



## Test Report

No. 2022005/EC

Date : Jun 30 2005

Page 1 of 2

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

Report on the submitted sample said to be CHIP RESISTORS 1/16W 0603 CASE SIZE (TERMINATIONS)

SGS Job No : 1758269  
 Buyer : PREMIER FARNELL ASIA PTE LTD  
 Supplier / Manufacturer : ROYAL ELECTRONIC FACTORY (THAILAND) CO., LTD  
 Sample Receiving Date : MAY 06 2005  
 Testing Period : MAY 06-17 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

  
 Ho Ka Ting, Family  
 Laboratory Executive

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H11991912



## Test Report

No. 2022005/EC

Date : Jun 30 2005

Page 2 of 2

Test Results :

Element	1	Limit of RoHS Consultant Document
1) Cadmium (Cd)	< 2 ppm	100 ppm
2) Lead (Pb)	7 ppm	1000 ppm
3) Mercury (Hg)	< 2 ppm	1000 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note : < = Less than  
ppm = mg/kg

5)

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

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

### Sample Description:

1. White Ceramic w/ Silvery Metal

Remark: Photo appendix is included

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

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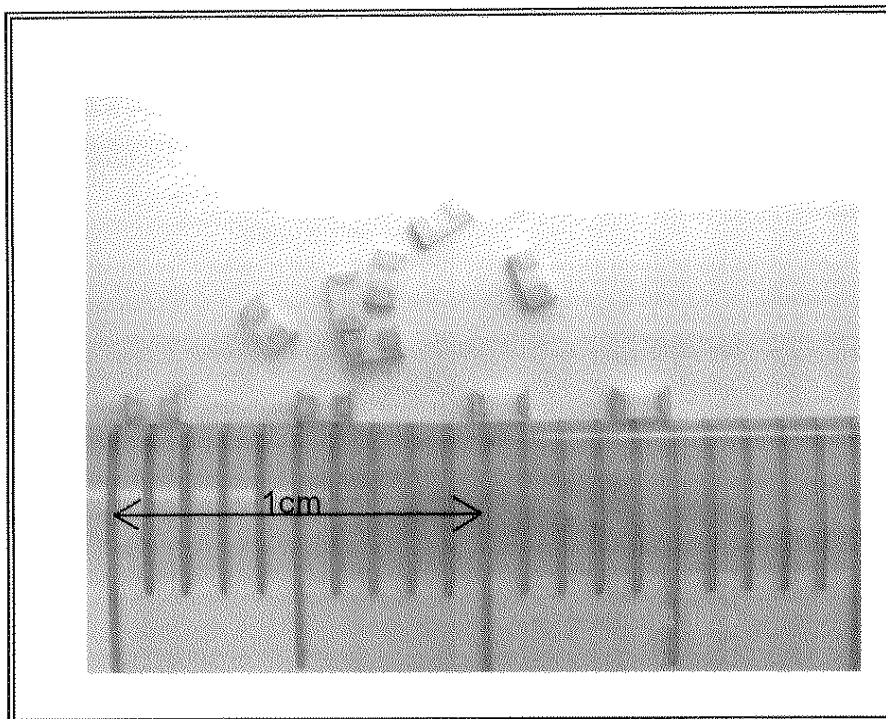
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Test Report No. : 2022005EC


Sample Receiving Date : MAY 06 2005

### PHOTO APPENDIX



SGS authenticate the photo on original report only

Page 1 of 1

  
Authorized Signature  
Ho Ka Ting, Family  
Laboratory Executive

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