

**Test Report**

No. 2019727/EC

Date : Jun 30 2005

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MULTICOMP PRODUCTS MANUFACTURED BY
NEC-TOKIN SINGAPORE PTE LTD
180, CECIL STREET, #14-01/04
BANGKOK BANK BUILDING S069546

Report on the submitted sample said to be LOW CURRENT COMMON MODE CHOKE

SGS Job No. : 1742629
Part Description : SU10V Series
Buyer : PREMIER FARNELL ASIA PTE LTD
Supplier : NEC-TOKIN SINGAPORE PTE LTD
Sample Receiving Date : APR 15 2005
Testing Period : APR 15-25 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 on the submitted sample.
- 3) To determine the Mercury Content on the submitted sample.
- 4) To determine the Hexavalent Chromium Content on the submitted sample.
- 5) To determine the Cadmium, Lead and Mercury content in the submitted metal sample.
- 6) Determination of PBBs (Polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1) As specified in BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).

- 2) As specified in EPA Method 3050B. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
- 3) As specified in EPA Method 3052. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
- 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) In house method. The sample was digested by acid. Analysis was performed by Atomic Absorption or Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
- 6) With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results : 1-6) Please refer to next page.

Conclusion : 1-6) When tested as specified, the submitted samples comply 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 :

1-5)

Element	1	2	3	Limit of RoHS Consultant Document
Cadmium (Cd)	< 2 ppm	< 2 ppm	< 2 ppm	100 ppm
Lead (Pb)	7 ppm	< 2 ppm	294 ppm	1000 ppm
Mercury (Hg)	< 2 ppm	< 2 ppm	< 2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	< 2 ppm	< 2 ppm	< 2 ppm	1000 ppm

Element	4	5	Limit of RoHS Consultant Document
Cadmium (Cd)	< 2 ppm	< 2 ppm	100 ppm
Lead (Pb)	< 2 ppm	4 ppm	1000 ppm
Mercury (Hg)	< 2 ppm	< 2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	< 2 ppm	< 2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note: < = Less than
ppm = mg/kg
0.01% = 100 ppm

6)

Flame Retardants	1	2	3	Detection Limit	Limit of RoHS Consultant Document
Polybrominated Biphenyls (PBBs)	---	---	---	---	1000 ppm
Monobromobiphenyl	ND	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	ND	5 ppm	--
Decabromobiphenyl	ND	ND	ND	5 ppm	--
Polybrominated Diphenylethers (PBDEs)	---	---	---	---	1000 ppm
Monobromodiphenyl ether	ND	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	ND	5 ppm	--
Nonabromodiphenyl ether	ND	ND	ND	5 ppm	--
Decabromodiphenyl ether	ND	ND	ND	5 ppm	--

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

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Test Results (Cont'd) :

6)

Flame Retardants	4	5	Detection Limit	Limit of RoHS Consultant Document
Polybrominated Biphenyls (PBBs)	---	---	---	1000 ppm
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	--
Polybrominated Diphenylethers (PBDEs)	---	---	---	1000 ppm
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. Black Plastic (Body)
2. Silvery Metal w/ Black Printing (Metal Holder)
3. Silvery Metal (Pin) w/ Silvery Solder
4. Bronze Metal (Wire)
5. Black Magnet

Remark: Photo appendix is included.

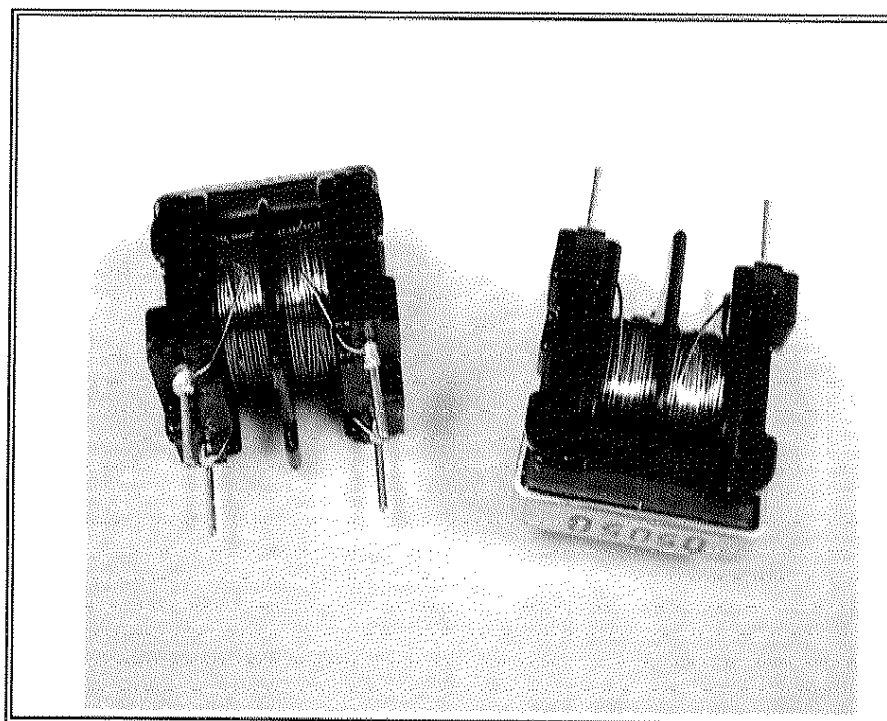
*** End of Report ***

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SGS

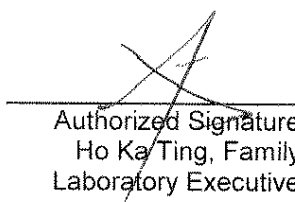
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PHOTO APPENDIX

SGS authenticate the photo on original report only

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Authorized Signature
Ho Ka Ting, Family
Laboratory Executive

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