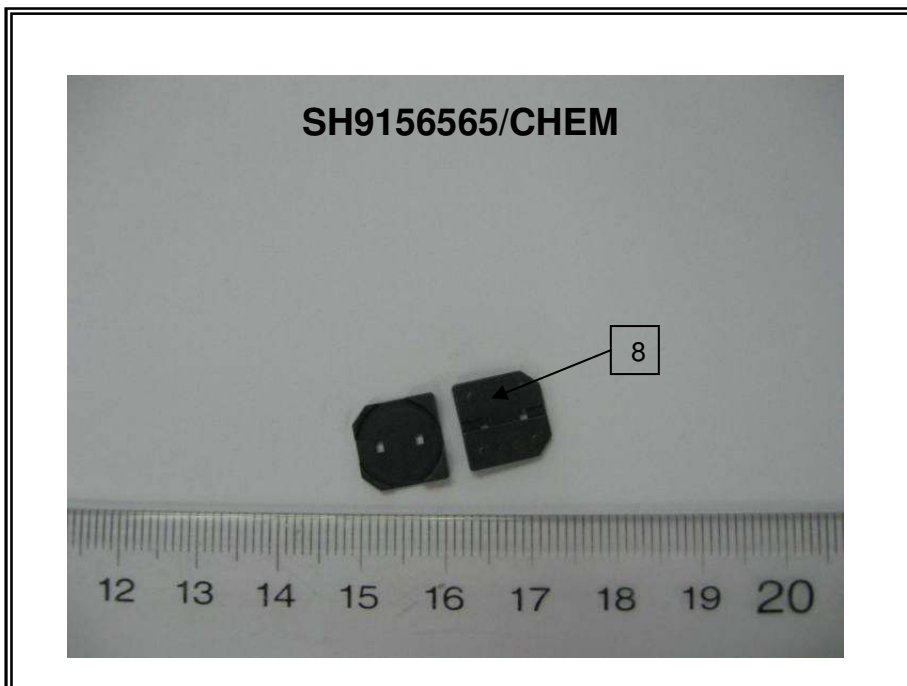
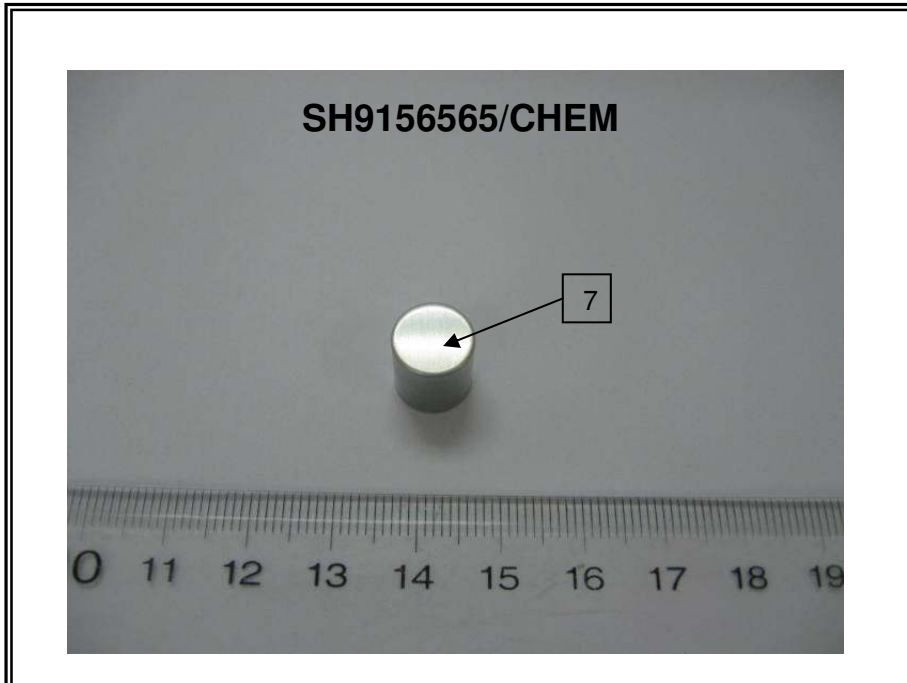


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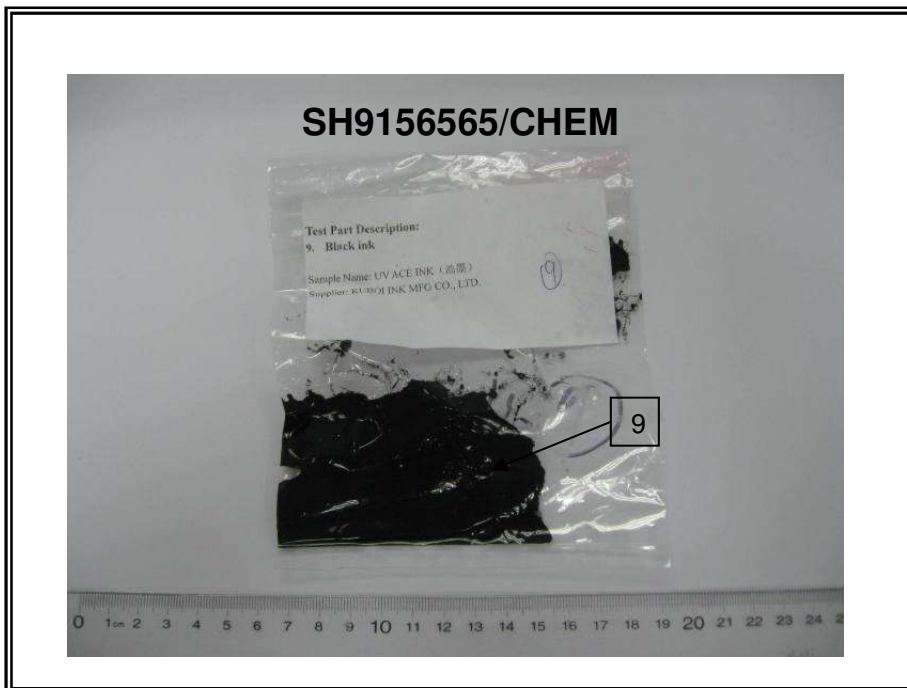
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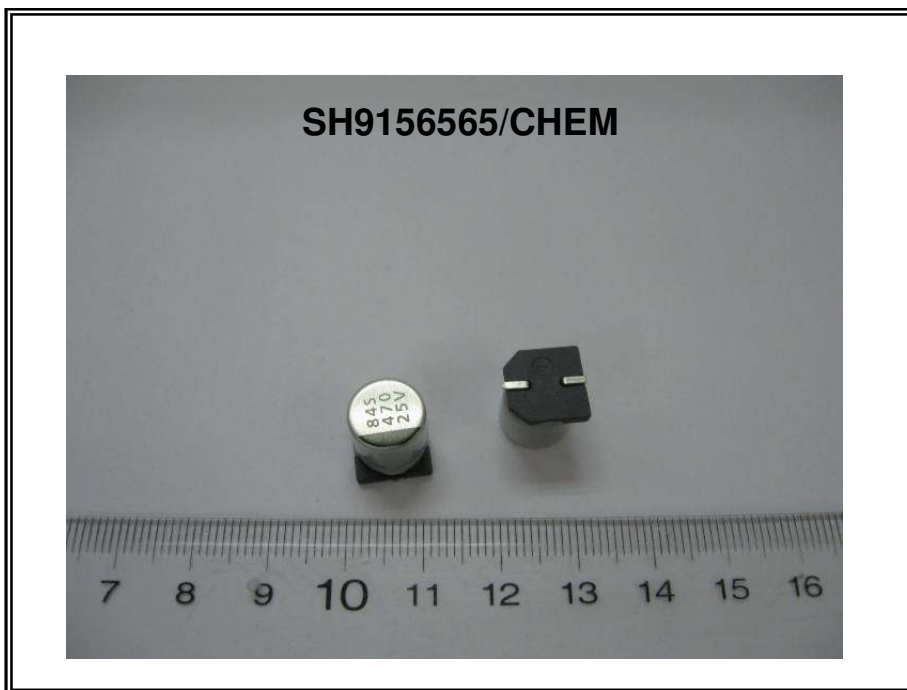


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