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旺詮股份有限公司 RALEC ELECTRONIC CORPORATION 高雄市楠梓加工區中二街1號 NO. 1, CENTRAL 2ND STREET, NANTZE EXPORT PROCESSING ZONE, KAOHSIUNG, TAIWAN

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)	: METAL ALLOY LOW-RESISTANCE RESISTOR
樣品型號(Style/Item No.)	: LR/LRE/LRT/LRH/LRA/LRS SERIES
收件日期(Sample Receiving Date)	: 2016/03/04
測試期間(Testing Period)	: 2016/03/04 TO 2016/03/16
送樣廠商(Sample Submitted By)	: 旺詮股份有限公司 (RALEC ELECTRONIC CORPORATION.)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang Ph.D. / Mana Signed for and on behalf SGS Taiwan Limited Chemical Laboratory-Kaohsiung



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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1

混測:METAL ALLOY LOW-RESISTANCE RESISTOR (MIXED ALL PARTS:METAL ALLOY LOW-RESISTANCE RESISTOR)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1	
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電漿 原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP- AES.	2	n.d.	
鉛 / Lead (Pb)	/ Lead (Pb) mg/kg 参考IEC 62321-5: 2013方法,以感應耦合電漿 原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP- AES.				
汞 / Mercury (Hg)	mg/kg 參考IEC 62321-4: 2013方法,以感應耦合電漿 原子發射光譜儀檢測./With reference to IEC 62321-4: 2013 and performed by ICP- AES. by mg/kg 參考IEC 62321: 2008方法,用UV-VIS檢測./ With reference to IEC 62321: 2008 and performed by UV-VIS.		2	n.d.	
六價貉 / Hexavalent Chromium Cr(VI) by alkaline extraction			2	n.d.	
多溴聯苯總和 / Sum of PBBs			-	n.d.	
一溴聯苯 / Monobromobiphenyl			5	n.d.	
二溴聯苯 / Dibromobiphenyl			5	n.d.	
三溴聯苯 / Tribromobiphenyl			5	n.d.	
四溴聯苯 / Tetrabromobiphenyl		參考IEC 62321-6: 2015方法,以氣相層析/質	5	n.d.	
五溴聯苯 / Pentabromobiphenyl	mg/kg	譜儀檢測. / With reference to IEC 62321-	5	n.d.	
六溴聯苯 / Hexabromobiphenyl		6: 2015 and performed by GC/MS.	5	n.d.	
七溴聯苯 / Heptabromobiphenyl			5	n.d.	
八溴聯苯 / Octabromobiphenyl			5	n.d.	
九溴聯苯 / Nonabromobiphenyl			5	n.d.	
十溴聯苯 / Decabromobiphenyl			5	n.d.	

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether		參考IEC 62321-6:2015方法,以氣相層析/質	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	譜儀檢測. / With reference to IEC 62321-	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether		6: 2015 and performed by GC/MS.	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發 射光譜儀檢測錦含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052方法,用感應藕合電漿原子發 射光譜儀檢測磷含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP- AES.	2	85.3
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237- 51-7, 134237-50-6, 134237-52-8))	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質譜 儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1	
sulfonates		參考US EPA 3550C: 2007方法,以液相層析/質 譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	
全氟辛酸(銨) / PFOA (CAS No.: 335-67- 1)	酸(銨) / PFOA (CAS No.: 335-67- mg/kg 参考US EPA 3550C: 2007方法,以液相層析/質 譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.		10	n.d.	
紅磷 / Red phosphorus	**	本測試以熱裂解儀分析. / Analysis was performed by Pyrolyzer-GC/MS.	-	Negative	
鹵素 / Halogen					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.	
鹵素 (氣) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. /	50	n.d.	
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)		g With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	
多苯環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)					
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg	參考AfPS GS 2014:01 PAK方法,以氣相層析/	0.2	n.d.	
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg	質譜儀檢測. / With reference to AfPS GS	0.2	n.d.	
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg	2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.	

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测試項目 (Test Items)			方法偵測 極限値 (MDL)	結果 (Result) NO.1	
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg		0.2	n.d.	
苯駢芴 / Fluoranthene (CAS No.: 206- 44-0)	mg/kg		0.2	n.d.	
ニ苯聠蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg		0.2	n.d.	
Chrysene (CAS No.: 218-01-9)	mg/kg	1	0.2	n.d.	
苯(k)苯聠芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	n.d.	
苯駢菲 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n.d.	
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg	参考AfPS GS 2014:01 PAK方法,以氣相層析/ 質譜儀檢測. / With reference to AfPS GS	0.2	n.d.	
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg	2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.	
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	
葱 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.	
苊烯 / Acenaphthylene (CAS No.: 208- 96-8)	mg/kg		0.2	n.d.	
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n.d.	
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n.d.	
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	
多苯環芳香族化合物18項總和 / Sum of 18 PAHs	mg/kg	-	-	n.d.	

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测試項目 (Test Items)	單位 (Unit)			結果 (Result) NO.1
可塑劑定量分析 / Phthalates				
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg	參考IEC 62321-8 (111/321/CD),以氣相層析 儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was	50	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg	performed by GC/MS.	50	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n.d.

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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

6.紅磷測試由SGS其他實驗室執行 (The Red Phosphorus test was subcontracted to other SGS Laboratory.)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中 不得超過1µg/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)

全氟辛烷磺酸指全氟辛烷磺酸和它的衍生物包括全氟辛烷磺酸,全氟辛基磺醯胺,N-甲基全氟辛烷磺酰胺,N-乙基全氟辛烷磺酰 胺,N-甲基全氟辛基磺酰基氨基乙醇,N-乙基全氟辛基磺酰基氨基乙醇。(PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.)



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<u>参考資料(Reference information) :</u> 依據AfPS GS 2014:01 PAK之要求:產品中最大值為

(Requirement of AfPS GS 2014:01 PAK : Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	材料或 不屬於第1類的材料並可預見與		第3類 (Category 3)			
	意圖放入嘴内的材料或			可預見與皮膚接觸短於30秒(短 期與皮膚接觸),以及不屬於第			
	玩具會與皮膚有所接觸						
	(超過30秒).	皮膚接觸). (Ma		1類或第2類的材料. (Materials not falling			
	(Material indented	falling under	0,				
	to be put in the	with foreseeab		under category			
	mouth or toys with	skin for longe			foreseeable contact to skin		
	intended skin	seconds (long-		for less than 30 seconds (short-term skin contact).)			
	contact (longer than 30 s).)	1					
	50 SJ.)	玩具列於	其他產品列於	玩具列於	其他產品列於		
		2009/48/EC (Toy under	德國產品安全 法 (Other	2009/48/EC (Toy under	德國產品安全 法 (Other		
		2009/48/EC)	products	2009/48/EC)	products		
		2009/48/EC)	under ProdSG)	2005/48/EC)	under ProdSG)		
Naphthalene	< 1	<	2	<	10		
Acenaphthylene							
Acenaphthene							
Fluorene							
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum		
Anthracene							
Fluoranthene							
Pyrene							
Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1		
18項PAH總濃度	< 1	< 5	< 10	< 20	< 50		



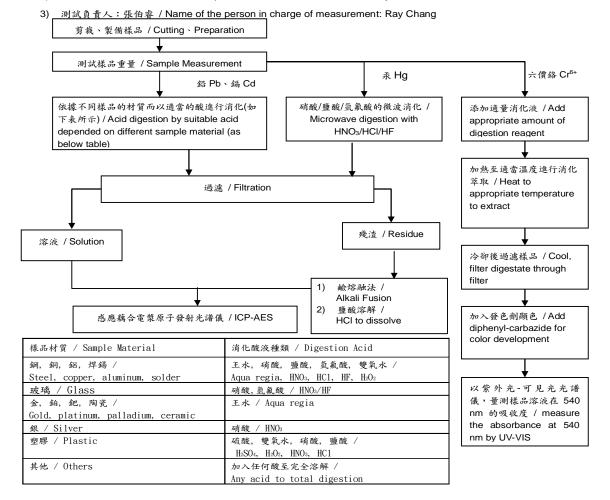
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1) 根據以下的流程圖之條件,樣品已完全溶解。(六價錄測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

2) 测試人員:劉俊宏 / Name of the person who made measurement: Jony Liu



Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic

material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure

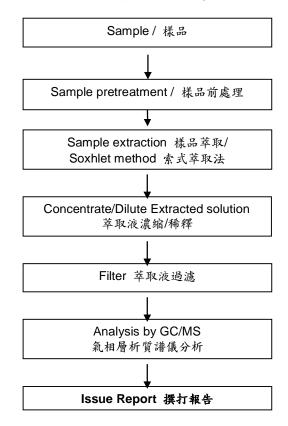
water and heat to boiling.



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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)测试人員:陳威錚/Name of the person who made measurement: Dorothy Chen 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang





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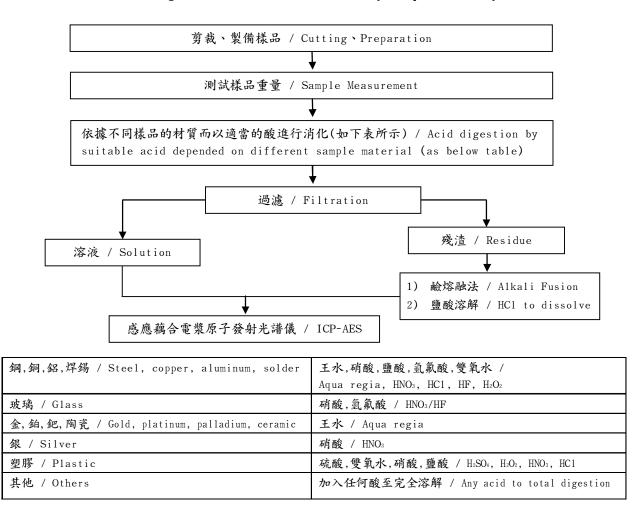
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NO. 1, CENTRAL 2ND STREET, NANTZE EXPORT PROCESSING ZONE, KAOHSIUNG, TAIWAN

- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)





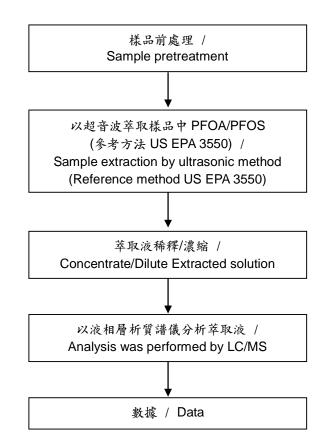
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)测試人員:黄璟瓔 / Name of the person who made measurement: Ginny Huang

2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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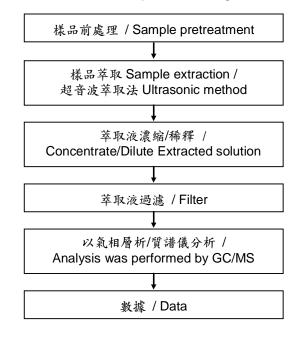


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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 1) 测試人員:陳威錚/ Name of the person who made measurement: Dorothy Chen
- 2) 测試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang





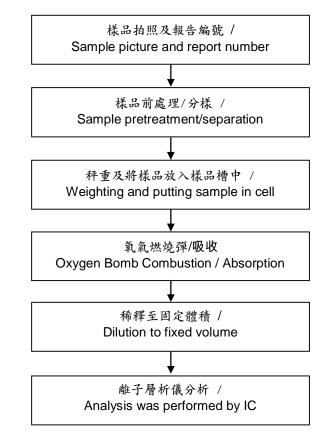
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鹵素分析流程圖 / Analytical flow chart of halogen content

1) 測試人員:洪秀真/Name of the person who made measurement: Jean Hung

2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang





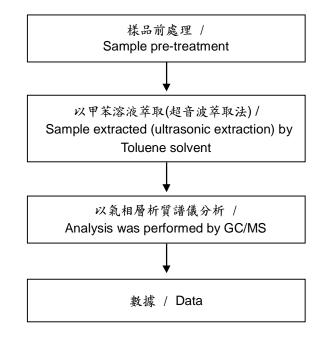
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多苯環芳香族化合物分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

1) 測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen

2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



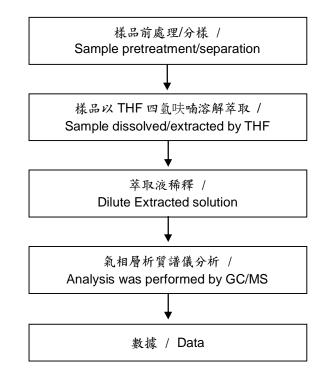


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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



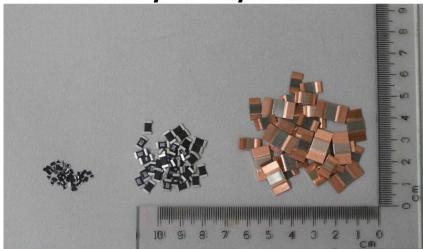


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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)



KA/2016/30331

** 報告結尾(End of Report) **

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