SGS

Test Report

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MULTICOMP PRODUCTS MANUFACTURED BY
JILIN HUASHENG ELECTRONICS CO., LTD
NO. 100 CHANGJIANG STREET, JILIN CITY 132003. CHINA

Report on the submitted sample said to be SMD ALUMINIUM ELECTROLYTIC CAPACITORS.

SGS Job No.	:	1760052
Part Description	:	EL SERIES, 105°C
Buyer	:	PREMIER FARNELL ASIA PTE LTD
Supplier	:	SANG JING ELECTRONICS CO LTD
Sample Receiving Date	:	MAY 09 2005
Testing Period	:	MAY 10-19 2005

Test Requested : With reference to RoHS Directive 2002/95/EEC
1) To determine the Cadmium Content in the submitted sample.
2) To determine the Lead Content on the submitted sample.
3) To determine the Mercury Content on the submitted sample.
4) To determine the Hexavalent Chromium Content on the submitted sample.
5) To determine the Cadmium, Lead and Mercury content in the submitted metal sample.
6) Determination of PBBs (Polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method :
1) As specified in BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
2) As specified in EPA Method 3050B.
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
3) As specified in EPA Method 3052.
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
4) As specified in EPA Method 3060A & 7196A.
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.
5) In house method. The sample was digested by acid. Analysis was performed by Atomic Absorption or Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
6) With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results : 1-6) Please refer to next page.

Conclusion : 1-6) When tested as specified, the submitted samples comply with the requirements of RoHS Directive Consultation document on 2002/95/EC.

Signed for and on behalf of
SGS Hong Kong Ltd

Ho Ka Ting, Family
Laboratory Executive

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5/F - 8/F & 28/F - 29/F, Metropole Square, 2 On Yiu Street, Sui Lek Yuen, Shatin, N.T., Hong Kong. t (852) 2334 4481 f (852) 2764 3126 www.hk.sgs.com

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Test Results :

1-5)

Element	1	2	3	4	Limit of RoHS Consultant Document
Cadmium (Cd)	< 2 ppm	< 2 ppm	< 2 ppm	< 2 ppm	100 ppm
Lead (Pb)	< 2 ppm	< 2 ppm	6 ppm	< 2 ppm	1000 ppm
Mercury (Hg)	< 2 ppm	< 2 ppm	< 2 ppm	< 2 ppm	1000 ppm
Hexavalent Chromium (Cr^{6+})	< 2 ppm	< 2 ppm	< 2 ppm	< 2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note: < = Less than
ppm = mg/kg

6)

Flame Retardants	1	2	3	4	Detection Limit	Limit of RoHS Consultant Document
Polybrominated Biphenyls (PBBs)	---	---	---	---	---	1000 ppm
Monobromobiphenyl	ND	ND	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Decabromobiphenyl	ND	ND	ND	ND	5 ppm	--
Polybrominated Diphenylethers (PBDEs)	---	---	---	---	---	1000 ppm
Monobromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	ND	ND	5 ppm	--
Nonabromodiphenyl ether	ND	ND	ND	45 ppm	5 ppm	--
Decabromodiphenyl ether	ND	ND	11 ppm	40 ppm	5 ppm	--

Note: ND = Not Detected
Non-detected is lower than detection limit value.

Sample Description:
1. Black Plastic w/ White Paper (inside capacitor)
2. Black Plastic (base cover)
3. Silvery Metal w/ Grey Printing (case)
4. Grey Metal (foil) w/ Silvery Metal (pin)

Remark : Photo appendix is included

*** End of Report ***

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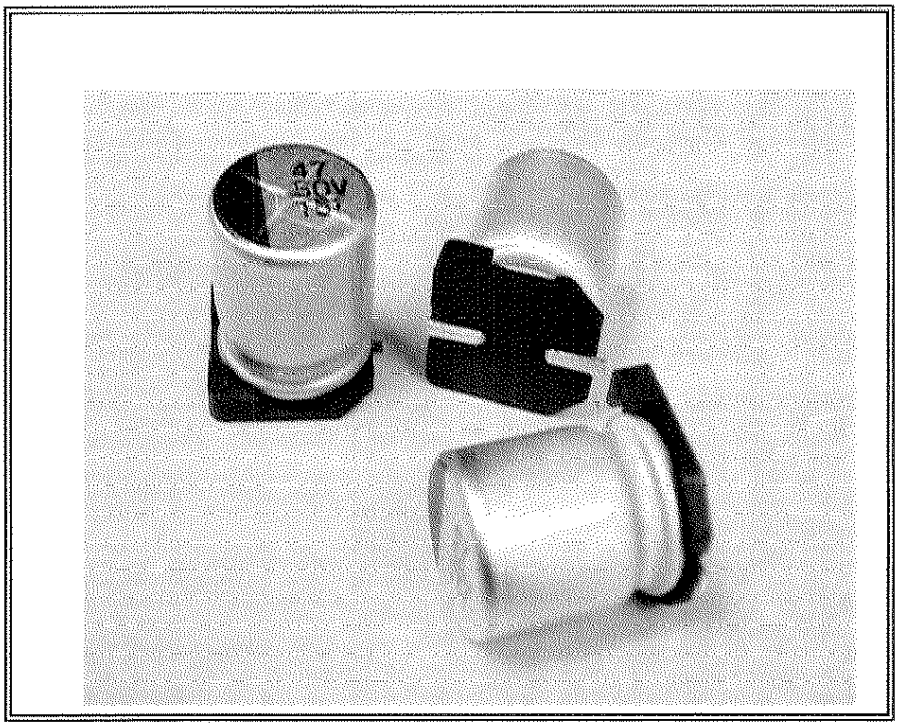
Test Report No. : 2022398/EC Sample Receiving Date : MAY 09 2005

PHOTO APPENDIX



SGS authenticate the photo on original report only

Authorized Signature
Ho Ka Ting, Family
Laboratory Executive

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