

Certificate of non-use of The Controlled Substances

Company name Littelfuse, L.P. (Subsidiary of Littelfuse, Inc.)

Product Covered Thyristor TO-263 Package (D²-PAK, Non-isolated)

Issue Date May 14, 2007

It is hereby certified by Littelfuse, LP, that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by			
	Product Engineer Littelfuse	ı	p.

(1) Parts, sub-materials and unit parts

This document covers Thyristor TO-263 / D² Package (non-isolated) series products manufactured by Littelfuse, LP. Actual values in this report are taken from Q8025N5 and the result is generally applicable to all Thyristor TO-263 / D² Package series products supplied by Littelfuse, LP. Please see page 2 for the complete list of part number covered by this report.

- < Homogeneous Materials used >
 - Please see figure and table 1 on page 3 and table 2 on page 4 of this document.
- (2) The analytical data on all measurable substances

Please see annex 1 through 13, attached to this document

Remarks:

1. Pb (lead) contained in die bonding solder (item 7 on page 3) and passivation glass (item 6) to be categorized as exempt in RoHS Annex 5 and 7.

Please refer to Annex 14 of this report for the extract of the applicable exemptions of RoHS (EU Directive 2002/95/EC)

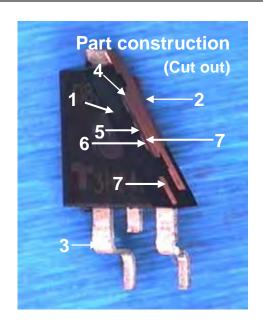
May 14, 2007 Littelfuse, L.P. Page 1



Littelfuse Part Number covered by this report

				y tnis report	
	A	Standard All P/N will be	(Catalog) Pa followed by	P"	
Q2006N4	Q6008N4	QK016NH3	S2016N		
Q2006N5	Q6008N5	QK016NH4	S2025N		
Q2006NH4	Q6008NH4	QK016NH6	S2040N		
Q2008N4	Q6010N4	QK025N5	S2055N		
Q2008N5	Q6010N5	QK025NH6	S4016N		
Q2008NH4	Q6010NH5		S4025N		
Q2010N4	Q6012NH5		S4040N		
Q2010N5	Q6015N5		S4055N		
Q2010NH5	Q6016NH3		S6016N		
Q2012NH5	Q6016NH4		S6025N		
Q2015N5	Q6016NH6		S6040N		
Q2016NH3	Q6025N5		S6055N		
Q2016NH4	Q6025NH6		S8016N		
Q2016NH6	Q6035NH5		S8025N		
Q2025N5	Q8006N5		S8040N		
Q2025NH6	Q8006NH4		S8055N		
Q2035NH5	Q8008N5		SK016N		
Q4006N4	Q8008NH4		SK025N		
Q4006N5	Q8010N4		SK040N		
Q4006NH4	Q8010N5		SK055N		
Q4008N4	Q8010NH5				
Q4008N5	Q8012NH5				
Q4008NH4	Q8015N5				
Q4010N4	Q8016NH3				
Q4010N5	Q8016NH4				
Q4010NH5	Q8016NH6				
Q4012NH5	Q8025N5				
Q4015N5	Q8025NH6				
Q4016NH3	QK006N5				
Q4016NH4	QK006NH4				
Q4016NH6	QK008N5				
Q4025N5	QK008NH4				
Q4025NH6	QK010N4				
Q4035NH5	QK010N5				
Q6006N4	QK010NH5			Any Special P/N that has	
Q6006N5	QK012NH5			base standard P/N listed this table	
Q6006NH4	QK015N5				
				1	







Material Used (where used)

Table 1: Homogeneous Material Used

#	Description	Name of Material	Туре	ICP data
1	Molding compound	epoxy resin	plastic	annex 1.
2	Lead Frame	copper alloy	metal	annex 2.
3	Preform	copper alloy	metal	annex 3 TO-263 uses the same copper material as DO-214. ICP report is from DO-214 Material.
4	Matte-Tin plating	Tin	metal	annex 4, tested as plating cathode
5	Nickel electrode	nickel	metal	annex 5, tested as Nickel-plated wafer.
6	Silicon die	silicon	metal	
7	Passivation glass	glass	glass	annex 6. Pb in this glass is exempted by RoHS Annex 7.
8	Die bonding solder	solder	metal	annex 7. Pb in this solder is exempted by RoHS Annex 5.
9	Cardboard box	cardboard	paper	annex 8, tested with label TO-263 uses the same paper material as DO-214. ICP report is from DO-214 Material.
10	Product label	paper	paper	annex 8, tested with the box (item 9)
11	Plastic Reel		plastic	annex 9. TO-263 uses the same plastic material as DO-214. ICP report is from DO-214 Material.
12	Pocket Tape		plastic	annex 10. TO-263 uses the same plastic material as DO-214. ICP report is from DO-214 Material.
13	Cover Tape	polystyrene	plastic	annex 11. TO-263 uses the same plastic material as DO-214. ICP report is from DO-214 Material.
14	Loading Tube	polyethylene	plastic	annex 12. TO-263 uses the same plastic material as TO-220. ICP report is from TO-220 Material.
15	End Plug	rubber	plastic	annex 13. TO-263 uses the same plastic material as DO-214. ICP report is from TO-220 Material



Table 2: RoHS-regulated substance in raw materials

Components		Analysis Result					
	Weight (typical)	Cd Cadmium	Cr Chromium	Hg Mercury	Pb Lead	PBB	PBDE
As Component Total (Values of Q8025N5, as representative of Thyristor, TO-263 Package)	1,610mg	< 2ppm	< 2ppm	< 2ppm	<10ppm* ² (1.3% ³)	< 5ppm	< 5ppm
Epoxy Resin compound (mixture of phenolix resin, epoxy resin, filler and Sb ₂ O ₃ as fire retardant) See Annex 1 for the detail.	612mg	< 2ppm	< 2ppm	< 2ppm	< 2ppm	< 5ppm	<5 ppm
Lead frame / Preform (Copper Alloy, C14420 / CDA110) See Annex 2 & 3 for the detail.	946mg	< 2ppm	< 2ppm	< 2ppm	< 2ppm		
Outside lead finish (Matte-Tin plated, Sn 100%) See Annex 4 for the detail.	12mg	< 2ppm	< 2ppm	< 2ppm	174.5 ppm		
Silicon Die (Silicon + Ni electrode) See Annex 5 for the detail.	18mg	< 2ppm	< 2ppm	< 2ppm	52ppm* ⁴		
Passivation Glass See Annex 6 for the detail.	0.7mg	< 2ppm	< 2ppm	< 2ppm	39% ^{*5}		
Die Bonding Solder (Pb/Sn=90/10) See Annex 7 for the detail.	22mg	< 2ppm	< 2ppm	< 2ppm	90% * ⁶		
Packing Materials (Box, Reel, Tapes, Plastic bag) See Annex 8-13 for the detail		< 2ppm	< 2ppm	< 2ppm	< 2ppm	< 5ppm	< 5ppm

- *1 Other products may contain equal or less amount of Pb as Q8025N value shown here, but not more than the value shown here.
- *2 Less than 10ppm Pb content overall, <u>excluding</u> Pb from the die bonding solder and the passivation glass on the silicon die.
- *3 1.3wt% or 21mg of Pb (lead) content overall, including the RoHS-exempted use of Pb
- *4 Pb (lead) contained in outside finish and Nickel-plated silicon wafer is <u>not</u> exempted from restriction by RoHS, but considered as process contamination. Littelfuse does not add Pb (lead) intentionally.
- *5 Pb (lead) contained in passivation glass is exempted from restriction by RoHS Annex 5.
- *6 Pb (lead) contained in die bonding solder is exempted from restriction by RoHS Annex 7, first item.

Please refer to Annex 13 of this report for the applicable exemptions of RoHS (EU Directive 2002/95/EC)

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Annex 1: Analysis Result of Molding Compound (Page 1 of 4)



Test Report

Report No: CE/2006/91634 Date: 2006/09/13 Page: 1 of 4

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as:

: MOLDING COMPOUND LS-16S Sample Description

Style/Item No 1003010-16 Manufacturer/Supplier : LITTELFUSE INC.

Name

Country of Destination : TAIWAN Country of Origin : USA

Sample Received 2006/09/06

Testing Period 2006/09/06 TO 2006/09/13

Test Requested With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method (1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-

AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

(5) With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C

with HPLC/DAD/MS.

Test Result(s) - Please see the next page(s) -

Deration Manager gned for and on behalf of SGS TAIWAN LTD.

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Annex 1-1 May 14, 2007 Littelfuse, L.P.



Annex 1: Analysis Result of Molding Compound (Page 2 of 4)



Test Report

Report No: CE/2006/91634 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 2 of 4

Test Result(s)

Test results by chemical method (Unit: mg/kg)

m - 4 74 4-1-	Method	Result		
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	8.0	2	
Mercury (Hg)	(3)	n.d.	2	
Chromium VI (Cr+6)	(4)	n.d.	2	
Total PBBs		n.d.		
Monobromobiphenyl	1 [n.d.	5	
Dibromobiphenyl	1 [n.d.	5	
Tribromobiphenyl	1 [n.d.	- 5	
Tetrabromobiphenyl	1 [n.d.	5	
Pentabromobiphenyl] [n.d.	5	
Hexabromobiphenyl] [n.d.	5	
Heptabromobiphenyl] [n.d.	5	
Octabromobiphenyl] [n.d.	5	
Nonabromobiphenyl] [n.d.	5	
Decabromobiphenyl] [n.d.	5	
Total PBBEs(PBDEs)	(5)	n.d.	-	
Monobromobiphenyl ether] [n.d.	5	
Dibromobiphenyl ether	1 [n.d.	5	
Tribromobiphenyl ether	1 [n.d.	5	
Tetrabromobiphenyl ether	1 [n.d.	5	
Pentabromobiphenyl ether	1 [n.d.	5	
Hexabromobiphenyl ether		n.d.	- 5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether] [n.d.	5	
Nonabromobiphenyl ether] [n.d.	5	
Decabromobiphenyl ether] [n.d.	5	
Total of Mono to Nona(Note 5)] [n.d.		

Test Part Description

PART NAME NO.1 : BLACK LUMP

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Annex 1-2 May 14, 2007 Littelfuse, L.P.



Annex 1: Analysis Result of Molding Compound (Page 3 of 4)



Test Report

Report No: CE/2006/91634 Date: 2006/09/13

LITTELFUSE INC.

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Page: 3 of 4

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sample was totally digested for Pb, Cd, Hg
- (5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (6) "-" = Not Regulated

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Annex 1: Analysis Result of Molding Compound (Page 4 of 4)



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Report No: CE/2006/91634 Date: 2006/09/13

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Annex 2: Analysis Result of Lead frame (Page 1 of 3)



Test Report

Report No: CE/2006/91766 Date: 2006/09/12

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 1 of 3

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The following sample(s) was/were submitted and identified by/on behalf of the client

Sample Description Part No

Manufacturer/Supplier : LITTELFUSE INC.

7001004-05

: LEAD FRAME

Name

Country of Destination : TAIWAN Country of Origin USA Sample Received 2006/9/6 :

2006/9/6 TO 2006/09/12 Testing Period

Test Requested

With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

Test Result(s) - Please see the next page(s) -

peration Manager gned for and on behalf of

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May 14, 2007 Annex 2-1 Littelfuse, L.P.



Annex 2: Analysis Result of Lead frame (Page 2 of 3)



Test Report

Report No: CE/2006/91766 Date: 2006/09/12

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 2 of 3

Test Result(s)

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MADY
	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Chromium VI (Cr+6)	(4)	n.d.	2

Test Part Description

PART NAME NO.1 : COPPER COLORED METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

(2) n.d. = N.D. = ND = Not Detected

(3) MDL = Method Detection Limit

(4) Sample was totally digested for Pb, Cd, Hg

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Annex 2-2 May 14, 2007 Littelfuse, L.P.



Annex 2: Analysis Result of Lead frame (Page 3 of 3)



Test Report

Report No: CE/2006/91766 Date: 2006/09/12

LITTELFUSE INC.

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Annex 2-3 May 14, 2007 Littelfuse, L.P.



Annex 3: Analysis Result of Preform (Page 1 of 3)



Test Report

Report No: CE/2006/91765 Date: 2006/09/12

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 1 of 3

.....

The following sample(s) was/were submitted and identified by/on behalf of the client

Sample Description

7101814-00

Manufacturer/Supplier : LITTELFUSE INC.

Country of Destination

Country of Origin

Name

Part No

: TAIWAN USA

PREFORM

Sample Received Testing Period

2006/9/6 : 2006/9/6 TO 2006/09/12

Test Requested

With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-

AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

Test Result(s) - Please see the next page(s) -

Operation Manager ned for and on behalf of SGS TAIWAN LTD.

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May 14, 2007 Annex 3-1 Littelfuse, L.P.



Annex 3: Analysis Result of Preform (Page 2 of 3)



Test Report

Report No: CE/2006/91765 Date: 2006/09/12 Page: 2 of 3

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Test Result(s)

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	
	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Chromium VI (Cr+6)	(4)	n.d.	2

Test Part Description

PART NAME NO.1 : COPPER COLORED METAL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

(2) n.d. = N.D. = ND = Not Detected

(3) MDL = Method Detection Limit

(4) Sample was totally digested for Pb, Cd, Hg

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Annex 3-2 May 14, 2007 Littelfuse, L.P.



Annex 3: Analysis Result of Preform (Page 3 of 3)



Test Report

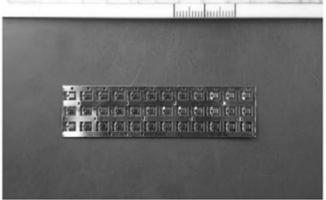
Report No: CE/2006/91765 Date: 2006/09/12

LITTELFUSE INC.

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Annex 4: Analysis Result of Tin plating cathode (page 1 of 3)



Test Report

Report No: CE/2006/96119 Date: 2006/09/29

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 1 of 3

The following sample(s) was/were submitted and identified by/on behalf of the client

Sample Description

Style/Item No

: TIN PLATING CATHODE BALL TIN PLATING CATHODE BALL

Manufacturer/Supplier : LITTELFUSE INC.

Name

Country of Destination : TAIWAN Country of Origin

USA

Sample Received

2006/09/22

Testing Period

2006/09/22 TO 2006/09/29

Test Requested

With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

Test Result(s)

: - Please see the next page(s) -

Operation Manager igned for and on behalf of

SGS TAIWAN LTD.

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May 14, 2007 Annex 4-1 Littelfuse, L.P.



Annex 4: Analysis Result of Tin plating cathode (page 2 of 3)



Test Report

Report No: CE/2006/96119 Date: 2006/09/29 Page: 2 of 3

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Test Result(s)

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	
	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	58.2	2
Mercury (Hg)	(3)	n.d.	2
Chromium VI (Cr+6)	(4)	n.d.	2

Test Part Description

PART NAME NO.1 : SILVER COLORED TIN BALL

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

(2) n.d. = N.D. = ND = Not Detected

(3) MDL = Method Detection Limit

(4) Sample was totally digested for Pb, Cd, Hg

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Annex 4-2 May 14, 2007 Littelfuse, L.P.



Annex 4: Analysis Result of Tin plating cathode (page 3 of 3)



Test Report

Report No: CE/2006/96119 Date: 2006/09/29 LITTELFUSE INC.

Page: 3 of 3

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1(886-2) 22993939 (1886-2) 2299-3237 www.sgs.com.bv

Annex 4-3 May 14, 2007 Littelfuse, L.P.



Annex 5: Analysis Result of Ni-plated Wafer (Page 1 of 3)



Test Report

Report No: CE/2006/91815A Date: 2006/09/14

LITTELFUSE INC.

800 EAST NORTHWEST HIGHWAY DES PLAINES,

IL 60016

Page: 1 of 3

.....

The following sample(s) was/were submitted and identified by/on behalf of the client

Sample Description

SILICON WAFER ELECTRODE

Style/Item No

7101505xx

Manufacturer/Supplier : LITTELFUSE INC.

Name

Country of Destination Country of Origin :

: TAIWAN USA

Sample Received

2006/09/07 :

Testing Period

2006/09/07 TO 2006/09/14

Test Requested

With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-

AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

Test Result(s)

- Please see the next page(s) -

SGS TAIWAN LTD.

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1(886-2) 22993939 (1886-2) 2299-3237 www.sgs.com.bv



Annex 5: Analysis Result of Ni-plated Wafer (Page 2 of 3)



Test Report

Report No: CE/2006/91815A Date: 2006/09/14

LITTELFUSE INC.

800 EAST NORTHWEST HIGHWAY DES PLAINES,

IL 60016

Page: 2 of 3

Test Result(s)

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	
	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	52.4	2
Mercury (Hg)	(3)	n.d.	2
Chromium VI (Cr+6)	(4)	n.d.	2

Test Part Description

PART NAME NO.1 SILICON WAFER WITH NICKEL ELECTRODE

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sample was totally digested for Pb, Cd, Hg
- (5) The report number of CE/2006/91815 is invalid.

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Annex 5-2 May 14, 2007 Littelfuse, L.P.



Annex 5: Analysis Result of Ni-plated Wafer (Page 3 of 3)



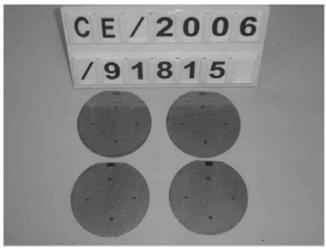
Test Report

Report No: CE/2006/91815A Date: 2006/09/14 LITTELFUSE INC.

800 EAST NORTHWEST HIGHWAY DES PLAINES, IL 60016

Page: 3 of 3





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Annex 6: Analysis Result of Passivation Glass (Page 1 of 3)



Test Report No.: CE/2007/24376 Date: 2007/03/01

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

: PASSIVATION GLASS

Style/Item No. Facility Sample Receiving Date

: 110233800 : TECCOR

: 2007/2/25

Testing Period : 2007/2/25 TO 2007/03/01

Test Requested

: In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

: With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

- (1) Determination of Cadmium by ICP-AES.
- (2) Determination of Lead by ICP-AES.
- (3) Determination of Mercury by ICP-AES.
- (4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s)

Please refer to next page(s).

igned for and on behalf of SGS TAIWAN LTD.

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May 14, 2007 Littelfuse, L.P. Annex 6-1



Annex 6: Analysis Result of Passivation Glass (Page 2 of 3)



Test Report No.: CE/2007/24376 Date: 2007/03/01 Page: 2 of 3

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDL	
Test Item (s):	(Refer to)	No.1	MUL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	359000	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.	-	
Monobromobiphenyl	1 [n.d.	5	
Dibromobiphenyl	1 [n.d.	5	
Tribromobiphenyl] [n.d.	5	
Tetrabromobiphenyl	1 [n.d.	5	
Pentabromobiphenyl	1 Г	n.d.	5	
Hexabromobiphenyl	1 Г	n.d.	5	
Heptabromobiphenyl] [n.d.	5	
Octabromobiphenyl] [n.d.	5	
Nonabromobiphenyl] [n.d.	5	
Decabromobiphenyl] [n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	
Monobromobiphenyl ether	1 [n.d.	5	
Dibromobiphenyl ether] [n.d.	5	
Tribromobiphenyl ether] [n.d.	5	
Tetrabromobiphenyl ether] [n.d.	5	
Pentabromobiphenyl ether] [n.d.	5	
Hexabromobiphenyl ether] [n.d.	5	
Heptabromobiphenyl ether] [n.d.	5	
Octabromobiphenyl ether] [n.d.	5	
Nonabromobiphenyl ether] [n.d.	5	
Decabromobiphenyl ether] [n.d.	5	
Sum of PBDEs (Mono to Deca)] Γ	n.d.	1-1	

TEST PART DESCRIPTION:

WHITE GLASS POWDER

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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Annex 6-2 May 14, 2007 Littelfuse, L.P.



Annex 6: Analysis Result of Passivation Glass (Page 3 of 3)



Test Report No.: CE/2007/24376 Date: 2007/03/01 Page: 3 of 3

LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016



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Annex 6-3 May 14, 2007 Littelfuse, L.P.



Annex 7: Analysis Result of Die Bonding Solder (Page 1 of 3)



Test Report No.: CE/2007/24393 Date: 2007/03/01

LITTELFUSE, INC.

800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description

: SOLDER PASTE

Style/Item No.

: 410284408

Facility

: TECCOR

Sample Receiving Date : 2007/02/16

Testing Period

: 2007/02/16 TO 2007/03/01

Test Requested

: In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

: With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

Test Result(s)

Please refer to next page(s).

Signed for and on behalf of

SGS TAIWAN LTD.

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Annex 7: Analysis Result of Die Bonding Solder (Page 2 of 3)



Test Report No.: CE/2007/24393 Date: 2007/03/01 Page: 2 of 3

LITTELFUSE, INC.

800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDI
Test Item (s):	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2

TEST PART DESCRIPTION:

DK. GRAY SOLDER PASTE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

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Annex 7-2 May 14, 2007 Littelfuse, L.P.



Annex 7: Analysis Result of Die Bonding Solder (Page 3 of 3)



Test Report No.: CE/2007/24393 Date: 2007/03/01 Page: 3 of 3

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Annex 7-3 May 14, 2007 Littelfuse, L.P.



Annex 8: Analysis Result of Packing Box (Page 1 of 4)



Test Report

Report No: CE/2006/91636 Date: 2006/09/13

Page: 1 of 4

.....

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description

REEL BOX

Style/Item No

110233200

Manufacturer/Supplier : LITTELFUSE INC.

Country of Destination

: TAIWAN

Country of Origin Sample Received

USA : : 2006/09/06

Testing Period

: 2006/09/06 TO 2006/09/13

Test Requested

: With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-

(2) With reference to US EPA Method 3050B for Lead

Content. Analysis was performed by ICP-AES. (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by

UV/Vis Spectrometry.

(5) With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C

with HPLC/DAD/MS.

Test Result(s)

- Please see the next page(s) -

ned for and on behalf of SGS TAIWAN LTD.

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Annex 8-1 May 14, 2007 Littelfuse, L.P.



Annex 8: Analysis Result of Packing Box (Page 2 of 4)



Test Report

Report No: CE/2006/91636 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 2 of 4

Test Result(s)

Test results by chemical method (Unit: mg/kg)

W 1-1-	Method	Result	MDL	
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Chromium VI (Cr+6)	(4)	n.d.	2	
Total PBBs		n.d.		
Monobromobiphenyl	1 [n.d.	5	
Dibromobiphenyl	1 [n.d.	5	
Tribromobiphenyl	1 [n.d.	5	
Tetrabromobiphenyl	1 [n.d.	5	
Pentabromobiphenyl	1 [n.d.	5	
Hexabromobiphenyl	1 [n.d.	5	
Heptabromobiphenyl	1 [n.d.	5	
Octabromobiphenyl] [n.d.	5	
Nonabromobiphenyl	1 [n.d.	5	
Decabromobiphenyl	1 [n.d.	5	
Total PBBEs(PBDEs)	(5)	n.d.		
Monobromobiphenyl ether	1 [n.d.	5	
Dibromobiphenyl ether	1 [n.d.	5	
Tribromobiphenyl ether	1 [n.d.	5	
Tetrabromobiphenyl ether	1 [n.d.	- 5	
Pentabromobiphenyl ether	1 [n.d.	- 5	
Hexabromobiphenyl ether	1 [n.d.	5	
Heptabromobiphenyl ether	1 1	n.d.	5	
Octabromobiphenyl ether] [n.d.	5	
Nonabromobiphenyl ether	1 [n.d.	5	
Decabromobiphenyl ether	1 [n.d.	5	
Total of Mono to Nona(Note 5)	1 1	n.d.	-	

Test Part Description

PART NAME NO.1 : BROWN CARTON WITH BLACK PRINTING

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Annex 8-2 May 14, 2007 Littelfuse, L.P.



Annex 8: Analysis Result of Packing Box (Page 3 of 4)



Test Report

Report No: CE/2006/91636 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 3 of 4

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

(2) n.d. = N.D. = ND = Not Detected

(3) MDL = Method Detection Limit

(4) Sample was totally digested for Pb, Cd, Hg

(5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

(6) "-" = Not Regulated

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Annex 8: Analysis Result of Packing Box (Page 4 of 4)



Test Report

Report No: CE/2006/91636 Date: 2006/09/13

LITTELFUSE INC.

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Annex 8-4 May 14, 2007 Littelfuse, L.P.



Annex 9: Analysis Result of Plastic Reel (Page 1 of 4)



Test Report

Report No: CE/2006/91637 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 1 of 4

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description

: 13' PLASTIC REEL : 410296600

Style/Item No : Manufacturer/Supplier :

LITTELFUSE INC.

Name

Country of Destination : TAIWAN Country of Origin : USA

Sample Received : 2006/09/06

Testing Period : 2006/09/06 TO 2006/09/13

Test Requested

: With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

- With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS.

Test Result(s) : - Please see the next page(s) -

Daniel Yen, M.R. / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

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May 14, 2007 Littelfuse, L.P. Annex 9-1



Annex 9: Analysis Result of Plastic Reel (Page 2 of 4)



Test Report

LITTELFUSE INC.

Report No: CE/2006/91637 Date: 2006/09/13

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 2 of 4

Test Result(s)

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result No.1	MDL
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Chromium VI (Cr+6)	(4)	n.d.	2
Total PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Total PBBEs(PBDEs)		n.d.	+
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	.5
Total of Mono to Nona(Note 5)		n.d.	-

Test Part Description

PART NAME NO.1 : WHITE PLASTIC REEL

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10.135-1.74 May Rand, Walkin Industrial Zone, Taipet county, Taiwan.

100.135-1.74 May Rand, Walkin Industrial Zone, Taipet county, Taiwan.

100.055-1.74 May Rand, Walkin Industrial Zone, Taipet county.

Annex 9-2 May 14, 2007 Littelfuse, L.P.



Annex 9: Analysis Result of Plastic Reel (Page 3 of 4)



Test Report

Report No: CE/2006/91637 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 3 of 4

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

- (2) n.d. = N.D. = ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sample was totally digested for Pb, Cd, Hg
- (5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (6) "-" = Not Regulated

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May 14, 2007 Littelfuse, L.P. Annex 9-3



Annex 9: Analysis Result of Plastic Reel (Page 4 of 4)



Test Report

Report No: CE/2006/91637 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 4 of 4



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100.66-2) 22993839 (1886-2) 2299-3327 www.sgs.com/w



Annex 10: Analysis Result of Carrier Tape (page 1 of 4)



Test Report

Report No: CE/2006/91633 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 1 of 4

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description Style/Item No

POCKET TAPE 1102076-03 2

Manufacturer/Supplier : LITTELFUSE INC. Name

Country of Destination : TAIWAN Country of Origin : USA

Sample Received : 2006/09/06

: 2006/09/06 TO 2006/09/13 Testing Period

Test Requested

With reference to the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

- (1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C, Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS.

Test Result(s) - Please see the next page(s) -

Operation Manager gned for and on behalf of SGS TAIWAN LTD.

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Annex 10-1 May 14, 2007 Littelfuse, L.P.



Annex 10: Analysis Result of Carrier Tape (Page 2 of 4)



Test Report

Report No: CE/2006/91633 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 2 of 4

Test Result(s)

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result No.1	MDL
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Chromium VI (Cr+6)	(4)	n.d.	2
Total PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Total PBBEs(PBDEs)		n.d.	+
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Total of Mono to Nona(Note 5)		n.d.	-

Test Part Description

PART NAME NO.1 # BLACK PLASTIC POCKET TAPE

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10.135-1.74 May Rank 4, Wak's industrial Zone, Taipet county, Taiwan.

100.135-1.74 May Rank 4, Wak's industrial Zone, Taipet county, Taiwan.

100.050-1.74 May 100.050-1.75 May 100.050-1.

Annex 10-2 May 14, 2007 Littelfuse, L.P.



Annex 10: Analysis Result of Carrier Tape (Page 3 of 4)



Test Report

Report No: CE/2006/91633 Date: 2006/09/13

Page: 3 of 4

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

(2) n.d. = N.D. = ND = Not Detected

(3) MDL = Method Detection Limit

(4) Sample was totally digested for Pb, Cd, Hg

(5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

(6) "-" = Not Regulated

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10.135-1.74 We have Read, Wak's industrial Zone, Taipet county, Taiwan.

100.255-1.74 We have Read, Wak's industrial Zone, Taipet county, Taiwan.

100.255-1.74 We have Read, Wak's industrial Zone, Taipet county.

Annex 10-3 May 14, 2007 Littelfuse, L.P.



Annex 10: Analysis Result of Carrier Tape (Page 4 of 4)



Test Report

Report No: CE/2006/91633 Date: 2006/09/13

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Page: 4 of 4



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Annex 11: Analysis Result of Cover Tape (Page 1 of 4)



Test Report

LITTELFUSE, INC. 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016 No. : CE/2007/24384
Date : 2007/03/01
Page : 1 of 4

The following sample(s) was/were submitted and identified by/on behalf of the client as :

 Sample Description
 : COVER TAPE

 Style/Item No.
 : 110207802

 Facility
 : TECCOR

 Sample Receiving Date
 : 2007/02/16

Testing Period : 2007/02/16 TO 2007/03/01

Test Result(s) : Please refer to next page(s).

Daniel Yeh, M.R. Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

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Annex 11: Analysis Result of Cover Tape (Page 2 of 4)



Test Report

LITTELFUSE, INC. 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

CE/2007/24384 Date 2007/03/01 Page 2 of 4

Test Result(s)

PART NAME NO.1 TRANSPARENT PLASTIC COVER TAPE

PASS

Test Item (s):	Unit	Method	MDL	Result No.1	Spec.
94/62/EC (Heavy metal content)	7	-	-	***	-
Cadmium (Cd)	mg/kg	With reference to IEC 62321, Ed.1.111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed. 1.111/54/CDV Determination of Lead by ICP-AES.	2	n.d.	-
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed.1111/54/CDV Determination of Mercury by ICP-AES	2	n.d.	
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium by UV/VIs Spectrometry.	2	n.d.	*
Total Lead+Cadmium+Mercury+ Hexavalent Chromium Cr(VI)	mg/kg	Total Lead+Cadmium+Mercury+ Hexavalent Chromium Cr(VI) (94/62/EC)	-	n.d.	100

Test Item (s):	Unit	Method	MDL	Result No.1	Spec
Sum of PBBs				n.d.	~
Monobromobiphenyl			5	n.d.	9
Dibromobiphenyl			5	n.d.	-
Tribrom obiphenyl			5	n.a.	-
Tetrabromobiphenyl		With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	n.d.	-
Pertabromobiphenyl	mg/kg		5	n.d.	
Hexabromobiphenyl			5	n.d.	
Heptabromobiphenyl			5	n.d.	
Octabrom obiphenyl			5	n.d.	-
Nonabromobiphenyl		1	5	n.a.	
Decabromobiphenyl			5	n.d.	*

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Annex 11-2 May 14, 2007 Littelfuse, L.P.



Annex 11: Analysis Result of Cover Tape (Page 3 of 4)



Test Report

LITTELFUSE, INC. 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016 No. CE/2007/24384 Date 2007/03/01 Page :3 of 4

Test Item (s):	Unit	Method	MDL	Result No.1	Spec.
Sum of PBDEs (Mono to Nona) (Note 4)			130	n.d.	-
Monobromobiphenyl ether			5	n.d.	-
Dibromobipheryl ether	1		5	n.d.	-
Tribromobiphenyl ether			5	n.d.	-
Tetrabromobiphenyl ether		With reference to IEC 62321, Ed 1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	n d	-
Pentabromobiphenyl ether	mg/kg		5	n.d.	-
Hexabromoblphenyl ether			5	n.d.	-
Heptabromobiphenyl ether			5	n.d.	
Octabromobiphenyl etner	1		5	n.d	-
Nonabromobiphenyl ether			5	n.d.	-
Decabromobiphenyl ether			5	n.d.	-
Sum of PBDEs (Mono to Deca)			-	n.d.	-

Note: 1 mg/kg = ppm

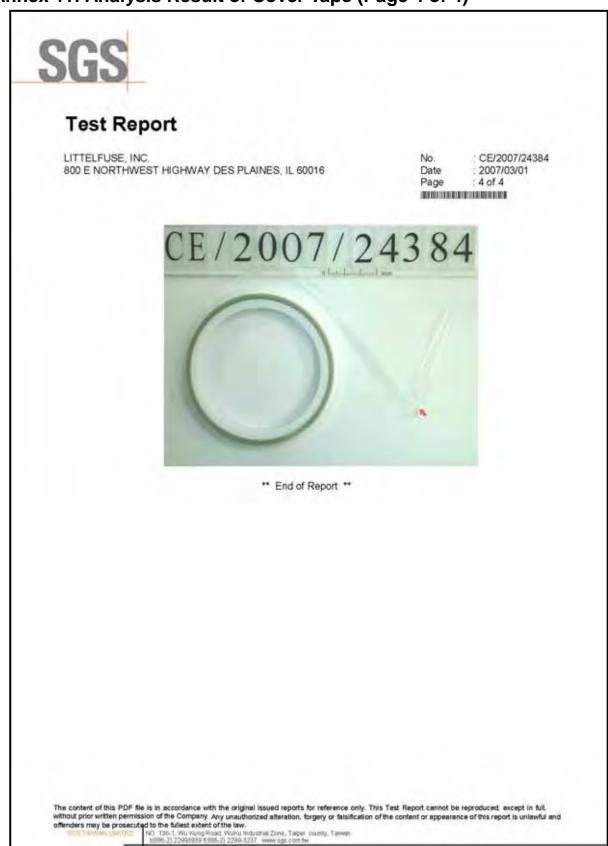
- 2 n.d = Not Detected
- 3. MDL = Method Detection Limit
- 4 According to 2005/717/EC DecaBDE is exempt.
- 5 *- * = Not Conducted
- 6. * * = Not Regulated

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Annex 11-3 May 14, 2007 Littelfuse, L.P.



Annex 11: Analysis Result of Cover Tape (Page 4 of 4)





Annex 12: Analysis Result of Packing Tube (page 1 of 4)



Test Report

LITTELFUSE, INC. 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

: CE/2007/24382 Date : 2007/03/01 Page : 1 of 4

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description LOADING TUBE Style/Item No. 110148600 Facility TECCOR

Sample Receiving Date 2007/02/16

Testing Period 2007/02/16 TO 2007/03/01

Test Result(s) Please refer to next page(s).

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Annex 11-1 May 14, 2007 Littelfuse, L.P.



Annex 12: Analysis Result of Packing Tube (page 2 of 4)



Test Report

LITTELFUSE, INC. 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

: CE/2007/24382 : 2007/03/01 Date Page : 2 of 4 minimum minimum

Test Result(s)

PART NAME NO.1 TRANSPARENT PLASTIC TUBE

PASS

Test Item (s):	Unit	Method	MDL	Result No.1	Spec.
94/62/EC (Heavy metal content)		***			
Cadmium (Cd)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	-
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	n.d.	-
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	•
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.	-
Total Lead+Cadmium+Mercury+ Hexavalent Chromium Cr(VI)	mg/kg	Total Lead+Cadmium+Mercury+ Hexavalent Chromium Cr(VI) (94/62/EC)	-	n.d.	100

Test Item (s):	Unit	Method	MDL	Result No.1	Spec.
Sum of PBBs			-	n.d.	-
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl		1	5	n.d.	
Tribromobiphenyl		With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl	900 000		5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	
Nonabromobiphenyl		1	5	n.d.	-
Decabromobiphenyl			5	n.d.	-

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Annex 11-2 May 14, 2007 Littelfuse, L.P.



Annex 12: Analysis Result of Packing Tube (page 3 of 4)



Test Report

LITTELFUSE, INC. : CE/2007/24382 : 2007/03/01 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016 Date

> Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result No.1	Spec.
Sum of PBDEs (Mono to Nona) (Note 4)				n.d.	-
Monobromobiphenyl ether	1	1	5	n.d.	-
Dibromobiphenyl ether	1	1	5	n.d.	-
Tribromobiphenyl ether	1	1	5	n.d.	
Tetrabromobiphenyl ether	1	With reference to IEC 62321, Ed.1 111/54/CDV. Determination	5	n.d.	-
Pentabromobiphenyl ether	mg/kg		5	n.d.	-
Hexabromobiphenyl ether	1	of PBB and PBDE by GC/MS.	5	n.d.	-
Heptabromobiphenyl ether	1	1	5	n.d.	-
Octabromobiphenyl ether	1		5	n.d.	-
Nonabromobiphenyl ether	1		5	n.d.	-
Decabromobiphenyl ether	1		5	n.d.	-
Sum of PBDEs (Mono to Deca)	1		-	n.d.	-

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "---" = Not Conducted 6. " - " = Not Regulated

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Annex 11-3 May 14, 2007 Littelfuse, L.P.



Annex 12: Analysis Result of Packing Tube (page 4 of 4)



Test Report

LITTELFUSE, INC. 800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

: CE/2007/24382 Date : 2007/03/01 : 4 of 4 Page



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Annex 11-4 May 14, 2007 Littelfuse, L.P.





Annex 13: Analysis Result of End Plug (Page 1 of 3)



Test Report No.: CE/2007/24377 Date: 2007/03/01

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : END PLUG Style/Item No. : 410287500 : TECCOR Facility Sample Receiving Date : 2007/02/16

Testing Period : 2007/02/16 TO 2007/03/01

: In accordance with the RoHS Directive 2002/95/EC, and its **Test Requested**

amendment directives.

: With reference to IEC 62321, Ed.1 111/54/CDV **Test Method**

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) Please refer to next page(s).

igned for and on behalf of SGS TAIWAN LTD.

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Annex 13: Analysis Result of End Plug (Page 2 of 3)



Test Report No.: CE/2007/24377 Date: 2007/03/01 Page: 2 of 3

LITTELFUSE INC.

800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDL	
rest item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.	-	
Monobromobiphenyl	1 [n.d.	5	
Dibromobiphenyl	1 [n.d.	5	
Tribromobiphenyl] [n.d.	5	
Tetrabromobiphenyl	1 [n.d.	5	
Pentabromobiphenyl] [n.d.	5	
Hexabromobiphenyl] [n.d.	5	
Heptabromobiphenyl] [n.d.	5	
Octabromobiphenyl	} {	n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl] [n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether] [n.d.	5	
Tribromobiphenyl ether] [n.d.	5	
Tetrabromobiphenyl ether] [n.d.	5	
Pentabromobiphenyl ether] [n.d.	5	
Hexabromobiphenyl ether] [n.d.	5	
Heptabromobiphenyl ether] [n.d.	5	
Octabromobiphenyl ether] [n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether] [n.d.	5	
Sum of PBDEs (Mono to Deca)	1 [n.d.	-	

TEST PART DESCRIPTION:

GRAY RUBBER END PLUG

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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Annex 13-2 May 14, 2007 Littelfuse, L.P.



Annex 13: Analysis Result of End Plug (Page 3 of 3)



Test Report No.: CE/2007/24377 Date: 2007/03/01 Page: 3 of 3

LITTELFUSE INC. 800 E. NORTHWEST HWY. DES PLAINES, IL 60016



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Annex 13-3 May 14, 2007 Littelfuse, L.P.



Annex 14: Applicable RoHS exemptions

