



# Test Report


MULTICOMP PRODUCTS MANUFACTURED  
BY SANG JING ELECTRONICS CO., LTD.  
6F-4, NO.16, LANE 270, SEC 3, PEI SHEN ROAD,  
SHEN KENG, TAIPEI 222, TAIWAN

Report No. : CE/2005/42666A  
Date : 2005/04/20  
Page : 1 of 6

**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : ALUMINUM ELECTROLYTIC CAPACITORS  
Style/Item No : UMR/UMHR/MR/MHR/GPR/RH/LPR/HPR  
Sample Received : 2005/04/13  
Testing Date : 2005/04/13 TO 2005/04/20

=====  
**Conclusion** : The test results of Pb, Cd, Hg, Cr+6, PBB and PBDE for the submitted sample which is comply with the requirements of RoHS (2002/95/EC).

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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Report No. : CE/2005/42666A  
 Date : 2005/04/20  
 Page : 2 of 6

## Test Result

- PART NAME NO.1 : BLACK PLASTIC TUBE WITH WHITE PRINTED (PLEASE REFER TO THE PHOTO ATTACHED)
- PART NAME NO.2 : SILVER COLORED METAL PIN (PLEASE REFER TO THE PHOTO ATTACHED)
- PART NAME NO.3 : BLACK RUBBER (PLEASE REFER TO THE PHOTO ATTACHED)
- PART NAME NO.4 : BROWN/BLACK PLASTIC AND SILVER COLORED METAL (PLEASE REFER TO THE PHOTO ATTACHED)
- PART NAME NO.5 : SILVER COLORED METAL CASE (PLEASE REFER TO THE PHOTO ATTACHED)
- PART NAME NO.6 : MIXED ALL CONTENTS (PLEASE REFER TO THE PHOTO ATTACHED)

PASS

Test Item (s):	Unit	Method	MDL	Result					Limit of ROHS
				No.1	No.2	No.3	No.4	No.5	
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D	N.D	N.D.	N.D	N.D	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	18.7	N.D.	N.D.	N.D.	1000



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 Date : 2005/04/20  
 Page : 3 of 6

PASS

Test Item (s):	Unit	Method	MDL	Result					Limit of ROHS
				No.1	No.2	No.3	No.4	No.5	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	N.D.	N.D.	---	-
Dibromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Tribromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Tetrabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Pentabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Hexabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Heptabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Octabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Nonabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Decabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	---	-
<b>Total PBBs(Polybrominated biphenyls)/Sum of above</b>	%		-	N.D.	---	N.D.	N.D.	---	0.1
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	N.D.	N.D.	---	-
Dibromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Tribromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Tetrabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Pentabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Hexabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Heptabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Octabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Nonabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
Decabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	---	-
<b>Total PBBEs(PBDEs)(Polybrominated biphenyl ethers)/Sum of above</b>	%		-	N.D.	---	N.D.	N.D.	---	0.1

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 Date : 2005/04/20  
 Page : 4 of 6

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of
				No.6	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	-
Dibromobiphenyl	%		0.0005	N.D.	-
Tribromobiphenyl	%		0.0005	N.D.	-
Tetrabromobiphenyl	%		0.0005	N.D.	-
Pentabromobiphenyl	%		0.0005	N.D.	-
Hexabromobiphenyl	%		0.0005	N.D.	-
Heptabromobiphenyl	%		0.0005	N.D.	-
Octabromobiphenyl	%		0.0005	N.D.	-
Nonabromobiphenyl	%		0.0005	N.D.	-
Decabromobiphenyl	%		0.0005	N.D.	-
<b>Total PBBs(Polybrominated biphenyls)/Sum of above</b>	%		-	N.D.	0.1
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	-
Dibromobiphenyl ether	%		0.0005	N.D.	-
Tribromobiphenyl ether	%		0.0005	N.D.	-
Tetrabromobiphenyl ether	%		0.0005	N.D.	-
Pentabromobiphenyl ether	%		0.0005	N.D.	-
Hexabromobiphenyl ether	%		0.0005	N.D.	-
Heptabromobiphenyl ether	%		0.0005	N.D.	-
Octabromobiphenyl ether	%		0.0005	N.D.	-
Nonabromobiphenyl ether	%		0.0005	N.D.	-
Decabromobiphenyl ether	%		0.0005	N.D.	-
<b>Total PBBEs(PBDEs)(Polybrominated biphenyl ethers)/Sum of above</b>	%		-	N.D.	0.1

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Page : 5 of 6

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of ROHS
				No.6	
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

- NOTE : (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit  
(4) " --- " = Not Applicable  
(5) " - " = No Regulation



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Page : 6 of 6



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