

**Test Report**

No. 2022002/EC

Date : Jun 30 2005

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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 : X7R dielectric
Buyer : PREMIER FARNELL ASIA PTE LTD
Supplier : PAN OVERSEAS ELECTRONIC CO., LTD.
Sample Receiving Date : MAY 06 2005
Testing Period : MAY 06-18 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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Test Results :

Element	1	Limit of RoHS Consultant Document
1) Cadmium (Cd)	< 2 ppm	100 ppm
2) Lead (Pb)	13 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. Light Brown Ceramic w/ Silvery Metal

Remark: Photo appendix is included

*** End of Report ***

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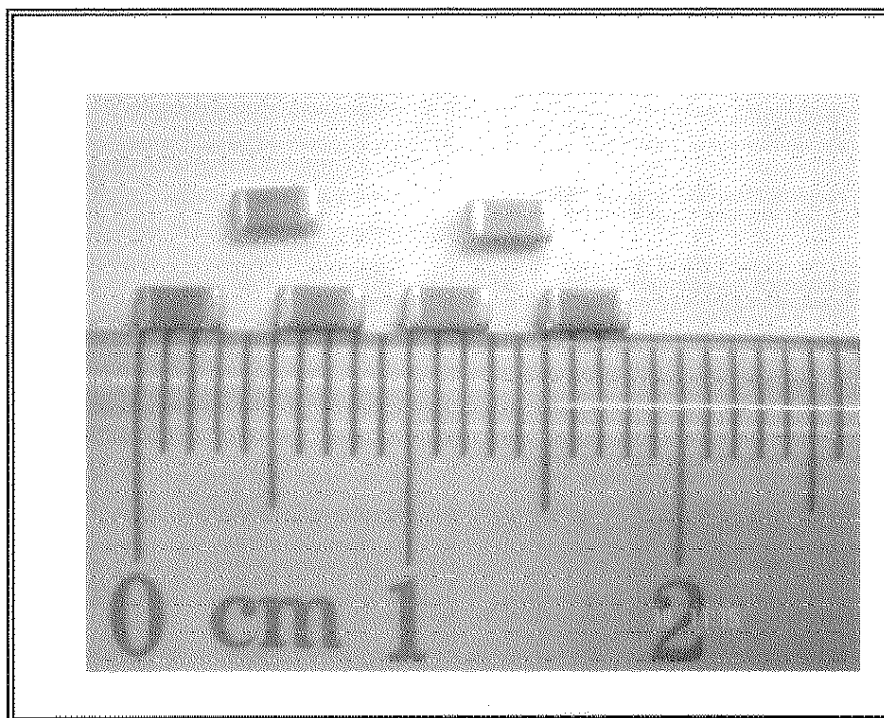
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PHOTO APPENDIX



SGS authenticate the photo on original report only

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Authorized Signature
Ho Ka Ting, Family
Laboratory Executive

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