



Test Report

No. 2022003/EC

Date : Jun 30 2005

Page 1 of 2

MULTICOMP PRODUCTS MANUFACTURED BY
 PAN OVERSEAS ELECTRONIC CO LTD
 11F,NO.480, RUEIGUANG ROAD
 NEIHU CHIU , TAIPEI, 114, TAIWAN , R.O.C.

Report on the submitted sample said to be MULTILAYER CERAMIC CHIP CAPACITOR, 1206 CASE SIZE

SGS Job No. : 1758269
 Part Description : Y5V dielectric
 Buyer : PREMIER FARNELL ASIA PTE LTD
 Supplier : PAN OVERSEAS ELECTRONIC 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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H11991885



Test Report

No. 2022003/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) | 6 ppm | 1000 ppm |
| 3) Mercury (Hg) | < 2 ppm | 1000 ppm |
| 4) Hexavalent Chromium (Cr ⁶⁺) | < 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 |
|---|-----------|-----------------|-----------------------------------|
| Polybrominated Biphenyls (PBBs) | ND | 50 ppm | 1000 ppm |
| 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 | -- |
| Polybrominated Diphenylether (PBDEs) | ND | 50 ppm | 1000 ppm |
| 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. Brown Ceramic w/ Silvery Metal

Remark: Photo appendix is included

*** End of Report ***

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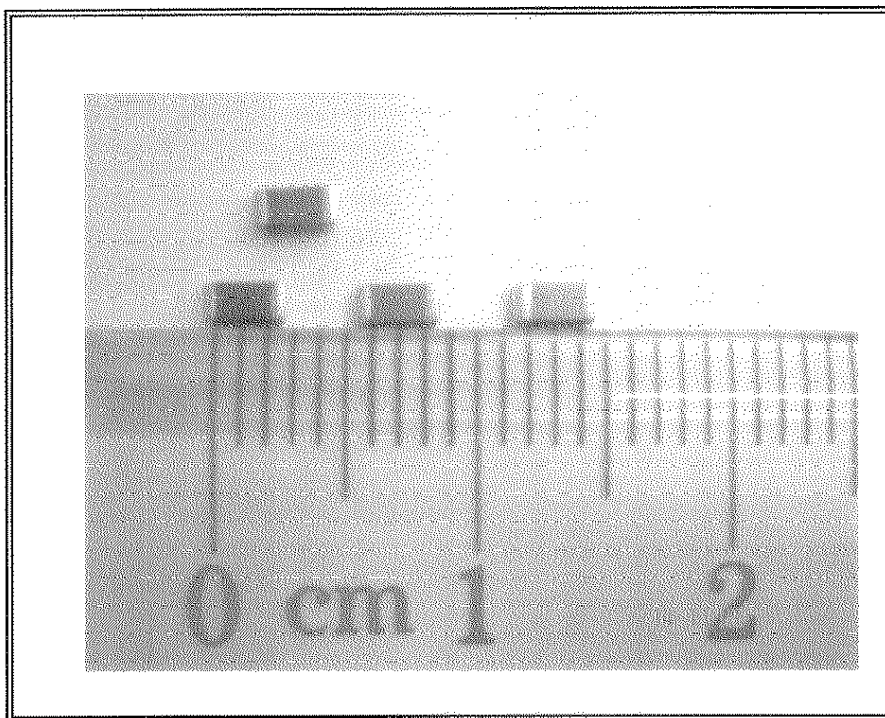
H11991884



Test Report No. : 2022003EC

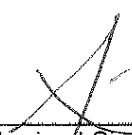
Sample Receiving Date : MAY 06 2005

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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