

# SGS

## Test Report

No. 2018731/EC

Date : Jun 02 2005

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MULTICOMP PRODUCTS MANUFACTURED BY  
ROYAL ELECTRONIC FACTORY (THAILAND) CO., LTD  
20/1-2 MOO 2, KLONG-NA,  
MUANG CHACHOENGSAO 24000 THAILAND

Report on the submitted sample said to be CARBON FILM FIXED RESISTORS, 1/2W.

SGS Job No. : 1734450  
Buyer : PREMIER FARNELL ASIA PTE LTD  
Supplier / Manufacturer : ROYAL ELECTRONIC FACTORY (THAILAND) CO., LTD  
Sample Receiving Date : APR 04 2005  
Testing Period : APR 05-11 2005

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

Test Method : 1-3) In-House Method.  
The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
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) With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results : 1-5) Please refer to next page.

Conclusion : 1-5) When tested as specified, the submitted sample complies with the requirements of RoHS Directive Consultation document on 2002/95/EC.

Signed for and on behalf of  
SGS Hong Kong Ltd

  
Lee Fung Mei, Miranda  
Senior Manager

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Test Results :

Element	1	2	Limit of RoHS Consultant Document
1) Cadmium (Cd)	< 2 ppm	< 2 ppm	100 ppm
2) Lead (Pb)	11 ppm	23 ppm	1000 ppm
3) Mercury (Hg)	< 2 ppm	< 2 ppm	1000 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm	< 2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note : < = Less than  
ppm = mg/kg

5)

Flame Retardants	1	2	Detection Limit	Limit of RoHS Consultant Document
<b>Polybrominated Biphenyls (PBBs)</b>	<b>ND</b>	<b>ND</b>	<b>50 ppm</b>	<b>1000 ppm</b>
Monobromobiphenyl	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	5 ppm	--
Decabromobiphenyl	ND	ND	5 ppm	--
<b>Polybrominated Diphenylether (PBDEs)</b>	<b>ND</b>	<b>ND</b>	<b>50 ppm</b>	<b>1000 ppm</b>
Monobromodiphenyl ether	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	5 ppm	--
Nonabromodiphenyl ether	ND	ND	5 ppm	--
Decabromodiphenyl ether	ND	ND	5 ppm	--

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

### Sample Description:

1. Silvery Metal
2. White Ceramic w/ Multi-Colour Printing

Remark : Photo appendix is included

\*\*\* End of Report \*\*\*

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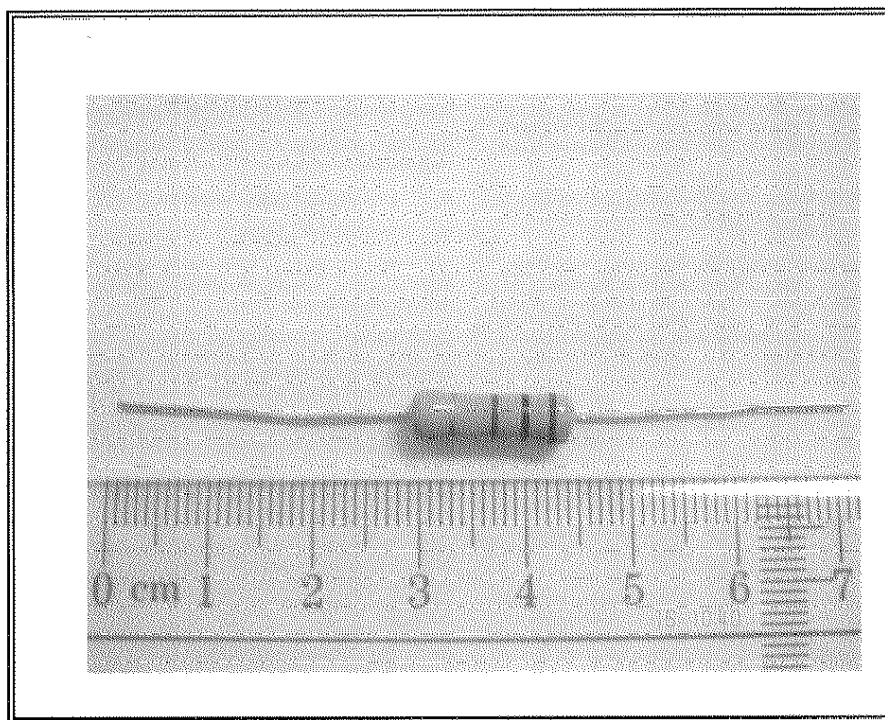
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Sample Receiving Date : APR 04 2005

### PHOTO APPENDIX



SGS authenticate the photo on original report only

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Authorized Signature  
Ho Ka Ting, Family  
Laboratory Executive

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