

No. CANEC2300364469

Date: 20 Feb 2023

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Client Name : LE SHAN SHARE ELECTRONIC CO, LTD Client Address : NO.9 NANXIN ROAD, HIGH-TECH ZONE LESHAN CITY, SICHUANP.R CHINA

Sample Name :	Rectifier bridge
Model No. :	HD25SB100
Client Ref. Info. :	See remark
The above sample(s) and information	ation were provided by the client.

This report is to supersede test report CANEC2300364435

SGS Job No. :	10023982 - CQ
Date of Sample Received :	06 Jan 2023
Testing Period :	06 Jan 2023 - 19 Jan 2023
Test Requested :	Selected 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).

Result Summary :

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), 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

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zmguan

Zm guan Approved Signatory





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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-003644.006	Black plastic shell with chip
SN2	CAN23-003644.007	Silvery metal pin
SN3	CAN23-003644.008	Copper-colored with silvery metal with solder with chip
SN4	CAN23-003644.009	Silver-gray metal

Remarks :

(1) 1 mg/kg = 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
100	mg/kg	2	ND
1000	mg/kg	2	98
1000	mg/kg	2	ND
1000	mg/kg	8	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
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-	mg/kg	5	ND
-	mg/kg	5	ND
1000	mg/kg	-	ND
	100 1000 1000 1000 - - - - - - - - - - -	100 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg - mg/kg - </td <td>100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 2 1000 mg/kg 8 1000 mg/kg - 1000 mg/kg - - mg/kg 5 - mg/kg 5</td>	100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 2 1000 mg/kg 8 1000 mg/kg - 1000 mg/kg - - mg/kg 5 - mg/kg 5



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	
Monobromodiphenyl ether	-	mg/kg	5	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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

(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+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>	<u>008</u>	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	7	29223▲	6
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI 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.

Remark 1A:According to the declaration from the client, Lead (Pb) in specimen 008 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).

Remark 2: Results & photo(s) of this report refer to test report CANEC2300364467.

This report adds Client Ref. Info. and deletes Material No..

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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Remark:

HD Model HD, followed by 15,20,25,30,35,50,60,followed
by SB, followed by 05,06,10,20,40,60,80,100,120,140,160, maybe
followed by FR GBU Model GBU, followed by 4,6,8,10,15
.20,25,30 followed by 02.04,06,08,10,12,14,16,followed by H,FH
3QX Model 3QX, followed by 50,60,75,100,120,150,followed
by A, followed by 05,10,20,40,60,80,100,120,140,160,200,250, maybe
followed by J,KL,F,FL.G 3QW Model 3QW, followed by 150, 160, 200,
followed by A, followed by 05,10,20,40,60,80,100,120,140,160,200,250,
maybe followed by F,G 3QH Model 3QH,
followed by10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,
95,100,110,120,130,140,150,160, 180,200, followed by A,
followed by 60,80,100,120,140,160,180,200,250 maybe followed by A,B,C,
MFDK Model MFDK, followed by 100,120,150,180,200,240,
300,360, followed by 20,30,40,60,80,100 maybe followed by A
MFDB Model MFDB, followed by 60,75,80,100,120,150,
180,200, followed by 20,30,40,60,80,100 ,120,140 maybe followed by A,B,C
MFDQ Model MFDB, followed by 60,75,80,100,120,150,
180,200, followed by 20,30,40,60,80,100 ,120,140 maybe followed by A,B,C



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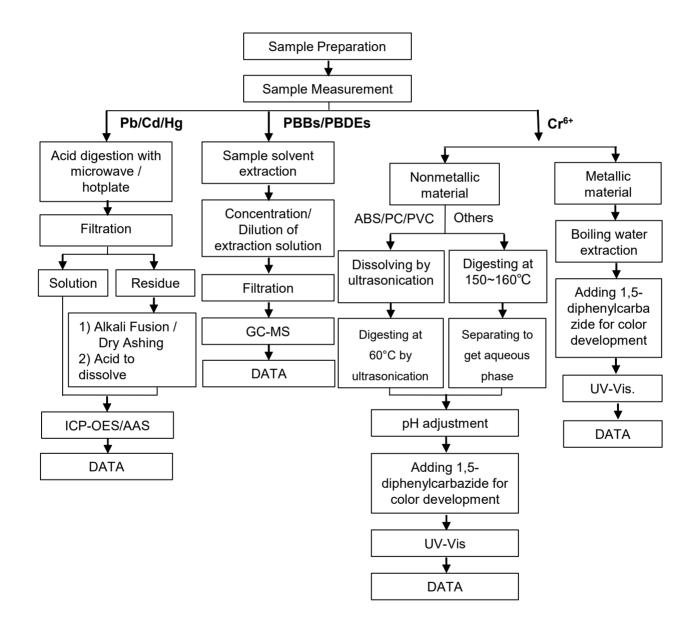
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ATTACHMENTS

Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) 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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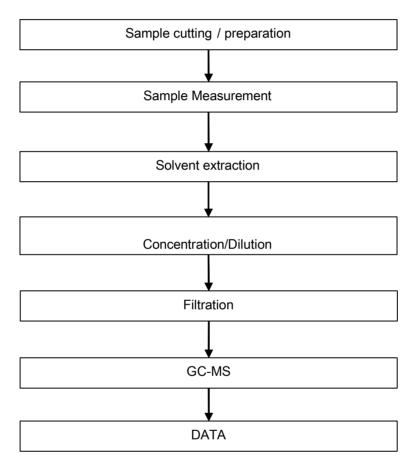
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ATTACHMENTS

Phthalates Testing Flow Chart





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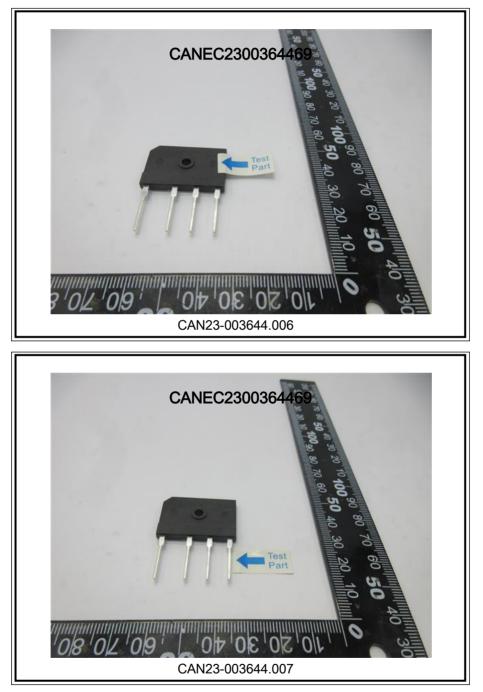
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Sample photo:





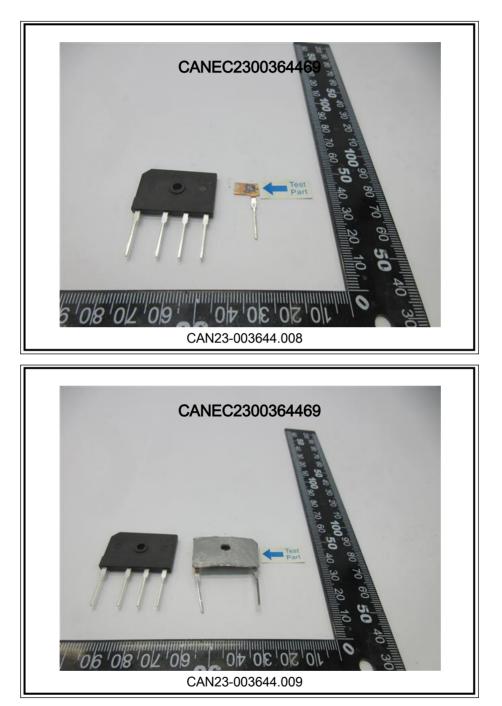
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