



Test Report

No. 2045488/EC

Date : Feb 24 2006

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MULTICOMP PRODUCTS MANUFACTURED BY
NELTRON INDUSTRIAL CO LTD
2F, 184, Cheng-Teh Rd, Sec.4, Taipei, Taiwan

Report on the submitted sample said to be Straight & Right Angled D-sub connectors.

SGS Job No. : 1931705
Part Description : 5501, 5502 & 5504 Series
Buyer : PREMIER FARNELL ASIA PTE. LTD.
Supplier : NELTRON INDUSTRIAL CO LTD
Sample Receiving Date : DEC 02 2005
Testing Period : DEC 03 - 12 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 Cadmium, Lead and Mercury content in the submitted metal sample.
- 5) To determine the Hexavalent Chromium Content on the submitted sample.
- 6) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

- 2) With reference to EPA Method 3050B/ 3051/ 3052.
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
- 3) With reference to EPA Method 3051/ 3052.
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
- 4) With reference to 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).
- 5) With reference to EPA Method 3060A & 7196A.
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).
- 6) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

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

Conclusion : When tested as specified, the submitted samples comply with the requirements of Commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/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)

<u>Test Item</u>	<u>1</u>	<u>2</u>	<u>4</u>	<u>5</u>	<u>Detection Limit</u>	<u>Limit</u>
Cadmium (Cd)	ND	ND	3ppm	2ppm	2 ppm	100 ppm
Lead (Pb)	ND	ND	97ppm	866ppm	2 ppm	1000 ppm
Mercury (Hg)	ND	ND	ND	ND	2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	ND	ND	ND	ND	2 ppm	1000 ppm

<u>Test Item</u>	<u>3</u>	<u>Detection Limit</u>	<u>Limit</u>
Cadmium (Cd)	47ppm	2 ppm	100 ppm
Lead (Pb)	2.4%	2 ppm	See Remark
Mercury (Hg)	ND	2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	ND	2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note : 0.01% = 100ppm
ppm = mg/kg
ND = Not Detected
Not detected is reported when the reading is less than detection limit value

Remark : According to client's information, sample 3 is copper alloy and the limit of lead is 4% by weight which is referred to RoHS regulatory (Directive 2002/95/EC of The European Parliament and of The Council of 27 January 2003).



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Test Results (Cont'd) :

6)

Flame Retardants	1	2	3	4	5	Detection Limit	Limit
Polybrominated Biphenyls (Mono – Deca)	< 110ppm	ND	ND	ND	ND	50 ppm	1000 ppm
Monobromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	ND	ND	ND	5 ppm	--
Decabromobiphenyl	64ppm	ND	ND	ND	ND	5 ppm	--
Polybrominated Diphenylethers (Mono – Nona)	< 213ppm	ND	ND	ND	ND	45 ppm	1000 ppm
Monobromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	ND	ND	ND	5 ppm	--
Nonabromodiphenyl ether	172ppm	ND	ND	ND	ND	5 ppm	--
Decabromodiphenyl ether*	709ppm	ND	ND	ND	ND	5 ppm	See remark

Note : ppm = mg/kg
 ND = Not Detected
 Not detected is reported when the reading is less than detection limit value.

Remark: * Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

Sample Description :

1. Black Plastic (Housing)
2. Silvery Metal (Housing Case)
3. Silvery Metal (Screw)
4. Silvery Metal (Housing Case Holder)
5. Golden Metal w/ Silvery Plating (Terminal)

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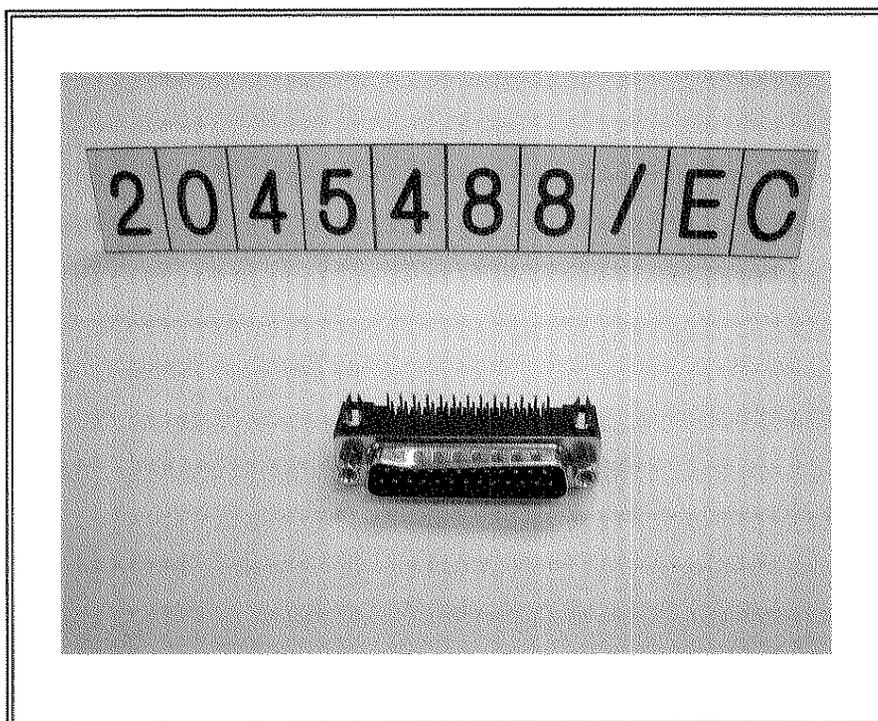
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PHOTO APPENDIX



SGS authenticate the photo on original report only

*** End of Report ***

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